

**RESOLUTION 2025-076**

**A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF NASSAU COUNTY, FLORIDA, ADOPTING THE NASSAU COUNTY WATER SUPPLY FACILITIES WORK PLAN; PROVIDING FOR IMPLEMENTATION AND APPLICABILITY; AND PROVIDING AN EFFECTIVE DATE.**

**WHEREAS**, 163.3177(6)(d)(3) and 163.3177(3)(a)(4), Florida Statutes, requires local governments to assess current and projected water needs and sources for at least a 10-year planning period; to adopt principles and guidelines to be used to coordinate the comprehensive plan with the regional water supply authority (if applicable) and with the applicable regional water supply plan; and identify water supply projects necessary to achieve and maintain adopted level of service standards; and

**WHEREAS**, in accordance with Section 163.3177(6)(c)(4), Florida Statutes, Nassau County is required to adopt an updated Water Supply Facilities Work Plan and related comprehensive plan amendment within eighteen (18) months of approval of the 2023 North Florida Regional Water Supply Plan which was adopted in December, 2023; and

**WHEREAS**, the Nassau County Water Supply Facilities Work Plan was reviewed by the St. Johns Regional Water Management District for compliance; and

**WHEREAS**, the Nassau County Water Supply Facilities Work Plan will be included in the Technical Appendix to the Nassau County 2030 Comprehensive Plan; and

**WHEREAS**, the Board now finds it in the best interest of the County and its citizens to adopt the Nassau County Water Supply Facilities Work Plan.

**NOW, THEREFORE, BE IT RESOVLED** by the Board of County Commissioners of Nassau County, Florida, as follows:

**SECTION 1. FINDINGS.** The above findings are true and correct and are hereby incorporated herein by reference.

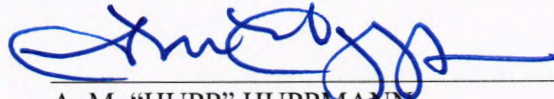
**SECTION 2. ADOPTION OF WORK PLAN.** The Nassau County Water Supply Facilities Work Plan dated June 9, 2025, attached hereto as Appendix “A”, and incorporated herein by reference (the “Plan”) is hereby approved.

**SECTION 3. IMPLEMENTATION AND APPLICABILITY.** The Nassau County Water Supply Facilities Work Plan shall identify and plan for the water supply sources and facilities needed to serve existing and new development within Nassau County.

**SECTION 4. EFFECTIVE DATE.** This Resolution shall take effect immediately upon its passage.

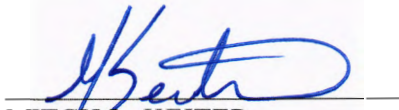
**PASSED AND ADOPTED** this 9th day of June, 2025.

**BOARD OF COUNTY COMMISSIONERS  
NASSAU COUNTY, FLORIDA**



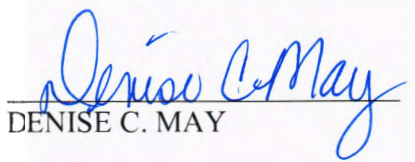
A. M. "HUPP" HUPPMANN  
CHAIRMAN

Attest as to Chairman's Signature:



MITCH L. KEITER  
Its: Ex-Officio Clerk

Approved as to form by the Nassau  
County Attorney:



DENISE C. MAY



# WATER SUPPLY FACILITIES WORK PLAN

## 2025-2040

*Nassau County  
Planning Department*

**Date Submitted:**  
June 9, 2025



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# EXECUTIVE SUMMARY

## Nassau County Water Facilities Work Plan (2025-2040)

### Purpose and Scope

The Nassau County Water Supply Facilities Work Plan aims to identify and plan for the water supply sources and facilities needed to serve existing and new development within Nassau County's jurisdiction. The planning period spans from 2025 to 2040, in collaboration with the County's Comprehensive Plan and existing consumptive use permits. The Work Plan ensures coordination with the St. Johns River Water Management District (SJRWMD) and updates from the North Florida Regional Water Supply Plan (NFRWSP).

### Water Supply Service Agreements

*Suppliers:* City of Fernandina Beach, First Coast Regional Utilities, Inc. (FCRU), Nassau-Amelia Utilities (NAU)/Florida Governmental Utility Authority (FGUA), & Jacksonville Electric Authority (JEA) Water Facilities

### Data & Analysis

*Public Supply Agreements:* JEA, City of Fernandina Beach, NAU, FGUA, & FCRU

*Domestic Self Supply (DSS):* Significant portion of the unincorporated area relies on DSS, with projections indicating an increase in DSS population and water demand.

*Potable Water Demand, Supply, & Facility Capacity:* The County has adequate potable water supply and facility capacity to accommodate the existing population and projected growth within NAU service area throughout the planning period.

*Non-Potable Water Supply:* FCRU (in 2030), NAU, and JEA provide non-potable (reuse/reclaimed) water services.

### Water Supply Level of Service & Facility Concurrency

The County ensures that adequate water supplies and facilities are available to serve new development by the time of occupancy. The County must comply with legislative requirements to ensure water supply availability before issuing building permits.

### Water Supply and Facility Capacity Projects

JEA has several projects to expand reclaimed water systems and storage facilities within Nassau County, and FCRU has one proposed project to provide water and sewer services that is anticipated around 2030.

### Water Conservation & Non-Potable Water (Reuse) Practices

Nassau County promotes water conservation, green development practices, and collaboration with the Water Management District for emergency conservation enforcement. The County also encourages the use of reclaimed water for irrigation and other practical applications.

### Comprehensive Plan Policies

Nassau County maintains requirements geared toward the promotion of sustainable water supply through detailed policies related to water supply agreements, reuse practices, water conservation, and source protection.

## 1.0 INTRODUCTION

According to the Community Planning Act and the Water Resources Act, Sections 373.709 and 163.3177(6)(c)3, Florida Statutes (F.S.), each local government is required to amend its local government comprehensive plan to update to include a minimum 10-year water supply facilities work plan following the approval of an updated regional water supply plan (NFRWSP, January 2017). The mandated 10-year Water Supply Facilities Work Plan is specifically developed to address the following:

- Projects for water supply;
- Projects for water supply treatment, storage, and distribution facilities; and
- Water conservation and reuse.

The purpose of the Nassau County Water Supply Facilities Work Plan (Work Plan) and related Comprehensive Plan amendment is to identify and plan for the water supply sources and facilities needed to serve existing and new development within the County's jurisdiction for the next 10 years. These plans are reviewed and approved by the Florida Department of Commerce and the SJRMWD. This Work Plan includes an evaluation of the present and projected growth and water demand as well as an analysis of the existing production/treatment facilities and their capacities to meet the County's existing and projected water demands for a 10-year planning period.

Section 163.3177(6)(c)(3), Florida Statutes, requires local governments within areas projected to have insufficient supplies of water from traditional sources to amend their comprehensive plan to incorporate the alternative water supply project or projects selected by the local government from those identified in the regional water supply plan pursuant to Section 373.709(2)(a), Florida Statutes.

## 2.0 BACKGROUND

### 2.1 Location

Nassau County is located in Northeast Florida with a land area of 648.7 square miles. Nassau County is bordered by Duval County, Florida, Charlton County, Georgia, Baker County, Florida, and Camden County, Georgia. A location map of the County is provided as Figure 1. The county's population was approximately 90,352 residents<sup>1</sup>; however, it is increasing with a recent Bureau of Economic and Business Research (BEBR)<sup>2</sup> estimate showing a population in excess of 100,000. Figure 2 provides a summary of population data and statistics.

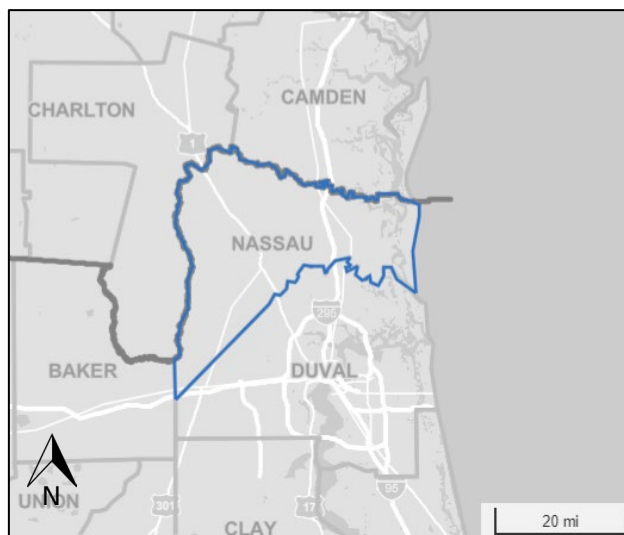


Figure 1- Location Map

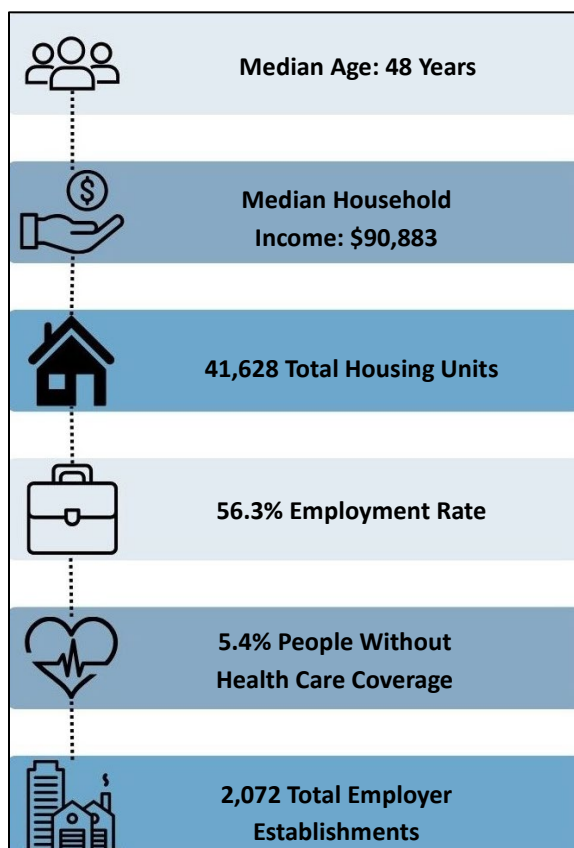


Figure 2 - Nassau County Quick Facts <sup>1</sup>

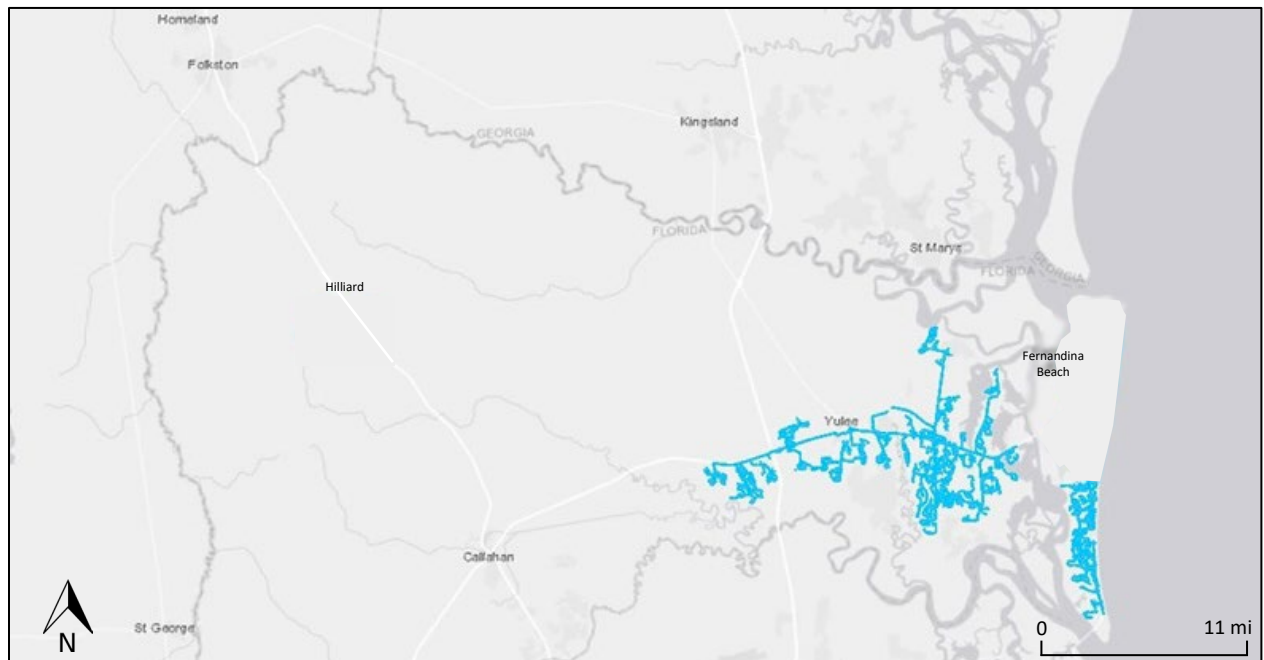
The County contains three incorporated areas: the Town of Callahan, the Town of Hilliard, and the City of Fernandina Beach. The incorporated areas are not analyzed for this Work Plan. The Work Plan planning period of 2025-2040 was determined after a review of the following factors: (a) existing consumptive use permits that will expire between 04/21/2023-04/21/2043; and (b) the Comprehensive Plan is proposed, at a minimum to be adopted through 2045. In addition, in accordance with Section 163.3177(6)(c), and Section 163.3177(4)(a), Florida Statutes, the County must ensure coordination of its comprehensive plan with the plans of SJRWMD. Therefore, if SJRWMD updates its NFRWSP and affects the County, it will be necessary to update the Work Plan during the planning period. Nassau County Potable Water Sub-Element (WAT) Policy WAT.02.02 and related policies contain enabling language to ensure coordination with SJRWMD's plans.

<sup>1</sup> Source: [www.census.gov](https://www.census.gov), 2018-2022 for Nassau County

<sup>2</sup> Source: [estimates\\_2024.pdf](#), 2024 BEBR Florida Estimates of Population

## 2.2 Service Area

Water supply lines are provided throughout the most populated areas in the County. Figure 3 depicts the existing water supply lines throughout unincorporated Nassau County. Water supply lines were identified in the City of Fernandina Beach, Yulee, the Wildlight development, and the Town of Hilliard. Much of the County utilizes self-provided well water. Water is supplied by the City of Fernandina Beach, JEA, and NAU with plans to add service from FCRU around 2030.



*Figure 3 - Water Supply Lines*

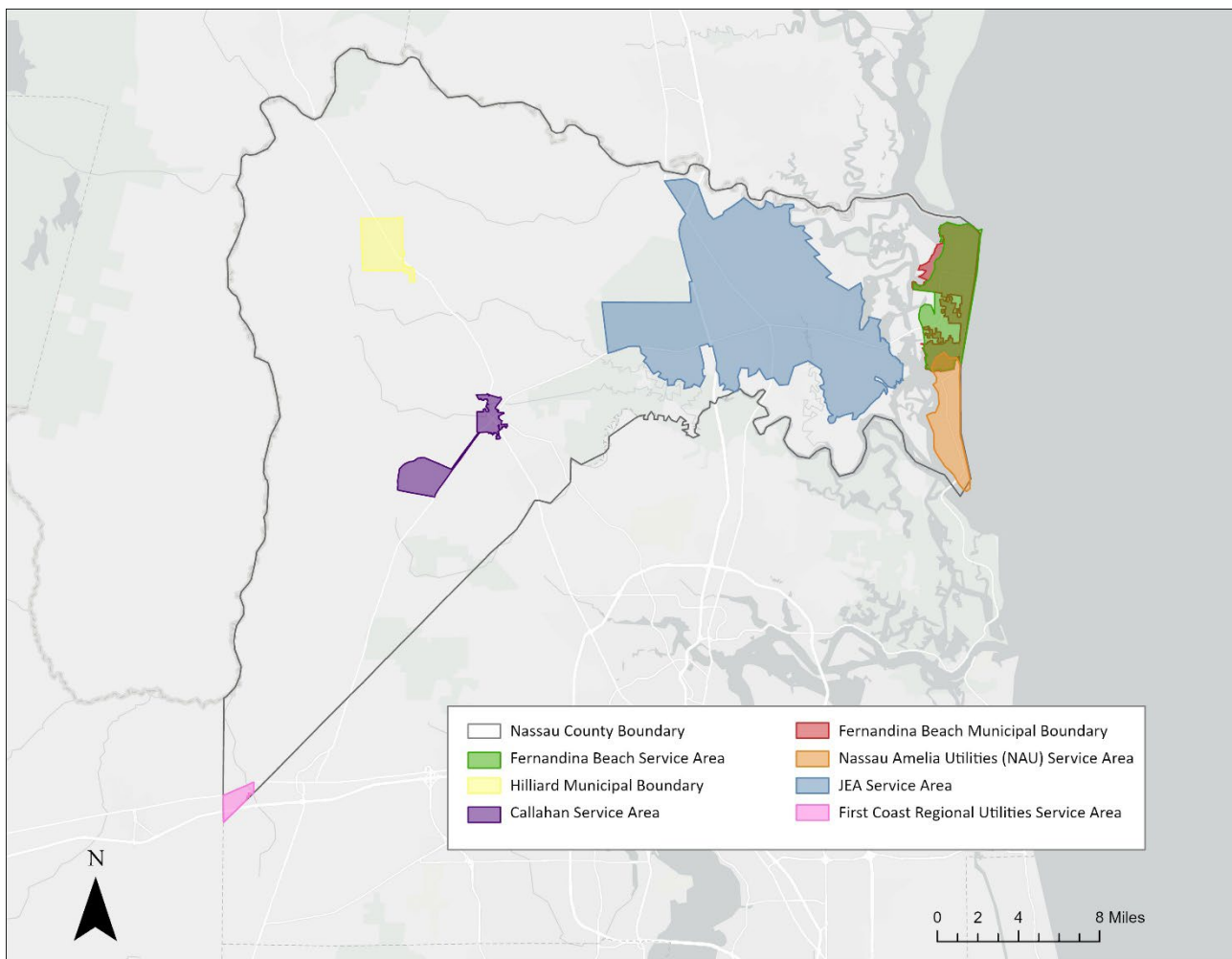
## 2.3 Potable Water Supplier Service Areas

The following entities provide potable water service to unincorporated areas:

- **City of Fernandina Beach**
- **FCRU**
- **NAU / FGUA**
- **JEA Water Facilities**

JEA, Fernandina Beach, and FCRU are the entities financially responsible for related capital improvements within their respective service areas. The County owns NAU and has an interlocal agreement with FGUA for management, operation, and maintenance services to the NAU water and wastewater system. In accordance with the agreement, the County and/or FGUA are responsible for capital improvements related to NAU services.

Figure 4 contains a map showing the service areas of these water suppliers.



*Figure 4 - Nassau County Water Supplier Service Areas*

## 3.0 DATA & ANALYSIS

Water use is defined as current or historic levels of water withdrawn from fresh (ground and surface) water sources and is expressed in an average of a million gallons per day (mgd) unless otherwise noted. Water demand projections are estimates of the amount of water that will be needed in the future (withdrawn from freshwater sources) to meet the needs of increasing population and to meet the needs of the aforementioned water use categories. These projections are expressed in average mgd unless otherwise noted. Reclaimed water is treated wastewater that has received at least secondary treatment and basic disinfection and is expressed in average mgd unless otherwise noted.

### *3.1 Potable Water Supply*

Groundwater is the primary water source for Nassau County. Water supply is drawn from the Floridan Aquifer, one of the most productive aquifers in the world, with high quality water. The Floridan Aquifer covers most of Florida and parts of Georgia and South Carolina. Groundwater wells are used to extract

water from the Floridan Aquifer to supply potable water to customers. The underground water reservoir spans about 100,000 square miles and consists of wells, aerators, ground storage tanks, water quality treatment and pH control and chlorination facilities.

The Floridan Aquifer is expected to meet the County's future needs; if partners, like JEA, continue their three-part program and ground water quality program. The three-part program is the basis of JEA's water capital improvement plan and includes: (i) continued expansion of the reuse system, (ii) measured conservation program and (iii) water transfers from areas with a higher supply on JEA's north grid to areas with a lower supply on JEA's south grid.

JEA has also implemented a groundwater quality management program to mitigate the effects of (non-lateral) saltwater intrusion into specific wells on the system's south grid that includes routine well monitoring, back plugging of specific wells, and reducing or replacing wells that show continued increases in chlorides. Total finished water storage capacity of the water system is 74 million gallons. All water storage facilities are located at the various water treatment plants, including two repump facilities. The water system does not utilize elevated storage tanks. JEA also uses reclaimed water for irrigation where feasible<sup>3</sup>.

**Appendix A** displays the County's current Consumptive Use Permit (CUP #50087-8) that expires in 2043. The CUP authorizes the use of 730.00 million gallons per year (mg/y) (2.00 million gallons per day (mgd), annual average) of groundwater from the Upper Floridan aquifer for public supply use through 2043. **Table 2** provides a breakdown of each of the service areas' Consumptive Use Permits.

### ***3.1.1 Public Supply***

#### **A. Jacksonville Electric Authority (JEA)**

Pursuant to a 30-year interlocal agreement with Nassau County, JEA made an up-front payment in December 2001 to the county which JEA expected to realize in providing the sale of water and wastewater services (excluding reclaimed water) for the next 10 years. Under the terms of the interlocal agreement, Nassau County granted JEA the right to: 1) provide water and wastewater service to those customers in an acquired franchise area within Nassau County and 2) provide water and wastewater service with approval to additional areas in the county not currently served by either Nassau County or other water and wastewater utilities.

#### **B. City of Fernandina Beach**

The City of Fernandina Beach also provides potable water and sanitary sewer services to a portion of the unincorporated area located on Amelia Island.

Nassau County 2030 Comprehensive Plan Policies RC.02.02 and RC.02.04 provide enabling language relative to interlocal agreements and the provision of potable water, sanitary sewer,

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<sup>3</sup> Source: <https://cityclts.coj.net/docs/2019-0036/Original%20Text/2019-36%20LUZ%20Rev%20Exh%202.pdf>, COJ Water Supply Facility Work Plan 2018-2028

and other services to unincorporated areas. In addition, these policies also provide enabling language relative to establishing an agreement with Fernandina Beach.

In addition, because JEA and the City of Fernandina Beach provide water service to some of the unincorporated area, it is important for the County to monitor and participate, as necessary, in their water supply planning processes to ensure these water suppliers account for the water needs of the respective unincorporated area. Nassau County 2030 Comprehensive Plan Regional Coordination Element Policy RC.02.02 contains enabling language for this coordination.

#### **C. Nassau Amelia Utilities (NAU)**

NAU operates a water treatment plant (WTP) with a capacity of 4.06 million mgd. This WTP serves the south end of Amelia Island in Nassau County, Florida. Additionally, a significant portion of the unincorporated area relies on domestic self-supply to meet water needs, and there are no current plans to remove private wells or connect septic tank properties to a centralized system. Nassau County is financially responsible for capital improvements within the NAU service area.

#### **D. Florida Governmental Utility Authority (FGUA)**

Nassau County has an Interlocal Agreement with FGUA for water and wastewater utility capital projects, related grant/loan administration, and special assessment services. A copy of the agreement is attached in **Appendix B**. FGUA is the managing organization of NAU.

#### **E. First Coast Regional Utilities, Inc. (FCRU)**

The Utility's application appears to be consistent with the Nassau County 2030 Comprehensive Plan in that FCRU has committed to abide by the level of service requirements of the Potable Water sub-element, Objective WAT.01, and the Sanitary Sewer sub-element, Objective SEW.01, of the plan. Therefore, the Utility's application is consistent with the Nassau County 2030 Comprehensive Plan.

### ***3.1.2 Domestic Self Supply***

In addition to water supply through utility agencies, a significant portion of the unincorporated area utilizes self-supply (well) to meet water demand. Below are domestic self-supply projections based on synthesizing data from the 2020-2045 NFRWSP for Nassau County, prepared by the SJRWMD and the latest BEBR projections. The domestic self-supply population and corresponding water demand is expected to increase over the planning period.

Table 1 summarizes countywide, domestic self-supply, and public supply population projections. The NFRWSP was used to estimate proportions of self-supply and public supply users relative to the overall population, while the latest BEBR report was used to estimate population projections. For the information provided in Table 1, refer to the excerpts from NFRWSP dated in December 2023 and BEBR report dated in January 2024 in **Appendix C**.

*Table 1 - Water Supply Projections<sup>1</sup>*

	2025	2030	2035	2040
<i>Countywide Population</i>	114,200	131,700	148,000	163,200
<i>District Population</i>	93,997	113,633	131,353	149,553
<i>Self-Supply Population</i>	13,728	15,798	18,227	20,434
<i>Public Supply Population</i>	80,269	97,835	113,126	129,119

1) Based on NFRWSP (2020-2045) and BEBR 2024 interpolation (Appendix C)

2) Includes incorporated areas

3) BEBR County Population includes institutional

4) District Population in SJRWMD only includes public supply and domestic self-supply

The only well phase out project in the County is the Nassau County American Beach Well and Septic Phase Out project, which was recently completed in 2024. This project aimed to provide municipal water and sewer utilities to the American Beach community. It involved installing 2.5 miles of sanitary sewer, 52 manholes, two sewer lift stations, 2.5 miles of water main, seven fire hydrants, and eight automatic flushing assemblies.

Nassau County 2030 Comprehensive Plan Policies SEW.03.05, SEW.03.07, and SEW.04.03 document countywide plans for appropriately monitoring the safe use of septic tanks.

### *3.2 Potable Water Demand, Supply, and Facility Capacity*

Table 2 contains both historical and projected populations water demand for the County's potable water service area. The table shows Nassau County's CUP allocation for both public and private entities (per existing SJRWMD Issued CUP Permit data) and WTP facility data.

*Table 2 - Service Area Projections*

Supplier		2023	2025	2030	2035	2040
<b>City of Fernandina Beach<sup>1</sup></b>	<i>Service Population<sup>2</sup></i>	22,554	23,315	25,142	25,910	26,687
	<i>Demand (MGD)</i>	3.95	4.08	4.40	4.53	4.67
	<i>CUP Allocation (MGD)</i>	6.58	6.58	6.58	6.58	6.58
	<i>WTP Capacity (MGD)</i>	18.2	18.2	18.2	18.2	18.2
<b>FCRU<sup>3</sup></b>	<i>Nassau County Service Population</i>	0	0	0	0	0
	<i>Demand (MGD)</i>	0	0	0	0	0
	<i>CUP Allocation (MGD)</i>	0.96	0.96	0.96	0.96	0.96
	<i>WTP Capacity (MGD)</i>	0	0	1.0	2.0	2.0

<b>NAU<sup>4</sup></b>	<i>Nassau County Service Population</i>	10,397	10,861	11,843	12,655	13,381
	<i>Demand (MGD)</i>	1.53	1.6	1.75	1.87	1.97
	<i>CUP Allocation (MGD)</i>	2.0	2.0	2.0	2.0	2.0
	<i>WTP Capacity (MGD)</i>	4.1	4.1	4.1	4.1	4.1
<b>JEA<sup>5</sup></b>	<i>Nassau County Service Population<sup>6</sup></i>	29,626	33,980	44,865	55,749	66,634
	<i>Demand (MGD)<sup>7</sup></i>	4.67	4.35	5.33	6.32	7.30
	<i>CUP Allocation (MGD)<sup>8</sup></i>	4.22	4.22	4.22	TBD	TBD
	<i>WTP Capacity (MGD)<sup>9</sup></i>	12.22	12.22	14.47	14.47	14.47
<b>Total</b>	<i>Service Population</i>	62,577	68,156	81,850	94,314	106,702
	<i>Demand (MGD)</i>	7.85	8.05	8.24	8.26	13.9
	<i>CUP Allocation (MGD)</i>	13.76	13.76	13.76	13.76	13.76
	<i>WTP Capacity (MGD)</i>	34.52	34.52	37.77	38.77	38.77

<sup>1</sup> Interpolated from City of Fernandina Beach 2020 Water Supply Facilities Work Plan.

<sup>2</sup>City of Fernandina Beach supply includes incorporated and unincorporated areas; data specific to unincorporated areas is unavailable.

<sup>3</sup>Data derived from JEA v. First Coast Regional Utilities Case No. 1D21-579

<sup>4</sup>Data provided by FGUA/NAU and interpolated for subject years.

<sup>5</sup>Data provided by JEA and interpolated for subject years.

<sup>6</sup>Population estimated using the persons per household factor of 2.49 x number of connections. Source of persons per household is [www.census.gov](https://www.census.gov), 2018-2022 for Nassau County.

<sup>7</sup>Total water demand includes potable water and irrigation demands for residential, commercial, and retail service types. Reported as million gallons per day, annual average daily flow. Drop in demand from FY23 to FY24 is due to transfer of ~1,400 potable irrigation customers to reclaimed water.

<sup>8</sup>Current CUP expires 2031, future allocation has not been determined, limit is based on AADF, annual withdrawals are allowed to exceed CUP allocation by up to 20% (limit of 5.06 mgd).

<sup>9</sup>WTP Capacity is Maximum per Day.

Table 2 demonstrates the County has adequate potable water supply and facility capacity to accommodate the existing population and projected growth within the designated service areas throughout the planning period.

Nassau County is committed to the proper management of water resources and to providing residents with a sustainable water supply. Currently, the County suppliers operate under the following consumptive use permits:

- City of Fernandina Beach – CUP No. 122
- FCRU – CUP No. 213110
- FGUA (on behalf of NAU in **Appendix A**) – CUP No. 50087
- JEA – CUP No. 88271

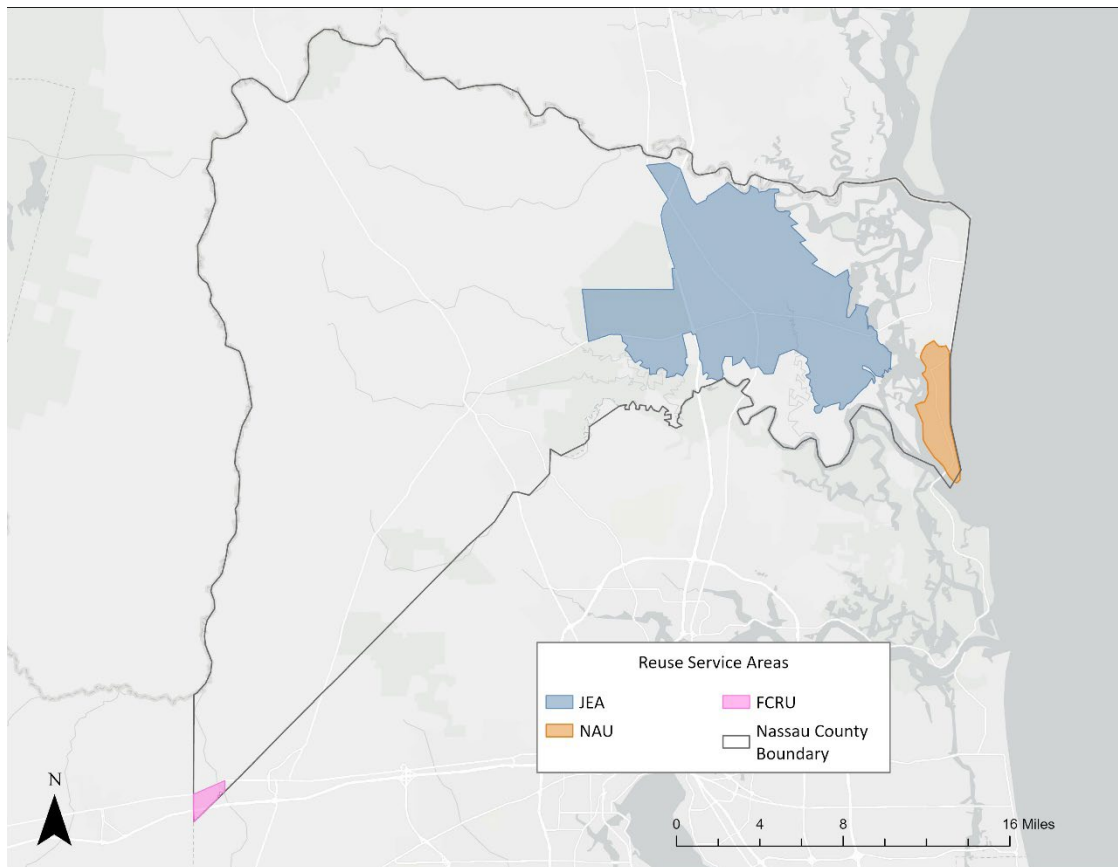
All active Consumptive Use Permits thresholds and expiration dates within Nassau County are provided in **Appendix D**.

### 3.3 Non-potable Water Supply

The following entities provide or are planned to provide non-potable water (reuse/reclaimed) service to unincorporated Nassau County:

- FCRU (2030)
- NAU
- JEA

Each entity is individually financially responsible for capital improvements related to reuse services within their respective areas. Figure 5 below contains a map showing JEA, NAU, and FCRU reuse service areas within Nassau County.



*Figure 5 - Reuse Service Areas in Nassau County*

NAU operates a 0.95 mgd wastewater treatment plant. One hundred percent of the discharge of wastewater from the wastewater treatment plant (WWTP) is sent to Long Point, Amelia Link and Ocean Links golf courses as reclaimed water for irrigation. In 2020, the average daily flow is 0.886 mgd.

JEA operates the Nassau Regional Water Reclamation Facility (WRF), a 2.0 mgd wastewater treatment plant within Nassau County, in accordance with the County's interlocal agreement with JEA.

FCRU WWTP design is anticipated to be based on an ADF of 1.0 mgd and will be expandable up to 4.0 mgd. The wastewater will be treated using a biological treatment system based on sequencing batch reactor technology.

## 4.0 WATER SUPPLY LEVEL OF SERVICE & FACILITY CONCURRENCY

### *4.1 Potable Water Level of Service*

The County is ultimately responsible for authorizing development within unincorporated areas. All future development and redevelopment in unincorporated areas of the County shall be compatible with the adopted level of service (LOS) standards. However, because the County relies on regional utility provider JEA and, in some cases, the City of Fernandina Beach to provide potable water service to unincorporated areas, it is important for the County's water supply and facility concurrency system to be coordinated and consistent with the requirements of its water suppliers.

Nassau County 2030 Comprehensive Plan Policy WAT.01.01: The following level of service (LOS) standards are hereby adopted for regional potable water supply systems serving the unincorporated areas of the County and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development planning to use such systems.

Nassau County 2030 Comprehensive Plan Policy CI.02.01: Nassau County adopts the Level of Service (LOS) standards for public facilities and services as shown below. The County may not issue a development order or permit those results in a reduction in the level of service (LOS) for the affected public facilities below the minimum level of services established in this plan. Public facilities and services must meet or exceed the level of service standards established in this plan and must be available when needed for the development as specified in this plan.

Nassau County 2030 Comprehensive Plan Policies WAT.01.01 and CI.02.01 contain enabling language that establishes the County's potable water level of service. These policies also contain LOS standards relative to NAU and JEA.

The current potable water demand per capita per supplier is provided below:

- City of Fernandina Beach: 175 gpd per capita
- FCRU: 270 gpd per ERC<sup>1</sup>
- JEA: 100.0 gpd per capita
- NAU: 81.0 gpd per capita

<sup>1</sup>Anticipated upon 2030 opening

## 4.2 Water Supply and Facility Concurrency

The current legislative requirements for concurrency [i.e., Section 163.3180(2), F.S.] requires the County's comprehensive plan and land development regulations to ensure that adequate water supplies and facilities are available to serve new development no later than the date on which the County anticipates issuing a certificate of occupancy. In addition, the County must, prior to the approval of a building permit, determine whether adequate water supplies will be available to serve the development by the anticipated issuance date of the certificate of occupancy. Policy CI.02.05 provides enabling language for water supply and facility concurrency, and addresses the requirements of Section 163.3180(2), F.S.

## 5.0 WATER SUPPLY & FACILITY CAPACITY PROJECTS- ALTERNATIVE & TRADITIONAL; POTABLE & NON-POTABLE

### 5.1 JEA Projects in Nassau County

JEA has several projects identified in the 2023 NFRWSP and JEA Water/Wastewater Five Year Capital Plan Project List that are located within Nassau. These projects are summarized below in Table 3.

*Table 3 - JEA Water Supply Projects in Nassau County*

<b>Project #</b>	<b>Status</b>	<b>Project Description</b>
100-72	Planned	Nassau - Chester Rd - Nassau WRF to Heron Isles Pkwy - FM
100-73	Planned	Nassau - Miner Rd - Radio Ave to Nassau WRF - FM
100-74	Planned	Nassau - Wm Burgess - Harts Rd to Radio Ave - FM
101-67	Planned	Nassau - Wm Burgess - West Nassau WRF to SR 200 - W
130-02	Construction	Lofton Oaks WTP - Improvements
137-08	Construction	Nassau Regional WTP - Well 1 Deepening
166-22S	Construction	2021-3007 - Blackrock Cove Offsite - S
166-22W	Construction	2021-3007 - Blackrock Cove Offsite - W
166-23S	Construction	2021-0556 - Headwaters at Lofton Creek - S
166-35R	Planned	Wildlight - 2023-2311 Chester Road Widening - R
166-35S	Planned	Wildlight - 2023-2311 Chester Road Widening - S
166-35W	Planned	Wildlight - 2023-2311 Chester Road Widening - W
167-68W	Construction	2021-4949 - Tributary Units 10 and 15- W
167-69W	Construction	2021-5316 - Edwards Road Phase 1 and 2 Water Main- W
167-70W	Construction	2022-1188-Pirates Bluff Offsite - W
167-71W	Planned	2022-1849-McGirts Creek Offsite - W
167-72R	Construction	2023-3620 Wildlight North South Arterial Phase 2 - R
167-72S	Construction	2023-3620 Wildlight North South Arterial Phase 2 - FM
167-72W	Construction	2023-3620 Wildlight North South Arterial Phase 2 - W
180-55	Construction	Nassau - Radio Ave - Wastewater Booster Pump Station
180-77*	Construction	Nassau County Headworks Impacted Pump Station Project Upgrade*
180-79	Planned	Nassau - US17 - Peak Shaving Pumpstation - P
182-116S	Construction	JP - Nassau - Wm Burgess Blvd - US 17 to Miner Rd - New - FM
182-116W	Construction	JP - Nassau - Wm Burgess Blvd - US 17 to Miner Rd - New - W
182-127R	Construction	JP - Nassau - Chester Rd - David Hallman to Pages Dairy Rd - R
182-127S	Construction	JP - Nassau - Chester Rd - David Hallman to Pages Dairy Rd - FM
182-127W	Construction	JP - Nassau - Chester Rd - David Hallman to Pages Dairy Rd - W
417-100*	Planned	Nassau - East - RW Storage and Repump - R*

417-101	Planned	Nassau - Radio Av - 3 Mgal Storage and Pumps - R
417-102*	Planned	Nassau - Wildlight - RW Storage and Repump - R*
417-103	Planned	Nassau Regional WRF - RW Storage and Pumps - R
417-61	Construction	Nassau - Radio Av - RW Storage Tank and Booster PS - R
417-82	Planned	Nassau Regional WRF - SR200 West of I-95 RW Storage Tank and Booster PS - R
417-99	Planned	Nassau - Chester Rd - Nassau WRF to Heron Isles Pkwy - R
425-71	Construction	Nassau Regional - Well No 2 Rehabilitation
741-01	Planned	Wildlight WTP - New 2.25 MGD MDF Plant
870-08	Construction	Nassau Regional WRF - Expansion to 3 MGD
870-15	Construction	Nassau Regional WRF - Effluent Management
870-16	Planned	SWDE - Nassau Regional WRF
870-17	Construction	Nassau Regional WRF - Screen and Membrane Replacement
870-18	Planned	Nassau Regional WRF - Expansion to 4 MGD

Note: \*Projects with an asterisk are "sites to be determined"\*

Figure 6 below shows the location of JEA water supply projects in Nassau County.

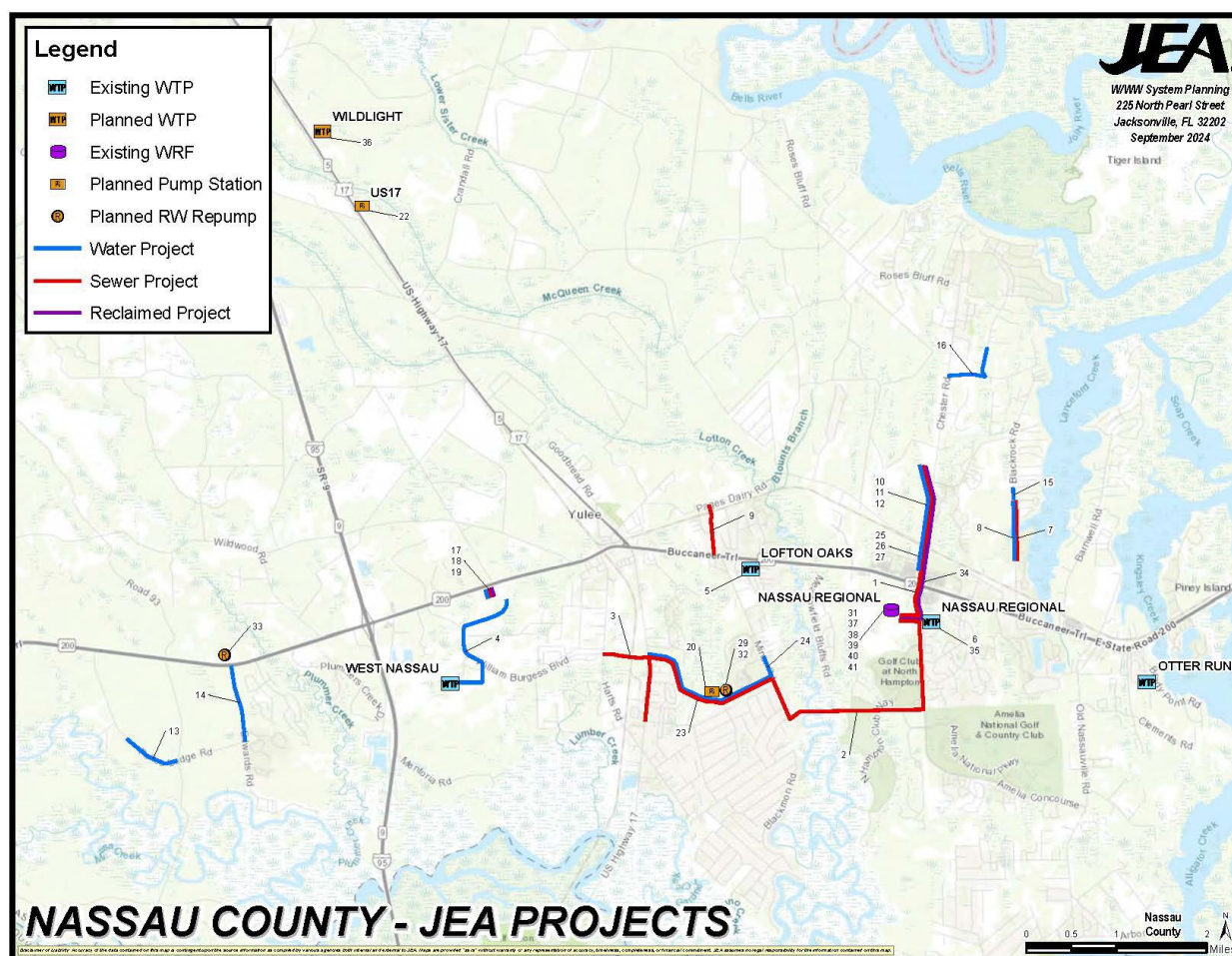


Figure 6 - JEA Projects in Nassau County

## *5.2 FCRU Projects*

The current FCRU developer, 301 Capital, has proceeded with its development plans for the property in Nassau County. The territory is located on a portion of Sections 29 and 30, Township 2 South, Range 23 East. This location will provide water & sewer services for the area & the Property. Discussions with the developer's engineer indicate construction is anticipated around 2030.

## *5.3 NAU Projects*

NAU does not have any potable or non-potable water supply or facility capacity projects planned for the work plan's planning period, beyond those related to routine system maintenance and operation.

In addition, Nassau County does not currently have any projects listed in the NFRWSP or identified in the capital improvement plan.

## *5.4 City of Fernandina Beach Water Supply Projects*

Fernandina Beach does not currently have any projects listed in the NFRWSP or the Capital Improvement Plan.

# 6.0 WATER CONSERVATION PRACTICES

The County currently implements water conservation practices, including some that are enabled by comprehensive plan policies. In addition, because the County relies on regional utility provider JEA and, in some cases, the City of Fernandina Beach to provide potable water service unincorporated areas, it is important for the County to coordinate its water conservation practices with these water suppliers. Additionally, Nassau County water suppliers, like NAU, partner with SJRWMD in events to raise awareness, such as the Water Conservation Public Awareness Campaign.

## *6.1 Water Conservation Practices*

Water conservation is important to reduce potable water demand. The County's water conservation practices include the following:

- Promoting water conservation measures (Nassau County 2030 Comprehensive Plan Policy WAT.04.01);
- Developing experimental projects to promote green development practices (Nassau County 2030 Comprehensive Plan Policy RC.01.11);
- Cooperate and assist the Water Management District to facilitate enforcement of emergency water conservation restrictions (Nassau County 2030 Comprehensive Plan Policy CS.01.04);
- Enforcing the Uniform Energy Conservation Construction Code (Nassau County 2030 Comprehensive Plan Policy CS.01.05); and
- Incentivizing the use of Low Impact Development (LID) techniques (Nassau County 2030 Comprehensive Plan Policy CS.01.06).

## 7.0 NON-POTABLE WATER (REUSE) PRACTICES

The County currently implements reuse practices through NAU, including some that are enabled by comprehensive plan policies. In addition, because regional utility provider JEA also provides reuse water service to a portion of the unincorporated area, it is important for the County to coordinate its practices with JEA.

### *7.1 Reuse Practices*

Utilization of reused water is important to reduce potable water demand. The County's reuse practices include the following:

- Considering regulations in Land Development Code (LDC) requiring wastewater reuse for landscape irrigation where available (Nassau County 2030 Comprehensive Plan Policy WAT.04.02); and
- Requiring wastewater to be reused where practical (Nassau County 2030 Comprehensive Plan Policy SEW.04.01)

## 8.0 WATER SOURCE PROTECTION PRACTICES

### *8.1 Water Source Protection Practices*

Protection of water sources is important to ensure the quality and quantity of water. The County's commitment to water source protection practices includes the following:

- Evaluating land use requests based on need and potential impact to aquifer (Nassau County 2030 Comprehensive Plan Policy WAT.05.01);
- Wellhead/wellfield protection standards (Nassau County 2030 Comprehensive Plan Policy WAT.05.03);
- Promoting public awareness about properly operating septic systems (Nassau County 2030 Comprehensive Plan Policy SEW.04.03); and
- Regulating densities and impervious surfaces to protect aquifer recharge (Nassau County 2030 Comprehensive Plan Policy CS.01.03)

## 9.0 COMPREHENSIVE PLAN POLICES PERTAINING TO WSFWP

By creating policy, Nassau County is able to generate requirements geared toward the promotion of sustainable water supply for the future. Table 4 below summarizes adopted policies being implemented for various water use practices for sustainable consumption. **Appendix E** includes Nassau County 2030 Comprehensive Plan Elements.

*Table 4 – Nassau County 2030 Comprehensive Plan Policies Pertaining to WSFWP*

<b>2030 Comprehensive Plan</b>	
Water Supply Agreements	RC.02.04; RC.03.04
Reuse Practices	WAT.04.02; SEW.04.01
Water Conservation Practices	WAT.04.01; RC.01.11; CS.01.04; CS.01.05; CS.01.06
Water Source Protection Practices	WAT.05.01; WAT.05.03; SEW.04.03
Coordination of Comp Plan with RWSP	WAT.02.02; CI.01.03; CS.01.01
Water Supply and Facility Concurrency	CS.01.02; WAT.01.07; RC.02.01; RC.02.02; CI.02.01; WAT.01.01; WAT.01.03; CI.02.05

RC: Regional Coordination

SEW: Sanitary Sewer Sub-Element

WAT: Potable Water Sub-Element in Public Facilities Element

CI: Capital Improvements Element

CS: Conservation Element

## 10.0 CONCLUSION

The Nassau County Water Supply Facilities Work Plan outlines a comprehensive strategy to ensure the sustainable management and provision of water resources for the County. The Work Plan is anticipated to be sufficient to support projected demand through 2040. The Work Plan policies align with the sustainable efforts promoted by the Florida Department of Commerce and SJRWMD. By coordinating with regional entities and adhering to state legislative requirements, the County aims to meet the growing water demands of its population while maintaining high standards of service and environmental stewardship.

Key initiatives include the development and maintenance of potable and non-potable water infrastructure, the implementation of water conservation practices, and the protection of water sources. The County's proactive approach towards planning and collaboration ensures that adequate water suppliers and facilities will be available to support both current and future development.

As the County continues to grow, ongoing updates to the WSFWP will be essential to address emerging challenges and opportunities in order for Nassau County to remain resilient and well-prepared to meet its water supply needs.

## **Appendix A – Nassau County Consumptive Use Permit**



# St. Johns River Water Management District

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

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • [www.sjrwmd.com](http://www.sjrwmd.com)

April 21, 2023

Florida Governmental Utility Authority  
5390 First Coast Hwy  
Fern Bch, FL 32034-5422

SUBJECT: Amelia Island, Consumptive Use Permit Number 50087-8  
Nassau County, Florida

Dear Sir/Madam:

Enclosed is the permit authorized by the District on April 21, 2023. The enclosed permit is a legal document and should be kept with other important records. Please read the permit and conditions carefully because the referenced conditions may require submittal of additional information. Where possible, please submit all information required to comply with permit conditions electronically at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) via the District's e-Permitting portal.

Please be advised that the District will not publish a notice in the newspaper advising the public that the permit has been issued. Enclosed is information on publishing notice of the permit. If a newspaper notice is not published to close the point of entry, the time to challenge the issuance of the permit will not expire. A potential petitioner has 26 days from the date on which the actual notice is deposited in the mail, or 21 days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, *Florida Statutes*. Receipt of such a petition by the District may result in this permit becoming null and void. Also, enclosed is a copy of the Notice of Rights.

If you have any questions concerning the permit, please contact Paula Presley in the Jacksonville Service Center at (904) 448-7909 or Edmund Ulrich in the Jacksonville Service Center at (904) 448-7928 or Timothy Clohisy in the Jacksonville Service Center at (904) 448-7925

Sincerely,

Richard Burklew, Bureau Chief  
Water Use Regulation

**Agent(s):** Brook Longest, Tetra Tech, Inc.

**Consultant(s):** Anna Lee Woodson, Tetra Tech, Inc.

**Land Owner(s):** Nassau Amelia Utilities

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#### GOVERNING BOARD

Rob Bradley, CHAIR  
FLEMING ISLAND

Maryam H. Ghyabi-White, VICE CHAIR  
ORMOND BEACH

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MOUNT DORA

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VERO BEACH

Douglas Burnett  
ST. AUGUSTINE

Cole Oliver  
MERRITT ISLAND

Janet Price  
FERNANDINA BEACH

**ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**  
**Post Office Box 1429**  
**Palatka, Florida 32178-1429**

**PERMIT NO:** 50087-8

**DATE ISSUED:** April 21, 2023

**PROJECT NAME:** Amelia Island

**A PERMIT AUTHORIZING:**

The District authorizes, as limited by the attached conditions, the use of 730.0 million gallons per year (mgy) (2.0 million gallons per day (mgd), annual average) of groundwater from the Upper Floridan aquifer for public supply use through 2043.

**LOCATION:**

Site: Amelia Island  
Nassau County

SECTION(S):  
14

TOWNSHIP(S):  
2N

RANGE(S):  
28E

**ISSUED TO:**

Florida Governmental Utility Authority  
5390 First Coast Hwy  
Fern Bch, FL 32034-5422

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal, rule, or ordinance.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

**PERMIT IS CONDITIONED UPON:**

See conditions on attached "Exhibit A", dated April 21, 2023

**AUTHORIZED BY:** St. Johns River Water Management District  
Division of Water Supply Planning and Assessment

By:



---

Richard Burklew  
Bureau Chief

**"EXHIBIT A"**  
**CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 50087-8**  
**Amelia Island**  
**DATE ISSUED April 21, 2023**

1. With advance notice to the permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The permittee shall either accompany District staff onto the property or make provision for access onto the property.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the permittee must adhere to the water shortage restrictions, as specified by the District. The permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order.
3. Prior to the construction, modification or abandonment of a well, the permittee must obtain a water well permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, F.A.C. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification, or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. The permittee's consumptive use of water as authorized by this permit shall not interfere with legal uses of water existing at the time of permit application. If interference occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the interference, unless the interference associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
6. The permittee's consumptive use of water as authorized by this permit shall not have significant adverse hydrologic impacts to off-site land uses existing at the time of permit application. If significant adverse hydrologic impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
7. The permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where permittee's control of the land subject to the permit was demonstrated through a lease, the permittee must either submit documentation showing that it continues to have legal control or transfer control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40C-1.612, F.A.C. Alternatively, the permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve, or other withdrawal facility as provided by Rule 40C-2.401, F.A.C. The permittee shall notify the District in the event that a replacement tag is needed.

9. The permittee's consumptive use of water as authorized by this permit shall not significantly and adversely impact wetlands, lakes, rivers, or springs. If significant adverse impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
10. The permittee's consumptive use of water as authorized by this permit shall not reduce a flow or level below any minimum flow or level established by the District or the Department of Environmental Protection pursuant to Section 373.042 and 373.0421, F.S. If the permittee's use of water causes or contributes to such a reduction, then the District shall revoke the permit, in whole or in part, unless the permittee implements all provisions applicable to the permittee's use in a District-approved recovery or prevention strategy.
11. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to significant saline water intrusion. If significant saline water intrusion occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the saline water intrusion, unless the saline water intrusion associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
12. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to flood damage. If the permittee's consumptive use causes or contributes to flood damage, the District shall revoke the permit, in whole or in part, to curtail or abate the flood damage, unless the flood damage associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
13. All consumptive uses authorized by this permit shall be implemented as conditioned by this permit, including any documents incorporated by reference in a permit condition. The District may revoke this permit, in whole or in part, or take enforcement action, pursuant to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to address the noncompliance. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
14. This permit does not convey to the permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
15. A permittee may seek modification of any term of an unexpired permit. The permittee is advised that Section 373.239, F.S., and Rule 40C-2.331, F.A.C., are applicable to permit modifications.
16. Following the effective date of the re-evaluated Minimum Flows and Levels adopted pursuant to Rule 62-42.300(1)(e), F.A.C., this permit is subject to modification during the term of the permit, upon reasonable notice by the District to the permittee, to achieve compliance with any approved MFL recovery or prevention strategy for the Lower Santa Fe River, Ichetucknee River, and Associated Priority Springs. Nothing herein shall be construed to alter the District's authority to modify a permit under circumstances not addressed in this condition.
17. All submittals made to demonstrate compliance with this permit must include CUP number 50087-8 labeled on the submittal. Submittals should be made on-line at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) whenever possible.
18. This permit will expire on April 14, 2043.
19. Maximum annual groundwater withdrawals from the Upper Floridan aquifer for public supply use must not exceed 730.0 million gallons (2.0 mgd, annual average).

20. Well 1-AI (Station ID 11419), Well 2-AI (Station ID 11420), Well 3-AI (Station ID 33941), and proposed Well 4-AI (Station ID 33942) must be equipped with a totalizing flowmeter. All flowmeters must measure within +/- 5% of actual flow, be verifiable and be installed according to the manufacturer's specifications.

21. Total withdrawal from Well 1-AI (Station ID 11419), Well 2-AI (Station ID 11420), Well 3-AI (Station ID 33941), and proposed Well 4-AI (Station ID 33942) must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of this permit using Water Use Pumpage Report Form (EN-50). The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

22. The permittee must have all flow meters checked for accuracy at least once every 10 years and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. Flow Meter Accuracy Report Form (EN-51) must be submitted to the District within 30 days of the inspection/calibration.

23. The permittee must maintain all flowmeters and alternative methods for measuring flow. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.

24. The permittee must implement the Water Conservation Plan submitted to the District on October 25, 2022, in accordance with the schedule contained therein.

25. The permittee shall use the lowest quality water source, such as reclaimed water, surface/storm water, or alternative water supply, to supply the needs of the project when deemed feasible pursuant to District rules and applicable state law.

26. During the construction of proposed well 4-AI (Station ID 33942) the permittee must conduct the following tests and submit the testing results to the District within 90 days of completion of the testing:

(a) Downhole field water quality testing for chlorides, sulfates and specific conductivity taken during drilling, at the end of each drill rod or 30-foot intervals, upon penetration of the Floridan aquifer, or when the drilling method changes from mud-rotary to the reverse-air/direct-air drilling technique. Any change in these parameters of 20% or greater between consecutive samples will require that the permittee collect a sample for laboratory analysis for those major anions and cations listed in Appendix F of the Applicant's Handbook.

All major ion analyses must be checked for anion-cation balance and must balance within 10%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.

(b) A suite of geophysical logs (gamma, electrical resistivity, caliper, flow, and fluid resistivity) and a video log of the well. All logs must be submitted to the District in hard copy and electronically in LAS format.

(c) GPS (latitude, longitude) and a site map location of the well.

(d) Water quality testing upon completion of the well for:

Field

- Field temperature (°C)
- Field pH
- Field specific conductance (umhos/cm)
- Field turbidity (NTU)

#### Laboratory

Calcium (mg/L), Magnesium (mg/L), Potassium (mg/L), Sodium (mg/L), Total iron (mg/L), Chloride (mg/L), Sulfate (mg/L), Strontium (mg/L), Bicarbonate Alkalinity (as mg/L CaCO<sub>3</sub>), Carbonate Alkalinity (as mg/L CaCO<sub>3</sub>), Total Dissolved Solids (mg/L), Specific Conductance (umhos/cm or uS/cm)

#### Sample Collection

Groundwater samples must be collected in accordance with the Florida Department of Environmental Protection's (FDEP) standard operating procedures (SOP), DEP-SOP-001/01, DEP Quality Assurance Rule, 62-160, F.A.C.

The well must be purged in accordance with the appropriate procedure in DEP-SOP-001/01, as necessary to evacuate water from the well column and induce groundwater representative of the hydrogeologic formation into the well prior to sampling. Purged water must be sampled and analyzed in the field for the following parameters:

- Water Temperature (°C)
- pH (SU)
- Specific Conductance (umhos/cm or uS/cm)
- Turbidity (NTU)

Purging must be documented using the Groundwater Sampling Log form referenced in the FDEP SOP or equivalent.

Water samples must be stored on ice immediately after collection and remain on ice until received by the laboratory. It is recommended that sample duplicates be taken to allow for laboratory errors or data loss, and these samples be stored by the laboratory for a minimum of 60 days to ensure backup sample availability should re-analyses be required.

#### Quality Assurance

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (FDOH) and the National Environmental Laboratory Accreditation Program (NELAP). All laboratory analyses must be by methods for which the laboratory has FDOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above, and analyzed for the field parameters and the major ion suite listed above.

With the exception of pH, laboratory analyses utilizing selective ion electrodes are not acceptable due to the inadequate sensitivity of these methods. Analyses utilizing test kits typically used for field screening (e.g., Hatch and LaMotte) are also not acceptable for the same reason.

All major ion analyses must be checked for anion-cation balance (equivalent concentration in meq/L) and must not exceed 5% difference. If the ion balance exceeds 5% difference, the permittee must review the data and include in the report submitted to the District, a

discussion of the cause or explanation of the imbalance. The permittee may also be required to have the sample re-analyzed if it is within acceptable holding times or have the well re-sampled. The resample shall be collected according to the procedures described above and analyzed for the four field parameters and the major ion suite.

### **Reports**

A report must be submitted to the District within 30 days of receipt of data analysis from the laboratory. The report must include the following:

- Table summarizing results for field measurements and laboratory chemical analyses
- Well sampling log
- Field instrument calibration verification
- Chain of custody forms (if outsourced)
- Laboratory analytical report (if outsourced)

All data must be submitted to the District in a District-approved electronic format readable by the District's computerized database.

27. The permittee must use all available reclaimed water beneficially when it is environmentally, economically, and technically feasible; to the extent it is available, reliable, and of suitable quality.
28. The permittee must have in place a process for reporting, recording and documenting unmetered water uses including, but not limited to, main breaks, sewer cleaning, and water quality flushing.
29. The permittee must conduct a detailed annual water audit and submit it to the District by February 28<sup>th</sup>. All water uses given in the audit must be for the previous calendar year and documentation provided on how the amounts were metered or determined. If the water audit shows that the system losses and unaccounted for water utility uses exceed 10%, a corrective action plan and annual water audit must be submitted until the unaccounted for water losses do not exceed 10%. After two consecutive years of water audits that do not exceed 10%, the permittee will continue submitting water audits at five-year intervals.
30. The permittee must submit to the District a compliance report pursuant to subsection 373.236(4), F.S., by April 1, 2033. The report shall contain sufficient information to demonstrate that the permittee's use of water will continue, for the remaining duration of the permit, to meet the conditions for permit issuance set forth in the District rules that existed at the time the permit was issued for 20 years by the District. At a minimum, the compliance report must include:
  - a. documentation verifying the permittee's use of water is efficient and continues to be meets the demands of the service area;
  - b. documentation verifying the permittee is implementing the water conservation measures identified in the Water Conservation Plan submitted to the District on October 25, 2022;
  - c. information demonstrating that the lowest quality source of water available is being used to meet water demands unless demonstrated that such use is not feasible; and
  - d. documentation showing the quantity of reclaimed water sent to nearby users and used for golf course and landscape irrigation compared with Upper Floridan aquifer groundwater withdrawals.
31. The permittee must have groundwater samples collected and analyzed in May of each year from Well 1-AI (Station ID 11419), Well 2-AI (Station ID 11420), Well 3-AI (Station ID 33941), and proposed Well 4-AI (Station ID 33942) for the duration of the permit.

**Sample Collection**

All groundwater samples must be collected in accordance with Florida Department of Environmental Protection (DEP) Standard Operating Procedure FS 2200 for groundwater sampling (DEP-SOP-001/01), DEP Quality Assurance Rule, 62-160, F.A.C.

Wells must be purged in accordance with the appropriate procedure in FS 2200, as necessary to evacuate water from the well column and induce groundwater representative of the hydrogeologic formation into the well prior to sampling. Purged water must be sampled and analyzed in the field for the following parameters:

Water Temperature (°C)  
pH (SU)  
Specific Conductance (umhos/cm or uS/cm)  
Turbidity (NTU)

Calibrated instruments equipped with probe sensors are acceptable for field measurements during well purging and water quality sampling procedures. Purging and sampling must be documented using the Groundwater Sampling Log form referenced in FS 2200 or equivalent.

Water samples must be preserved in accordance with the selected laboratory analytical method, stored on ice immediately after collection and remain on ice until received and processed by the laboratory.

**Laboratory Analyses**

Water samples must be analyzed in the laboratory for the following major ion suite:

Calcium (mg/L)  
Magnesium (mg/L)  
Potassium (mg/L)  
Sodium (mg/L)  
Total iron (mg/L)  
Chloride (mg/L)  
Sulfate (mg/L)  
Bicarbonate Alkalinity (as mg/L CaCO<sub>3</sub>)  
Carbonate Alkalinity (as mg/L CaCO<sub>3</sub>)  
Total Dissolved Solids (mg/L)  
Specific Conductance (umhos/cm or uS/cm)

**Quality Assurance**

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (DOH) Environmental Laboratory Certification Program (ELCP) and the National Environmental Laboratory Accreditation Program (NELAP). All laboratory analyses must be performed using methods for which the laboratory has DOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above, and analyzed for the field parameters and the major ion suite listed above.

Laboratory analyses utilizing selective ion electrodes and field screening test kits (e.g.,

Hach and LaMotte) are not acceptable due to the inadequate sensitivity of these methods.

All major ion analyses must be checked for anion-cation balance (equivalent concentration in meq/L), and must not exceed 5% difference. If the ion balance exceeds 5% difference, the permittee must review the data and include in the report submitted to the District, a discussion of the cause or explanation of the imbalance. The permittee may also be required to have the sample re-analyzed if it is within acceptable holding times or have the well re-sampled. The resample shall be collected according to the procedures described above, and analyzed for the four field parameters and the major ion suite.

### **Report**

A report must be submitted to the District no later than the last day of the month after the month of the sampling (e.g., the report for samples collected in May must be submitted to the District no later than June 30). The report must include the following:

- Table summarizing results for field measurements and laboratory chemical analyses
- Groundwater sampling log
- Field instrument calibration verification
- Chain of custody form (if outsourced)
- Laboratory analytical report (if outsourced)

All data must be submitted to the District in a District-approved electronic format readable by the District's computerized database. Form No. 40C-2.900(11) in paper format may be used in lieu of the electronic format for permittees not having access to a computer or the internet.

32. The permittee must collect daily water level measurement in Upper Floridan aquifer monitoring well, 5-Monitoring Well (Station ID 34637), at an accuracy of 0.5-ft NGVD. The permittee must submit the water level measurements annually to the District in a District approved format by February 28<sup>th</sup> of each year.
33. By February 28<sup>th</sup> of each year, the permittee must report the total amount of reclaimed water produced for the year and the quantity of reclaimed water delivered to each reclaimed water customer. The permittee must provide a minimum of 191.81 million gallons (0.5225 mgd, average annual) of reclaimed water annually to customers for irrigation to avoid the impact of using more groundwater. If the permittee fails to supply this quantity of water, a permit modification must be submitted to the District, which includes reevaluating the permittee's impacts on MFLs located in the Suwanee River Water Management District as outlined in Section 6.0 Supplemental Regulatory Measures Recovery Strategy for the Lower Santa Fe Basin MFLs.

## Notice Of Rights

1. A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-six (26) days of the District depositing the notice of District decision in the mail (for those persons to whom the District mails actual notice), within twenty-one (21) days of the District emailing the notice of District decision (for those persons to whom the District emails actual notice), or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Chapter 28-106, Florida Administrative Code. The District will not accept a petition sent by facsimile (fax), as explained in paragraph no. 4 below.
2. Please be advised that if you wish to dispute this District decision, mediation may be available and that choosing mediation does not affect your right to an administrative hearing. If you wish to request mediation, you must do so in a timely-filed petition. If all parties, including the District, agree to the details of the mediation procedure, in writing, within 10 days after the time period stated in the announcement for election of an administrative remedy under Sections 120.569 and 120.57, Florida Statutes, the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, shall be tolled to allow mediation of the disputed District decision. The mediation must be concluded within 60 days of the date of the parties' written agreement, or such other timeframe agreed to by the parties in writing. Any mediation agreement must include provisions for selecting a mediator, a statement that each party shall be responsible for paying its pro-rata share of the costs and fees associated with mediation, and the mediating parties' understanding regarding the confidentiality of discussions and documents introduced during mediation. If mediation results in settlement of the administrative dispute, the District will enter a final order consistent with the settlement agreement. If mediation terminates without settlement of the dispute, the District will notify all the parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Florida Statutes, is resumed. Even if a party chooses not to engage in formal mediation, or if formal mediation does not result in a settlement agreement, the District will remain willing to engage in informal settlement discussions.
3. A person whose substantial interests are or may be affected has the right to an informal administrative hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must also comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

## Notice Of Rights

4. A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8:00 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile is prohibited and shall not constitute filing.
5. Failure to file a petition for an administrative hearing within the requisite timeframe shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, Florida Administrative Code).
6. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. A person whose substantial interests are or may be affected by the District's final action has the right to become a party to the proceeding, in accordance with the requirements set forth above.
7. Pursuant to Section 120.68, Florida Statutes, a party to the proceeding before the District who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.
8. A District action is considered rendered, as referred to in paragraph no. 7 above, after it is signed on behalf of the District and filed by the District Clerk.
9. Failure to observe the relevant timeframes for filing a petition for judicial review as described in paragraph no. 7 above will result in waiver of that right to review.

**Notice Of Rights**

**Certificate of Service**

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent to the permittee:

Florida Governmental Utility Authority  
5390 First Coast Hwy  
Fern Bch, FL 32034-5422

This 21st day of April, 2023.

A handwritten signature in black ink, appearing to read "Rich Burklew", with a long horizontal flourish extending to the right.

Richard Burklew, Bureau Chief

Permit Number: 50087-8

## NOTICING INFORMATION

Please be advised that the St. Johns River Water Management District will not publish a notice in the newspaper advising the public that it has issued a permit for this project.

Newspaper publication, using the District's notice form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit for someone to file a petition for an administrative hearing to challenge the issuance of the permit.

To close the point of entry for filing a petition, you may publish (at your own expense) a one-time notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice to close the point of entry, the time to challenge the issuance of your permit will not expire and someone could file a petition even after your project is constructed.

A copy of the notice form and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit of publication. In that event, it is important that you either submit a scanned copy of the affidavit by emailing it to [compliancesupport@sjrwmd.com](mailto:compliancesupport@sjrwmd.com) (preferred method) or send a copy of the original affidavit to:

Office of Records and Regulatory Support  
4049 Reid Street  
Palatka, FL 32177

If you have any questions, please contact the Office of Records and Regulatory Support at (386) 329-4570.

NOTICE OF AGENCY ACTION TAKEN BY THE  
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Notice is given that on \_\_\_\_\_ the District issued Permit No. \_\_\_\_\_ for a Consumptive Use Permit to serve (type of project) \_\_\_\_\_ activities. The total allocation authorized is \_\_\_\_\_ mgd of (groundwater/surface water). The project is located in \_\_\_\_\_ County, Section(s) \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ East. The permit applicant is \_\_\_\_\_.

If you wish to receive a copy of a Technical Staff Report (TSR) that provides the St. Johns River Water Management District (District) staffs' analysis on the above-listed compliance report(s) and associated permit(s), please submit your request to Office Director, Office of Records and Regulatory Support, PO Box 1429, Palatka, FL 32178-1429. You may view the TSR by going to the Permitting section of the District's website at [www.sjrwmd.com/permitting/index.html](http://www.sjrwmd.com/permitting/index.html). To obtain information on how to find and view a TSR, visit [https://permitting.sjrwmd.com/epermitting/html/EP\\_FAQs.html](https://permitting.sjrwmd.com/epermitting/html/EP_FAQs.html), and then follow the directions provided under "How to find a Technical Staff Report (TSR) or other application file documents."

A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the District. Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code (F.A.C.), the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8 a.m. on the next regular District business day. A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes (F.S.), and Chapter 28-106, F.A.C. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, F.A.C.), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). The District will not accept a petition sent by facsimile (fax). Mediation may be available if you meet the conditions stated in the full Notice of Rights (see last paragraph).

The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, F.S., Chapter 28-106, F.A.C., and Rule 40C-1.1007, F.A.C. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. **Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, please visit [http://www.sjrwmd.com/nor\\_dec/](http://www.sjrwmd.com/nor_dec/) to read the complete Notice of Rights to determine any legal rights you may have concerning the District's decision(s) on the Consumptive Use Permit Application(s) described above. You can also request the Notice of Rights by contacting the Office Director, Office of Records and Regulatory Support, P. O. Box 1429, Palatka, FL 32178, phone (386)329-4570.

## **Appendix B – FGUA Agreement**

**INTERLOCAL AGREEMENT  
BY AND BETWEEN  
NASSAU COUNTY,  
FLORIDA  
AND THE FLORIDA GOVERNMENTAL UTILITY  
AUTHORITY RELATING TO THE PROVISION OF UTILITY  
MANAGEMENT, OPERATIONS AND MAINTENANCE  
SERVICES  
TO THE NASSAU COUNTY AMELIA UTILITY (NAU) WATER AND  
WASTEWATER UTILITY SYSTEM**

**THIS INTERLOCAL AGREEMENT**, dated as of this the \_\_\_\_\_ day of \_\_\_\_\_, 2020 (the "Utility Management Services Interlocal Agreement"), entered into by and between the **FLORIDA GOVERNMENTAL UTILITY AUTHORITY**, a legal entity and public body created by interlocal agreement pursuant to Section 163.01(7), Florida Statutes (the "FGUA"), and **NASSAU COUNTY, FLORIDA**, a Florida county governmental entity (the "County") each constituting a "Public Agency" under Part I of Chapter 163, Florida Statutes (the "Interlocal Act").

**RECITALS**

**WHEREAS**, Nassau County (the "County") currently provides water and wastewater utility services to its citizens through its Nassau Amelia Utility ("NAU"); and

**WHEREAS**, Nassau County has previously been a member government of the FGUA and has been utilizing its services for utility management, capital program management, grant administration and acquisition evaluation services during the current fiscal year, and is familiar with its unique capabilities; and

**WHEREAS**, the County and FGUA entered into a one year Interlocal Agreement for utility management services approved October 20, 2019 and the County and its utility customers have benefited significantly from the utility management support services provided by the FGUA; and

**WHEREAS**, the County wishes to have the FGUA continue providing these services on a longer term basis and now desires to enter into and execute this Utility Management Services Interlocal Agreement setting forth the terms and provisions under which the FGUA may provide continued utility services to the County ; and

**NOW, THEREFORE**, in consideration of the foregoing and the covenants contained herein, it is mutually agreed and understood by the County and the FGUA as follows:

**Section 1 - Incorporation**

(A) The above Recitals are true and correct and are incorporated herein.

(B) The Appendices hereto and each of the documents referred to therein are incorporated and made a part hereof in their entirety by reference.

Any headings preceding the texts of the several Articles, Sections, Appendices, or Exhibits in this Utility

Management Services Interlocal Agreement and any table of contents or marginal notes appended to copies hereof, shall be solely for the convenience of reference and shall neither constitute a part of this Utility Management Services Interlocal Agreement nor affect its meaning, construction or effect.

## Section 2 - Provision of Utility Services

The FGUA will provide the Utility Services as described in Appendix A attached hereto and incorporated herein and upon the terms and conditions outlined in this Utility Management Services Interlocal Agreement, commencing upon the date outlined in Section 9. It is expressly understood that the FGUA will perform such services using contract providers.

## Section 3 - Vehicles, Personnel, Office Space, Equipment and Supplies

For the duration of this Utility Management Services Interlocal Agreement, the County will make available to the FGUA and its operations subcontractor, certain specified personnel, vehicles, equipment, office space, technology and supplies owned by the County and utilized in the operation of the County's water and sewer utility system as reflected in Appendix A and Appendix B. To carry out the activities and responsibilities of the FGUA, the County shall allow the FGUA to utilize the FGUA Procurement Policies and Procedures.

## Section 4 - Renewal and Replacement

The County hereby authorizes and will provide funding to the FGUA on a monthly reimbursement basis to carry out renewal and replacement (R&R) activities, as identified in Appendix A, and B and C attached hereto and incorporated herein to the extent allowable within the county's utility budget as may be amended from time to time. The County shall allow the FGUA to utilize FGUA Procurement Policies and Procedures to carry out these activities and shall advance to the FGUA the value of one-twelfth of the annual R&R budget, as may be amended for cash flow purposes subject to reimbursement documentation for initial and following months. Any renewal and replacement requirements in excess of the funds budgeted shall remain the responsibility of the County and not be a responsibility of the FGUA however additional work may be performed by the FGUA upon authorization and funding by the county.

## Section 5 - Fee for Services

In recognition for the Utility Services to be provided to the County as described in Appendix A, the County shall compensate the FGUA according to the Compensation Schedule outlined in Appendix B and first year Budget outlined in Appendix C attached hereto and incorporated herein. County shall also compensate FGUA for minor renewal and replacement activities monthly for those activities as identified in Appendix A and Appendix B attached hereto.

## Section 6 - Invoicing and Prompt Payment

(A) FGUA invoices shall be submitted monthly, and shall be submitted to: Megan Diehl, Director of Office of Management and Budget  
96135 Nassau Place, Suite 2, Yulee, Florida 32097

(B) The County shall pay the FGUA the fee for services and R&R reimbursement pursuant to this Utility Management Services Interlocal Agreement consistent with the Florida Prompt Payment Act.

## Section 7 – Contract Staffing

Unless otherwise provided for in this agreement the FGUA and its contractor shall provide NAU with all staffing on a full-time equivalent (FTE) basis for the positions identified as such on the organization chart reflected in Appendix A. Upon the effective date of this agreement, the County has designated two (2) employees to remain as assigned county employees to the NAU for purposes of retaining public employment pay and/or benefits. The county employees occupying the positions in the NAU during the term of this agreement shall be subject to the control and supervision of the assigned FGUA Utility Manager. FGUA shall make employee duty assignments in accordance with established job descriptions, adopted work rules, and generally accepted utility practices. Failure of the county employees to follow schedules and directives of the FGUA Utility Manager shall result in the employees being reassigned out of the utility by the County Manager and replaced with FGUA contract personnel. Any disciplinary actions, records of counselling, or proceedings necessary for the County employees, as a result of any actions of the County employees working with FGUA and its operations contractor, shall follow and utilize the employment disciplinary procedures of Nassau County as established by its employee or personnel relations office, adopted by the County Commission, any collective bargaining agreements or other procedures as may apply to the County employee. Upon departure of the county employees from an assigned NAU position, such position shall be replaced with an FGUA contractor employee.

## Section 8 – Payment of County Employee Salaries and Benefits

The County shall remain responsible for the payment for the salaries, benefits, insurance, contributions for retirement benefits and any and all other compensation due and owing to the County employees working with FGUA and the operations contractor as provided in Appendix A and Section 7 of this interlocal agreement. County, as employer, shall be responsible for compliance and the payment of all fees and taxes associated with the County employees and employee benefits under state and federal law, including but not limited to Federal income tax, state taxes, if any, social security withholding tax, Medicare taxes, compliance with BRISA, compliance with the Affordable Healthcare Act, reemployment assistance taxes, overtime and employment laws, OSHA, or any other required employment rules and regulations.

County shall also remain the designated general employer for purposes of workers compensation and retirement system of the County employee and agrees that FGUA and County will settle all issues and workplace claims as provided in Section 13 of this interlocal agreement.

## Section 9 - Term and Termination

- (A) The term of this Utility Management Services Interlocal Agreement shall begin on October 1, 2020 and shall remain in effect for five (5) years, or until terminated according to the provisions of Section 9(B) hereof. This Utility Management Services Interlocal Agreement may be renewed for an additional five-year term as mutually agreed upon by the parties.
- (B) This Utility Management Services Interlocal Agreement may be terminated by either party by providing written notice to the other party at least sixty (120) days prior to the termination date. In the event of termination, the County shall pay to the FGUA all compensation due, related to services provided under this Utility Management Services Interlocal Agreement, up to and including the notice period.

- (C) In the event of termination or expiration, FGUA and the COUNTY shall cooperate in good faith in order to effectuate a smooth and harmonious transition from FGUA to the COUNTY, or to any other person or entity the COUNTY may designate and to maintain during such period of transition the same scope of Services provided to the COUNTY pursuant to the terms of the Agreement. Upon completion of the transition period and in further event that the COUNTY is unable to procure the same level of Services through its own means at such time of termination or expiration, the then pending term of this Agreement shall be extended by the written request of the COUNTY Manager and agreement by the FGUA in 120 day increments or until the COUNTY is capable of rendering such Services. The compensation to be paid during this period shall be prorated pursuant to Appendix B upon termination or expiration.

#### Section 10 - Right to Subcontract

The FGUA has and shall have the absolute right to subcontract with private providers to provide the services to be performed pursuant to this Utility Management Services Interlocal Agreement.

#### Section 11 - Acquisition Event

The parties acknowledge that the divesting and sale of the NAU from the county to the FGUA will produce the maximum benefits to the county and utility customers in the following ways:

- Ownership by a public entity singularly focused on water and wastewater utilities brings lower costs through maximum economies of FGUA's statewide scale and frees county government to focus greater attention to other services
- Potential for higher quality customer service resulting from FGUA singular focus and standards
- FGUA has highly experienced utility management and operational expertise
- FGUA capability and proven track record to carry out capital projects and improve aged infrastructure
- FGUA has access to the same low-cost grants, loans, and tax-exempt bond financing as the county with broader experience, relationships, and credit history
- The county would realize a significant revenue from liquidating its equity in the NAU
- Refunding of debt in an equity transaction may lower NAU cost of capital and allow for new capital improvement funding
- The county would have the unique standing as a "member government" with a seat on the FGUA Board of Directors to protect its interest in utility services with a right to reacquire the utility.

Accordingly, the parties agree to work collaboratively on gaining legislative approval commencing in the 2021 State Legislative session to allow an acquisition event and negotiate an agreement for purchase and sale when authorized. As part of an acquisition event, this Interlocal Agreement shall be terminated after the sale is complete with FGUA ownership and management of the utility.

The parties further agree that upon approval of this agreement, following the required request by the County and its approval of the First Amended and Restated Interlocal Agreement Relating to Establishment of the Florida Governmental Utility Authority, dated as of December 1, 2000, the FGUA Board of Directors shall promptly consider the addition of Nassau County as a member of the FGUA in accordance with Section 3.01 of the aforementioned FGUA Interlocal Agreement.

#### Section 12 - Access to Records

The FGUA shall maintain adequate records to justify all charges, expenses and costs incurred in

estimating and performing any of the services provided under this Utility Management Services Interlocal Agreement for at least two (2) years after the termination of this Utility Management Services Interlocal Agreement or as required by Law. The County shall have access to such books, records and documents as required for the purpose of inspection or audit, during normal business hours, and such books, records and documents shall be kept by FGUA at a place of business of the FGUA within the State of Florida.

#### Section 13 - Notice of Claims

Within forty-eight (48) hours of FGUA becoming aware of its occurrence, the FGUA shall notify the County, in writing, of all incidents, events or injuries which the FGUA reasonably believes may result in a claim, arising out of the FGUA's performance under this Utility Management Services Interlocal Agreement, including, but not limited to, claims relating to workplace injuries or grievances. The FGUA shall notify the County of any claim established and accepted by the FGUA as a liability of the FGUA under its commercial insurance or self-insurance and which claim is paid. The FGUA shall notify the County of any and all events, accidents, injuries, incidents, suits or claims which name or otherwise may involve or create a liability for the County or result from the provision by the FGUA of Utility Services under this Utility Management Services Interlocal Agreement.

#### Section 14 - Indemnification

(A) In consideration of Ten Dollars (\$10.00) and other valuable consideration provided between the parties, the receipt of which is hereby acknowledged by each party, each party shall protect, defend, indemnify and hold the other party and its officers, employees and agents harmless from and against any and all liabilities, claims, losses, and expenses, including attorney's fees and all reasonable costs of litigation and judgments arising out of any willful misconduct, negligent act, error, omission, or infringement of a third-party patent, license, or other intellectual property, by that party, its subcontractors, agents or employees, arising out of or incidental to the performance of this Utility Management Interlocal Agreement. Each party's obligation to indemnify pursuant to this Section is limited by the party's right to sovereign immunity, which right is expressly not waived by either party, and to the indemnification limitations provided in §768.28, *Florida Statutes*. The limits set forth in Section 768.28 (5), *Florida Statutes*, as may be amended from time to time by the State legislature, are hereby ratified and adopted herein by reference as a provision of this Utility Services Interlocal Agreement and are expressly made the limits of each party's liability to the other under this Utility Management Services Interlocal Agreement regardless of whether the claimed cause of action or the claimed source of any indemnification right sounds in tort, contract, product liability, strict liability, negligence, or otherwise. Any indemnification right of the County is further limited to and payable solely from money of the FGUA which is not derived from any enterprise fund of the FGUA or otherwise in conflict with any financing documents relating to bonds issued by the FGUA or any other indebtedness incurred by the FGUA. Any indemnification right of the FGUA is limited to and payable solely from monies of the County not derived from the collection of impact fees or otherwise in conflict with financing documents relating to bonds issued by the County or any other indebtedness incurred by the County. All pollution related liability coverage shall remain with the County for purposes of this Agreement.

(B) Notwithstanding any provision to the contrary contained in this Utility Management Services Interlocal Agreement, in no event shall the FGUA be liable, either directly or as an indemnitor of the County, for any special, punitive, indirect and/or consequential damages, including damages attributable to loss of use, loss of income or loss of profit even if the FGUA has been advised of the possibility of such damages. Furthermore, notwithstanding any provision to the contrary contained in this Utility Management Services Interlocal Agreement, in no event shall the County be liable, either directly or as an indemnitor of the FGUA, for any special, punitive,

indirect and/or consequential damages, including damages attributable to loss of use, loss of income or loss of profit even if the County has been advised of the possibility of such damages. This limitation contained in this Section herein shall not preclude either party from pursuing its indemnity rights against the other party for special, punitive, indirect and/or consequential damages in the event that the party seeking indemnity is obligated to pay such special, punitive, indirect and/or consequential damages to a third party because of the other party's negligence.

#### Section 15 -Applicable Law; Jurisdiction and Venue

- (A) This Utility Management Services Interlocal Agreement shall be governed by and construed in accordance with the laws of the State of Florida.
- (B) The parties to this Utility Management Services Interlocal Agreement expressly consent to the jurisdiction of and agree to suit in any court of general jurisdiction in the State, whether state, local or federal, and further agree that venue shall lie in Nassau County, Florida. Notwithstanding any law to the contrary, if FGUA may claim a right of home venue privilege in Leon County, Florida, FGUA specifically waives this right by entering into this Utility Services Interlocal Agreement with the County.
- (C) The FGUA will comply with the State of Florida records retention guidelines and will transmit retained documents to the County for retention or destruction upon request.

#### Section 16 - Public Records

- (A) IF EITHER PARTY HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT FLORIDA GOVERNMENTAL UTILITY AUTHORITY, ATTN: LAUREN DUCKWORTH, AUTHORITY CLERK, 280 WEKIVA SPRINGS ROAD, SUITE 2070, LONGWOOD, FL 32779, EMAIL: [LDUCKWORTH@GOVMSERV.COM](mailto:LDUCKWORTH@GOVMSERV.COM), PHONE (407) 629-6900 AS APPLICABLE.
- (B) The parties shall keep and maintain all public records required and deemed necessary to perform the services purchased under this contract.
- (C) When requested by the Custodian of Public Records of either party, the other party shall provide a copy of those requested public records that are not exempt and relate to the contract for the purpose of allowing the records to be inspected or copied within a reasonable time at a cost that does not exceed those costs provided in Chapter 119, Florida Statutes or as otherwise may be provided by law.
- (D) Both parties shall ensure that all public records which are exempt or confidential, and exempt from public records disclosure requirements, are not disclosed to the public except as authorized by law for the duration of the contract term and following completion of the contract if the public records are not transferred to the other party as provided in this contract.
- (E) Upon completion of the contract, each party shall maintain all the public records required to perform the contract. Each party shall destroy any duplicate public records that are exempt or confidential and which are also exempt from public records disclosure requirements.

- (F) A request to inspect or copy public records relating to this contract for services must be made directly to the parties. Requests should be directed to the Custodian of Public Records.

If either party does not possess the requested records due to a private contractor or subcontractor maintaining the public records, then the FGUA or the County shall immediately notify the private contractor or subcontractor of the request for records. The contractor or subcontractor must provide the records to the FGUA or the County or allow the records to be inspected or copied within a reasonable time. If the contractor or subcontractor does not comply with the FGUA or the County's request for records, the FGUA shall be entitled to enforce the contract provisions herein for failure to comply with the terms of the contract. Any contractor or subcontractor which fail to provide public records to FGUA or the County within a reasonable time may also be subject to penalties as provided under Section 119.10, Florida Statutes, including punishment by fine or may be guilty of committing a misdemeanor of the first degree for any willful and knowing violation.

#### Section 17 - Notice

- (A) All notices, certificates or other communications hereunder shall be sufficiently given and shall be deemed given when hand delivered or mailed by registered or certified mail, postage prepaid, to the parties at the following addresses:

To the FGUA:

Florida Governmental Utility Authority  
c/o Government Services Group, Inc.  
280 Wekiva Springs Rd. Suite 2070  
Longwood, FL 32779-6026  
Attention: Stephen Spratt, System Manager

With a copy to:  
Pennington, P.A.  
215 South Monroe Street, 2nd Floor  
Tallahassee, FL 32301-1839  
Attention: Gene Adams, Esq.

Nabors, Giblin & Nickerson  
1500 Mahan Drive  
Tallahassee, FL 32308  
Attention: Heather Encinosa, Esq.

To the County:

Michael S. Mullin,  
County Manager/County Attorney  
96135 Nassau Place, Suite 6  
Yulee, Florida 32097

- (B) Any written notice given to one person in Subsection A of this Section shall also be provided to all other persons identified in Subsection A.
- (C) The parties may, by notice in writing given to the others, designate any future or different addresses to which the subsequent notices, certificates or other communications shall be sent. Any notice shall be deemed given on the date such notice is delivered by hand or by facsimile transmission or five (5) days after the date mailed.

#### Section 18 - Assignment

- (A) The FGUA shall not have the right to assign any of its rights, duties or obligations under this Utility Management Services Interlocal Agreement without the consent of the County upon a demonstration by the proposed assignee of its ability to perform the obligations of the FGUA under this Utility Management Services Interlocal Agreement, which consent shall not be unreasonably withheld. A consented to assignee shall be required to assume the obligations of the assigning party by written assignment in a form reasonably satisfactory to the County's attorney.
- (B) Any assignment of this Utility Management Services Interlocal Agreement consented to by the County shall be an assignment of the Utility Management Services Interlocal Agreement in

its entirety; provided, however, this provision shall not apply to an affiliate of the FGUA if such separate assignment shall not, in the judgment of the County, interfere with the performance of the duties and the provision of the services provided in this Utility Management Services Interlocal Agreement.

#### Section 19-Amendments and Waivers

No amendment, supplement, modification, or waiver of this Utility Management Services Interlocal Agreement shall be binding upon any party hereto unless executed in writing by such party. No waiver of any of the provisions of this Utility Services Interlocal Agreement shall be deemed or shall constitute a waiver of any other provision of this Utility Management Services Interlocal Agreement, whether or not similar, unless otherwise expressly provided. No waiver of a default or a breach of any provision of this Utility Management Services Interlocal Agreement shall operate nor be construed to operate as a waiver of any subsequent default or breach.

#### Section 20 - Filing

This Utility Management Services Interlocal Agreement shall be filed with the Clerk of the Circuit Court of Nassau County and with the Clerk of the Circuit Court of Leon County.

#### Section 21 - Severability

If any clause, subsection, or section of this Utility Management Services Interlocal Agreement shall be ruled invalid by any court of competent jurisdiction, then the invalidity of such clause, provision, subsection, Section or Article shall not affect any of the remaining provisions hereof, and this Utility Management Services Interlocal Agreement shall be construed and enforced as if such invalid portion did not exist.

#### Section 22 - Insurance Requirements

The FGUA will require any contract provider utilized to deliver services to the County under this Utility Management Services Interlocal Agreement to satisfy the insurance requirements outlined in Appendix D. The FGUA will require its contract providers to name the County as a primary additional insured.

#### Section 23 - Effective Date

The Effective Date of this Utility Management Services Interlocal Agreement shall be October 1, 2020, when the FGUA assumes management and operational responsibility for the Nassau Amelia Utility System.

#### Section 24 - Entire Agreement

This Utility Management Services Interlocal Agreement, including the referenced Appendices hereto, is the entire agreement between the parties. Upon execution by *all* parties, the County shall provide the FGUA three complete, certified copies of this Utility Services Interlocal Agreement, together with all appendices hereto. This Utility Management Services Interlocal Agreement shall be construed as solely for the benefit of the County and the FGUA, their successors and assigns, and no claim or cause of action shall

accrue to or be for the benefit of any third party by reason of the execution of this Utility Management Services interlocal Agreement.

**IN WITNESS WHEREOF**, the County and the FGUA have caused this Utility Management Services Interlocal Agreement to be duly executed and entered into on the date first above written.

FLORIDA GOVERNMENTAL UTILITY AUTHORITY

By: \_\_\_\_\_

Its: \_\_\_\_\_

Date: \_\_\_\_\_

Attest: \_\_\_\_\_

Lauren Duckworth, Board Clerk

Date: \_\_\_\_\_

NASSAU COUNTY, FLORIDA

By: \_\_\_\_\_

Its: \_\_\_\_\_

Date: \_\_\_\_\_

Attest: \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix A

### Nassau County - Amelia Utilities (NAU)

#### FGUA Management Scope of Services

- Provide management and oversight of NAU operations, maintenance, customer services and billing, consisting of appropriately qualified utility management personnel and staffing support to meet generally accepted prudent utility standards to the extent budgeted resources and physical capacities permit
- Provide supervision and control of utility functions and personnel as reflected on the accompanying functional and Staffing Chart
- Assist the County in maintaining required communications and working relationships with regulatory agencies– regarding utility compliance, monitoring, and reporting
- Ensure orderly NAU related documentation and workflow to meet requirements of county agencies, particularly those related to county executive office, finance budget, procurement, and purchasing.
- Identify priorities and carry out renewal and replacement (R&R) projects within adopted county budgets as may be amended from time to time in accordance with the FGUA purchasing policies and procedures
- Assist the county OMB in the preparation of and periodic update of the NAU annual operating budget and 5-year Capital Improvement Plan
- Provide weekly and/or monthly management reporting with frequency, format and content to be provided by the County Manager
- Attend and participate in BOCC, staff, planning and budget meetings as required
- Prepare regulatory public notices, CCR's, MOR's, DMR's, FDEP correspondence, and other regulatory reporting
- Provide NAU-related customer communications and outreach support to the county public information staff as required
- Provide NAU-related media relations support to the county as required
- Provide recommendations on technology improvements to improve efficiency and service reliability
- Within the available budgets and design capacities, and physical infrastructure limitations of the county's existing facilities and systems, make best efforts to operate, maintain and repair the water and wastewater plants and collection and distribution systems with the goal of achieving the following:

## **SECTION 1-TREATMENT FACILITIES**

- Control of treated water corrosivity within the limits of the existing treatment process;
- Flow meters tested and calibrated annually unless otherwise specified by permit or regulatory agencies;
- Maintain Supervisory Control and Data Acquisition (SCADA) system, if any;
- Issue public notices of non-compliance with drinking water standards;
- Issue notices of non-compliance resulting from limitations of the treatment process or equipment failure;
- Minimize the generation of noise and odors in accordance with Applicable Law within the limits of existing treatment processes;
- Assist in the coordination of construction contractors, engineers, or other consultants or vendors for line tie-ins and connection of Capital Improvements to the Utility Facilities;
- Provide timely submittal of all operating reports required by regulatory agencies;
- Provide predictive and preventative maintenance of the plant and appurtenant equipment, pumps and motors;
- Provide residual removal services as needed to optimize plant operations.
- Take immediate action to either prevent environmental incidents or dangerous situations, and endeavor to keep the number and duration of such incidents and situations to a minimum.

## **SECTION 2 -WATER PUMPING STATIONS AND WELLS.**

Within the design capacity and capability of the county's existing facilities, operate, maintain, and repair the pumping stations and raw water supply well facilities and their respective appurtenances including, but not limited to, the following:

- Monitoring of pump stations and wells for Emergency Conditions.
- Maintenance, operation and repair of the radio telemetry system.

Regularly scheduled predictive and preventative maintenance, inspections, and adjustments. A list of activities to be performed at the following minimum intervals shall include, but not be limited to, the following:

- Clean sump pumps as needed;
- Check control panels for proper operation weekly;
- Check motor amperage at least once a quarter;
- Check and clean filter elements for gas or diesel engines as specified by the manufacturer;

- Change and maintain the oil level in pumps as Specified by the manufacturer;
- Maintain proper belt tension at all times and check weekly;
- Poll the station on a scheduled basis by the telemetry system to the extent of the capability of said system at five (5) minute increments;
- Check pump running times weekly;
- Maintain the station's lights and replace bulbs as needed;
- Check motor starter contacts at least once a quarter;
- Inspect floats quarterly;
- Maintain alarm lights and horns weekly;
- Remove debris from pumps and check valves as required;
- Lubricate pump and motor bearings as specified by the manufacturer;
- Clean out pumps as required;
- Exercise all station valves at least once a quarter; and
- Clean check valves as required.

Repair pump stations and wells as needed in order to maintain their integrity. Such activities to be performed or provided shall include, but not be limited to, the following Repairs, Replacements and Renewals:

- Rebuilding or replacing gate, check butterfly, and ball valves;
- Removing and reinstalling pumps and motors for repair;
- Repairing motors and pumps;
- Repairing or replacing rails, supports, or piping;
- Replacing flapper valves on pump volutes;
- Repairing or replacing electrical panels;
- Rewinding motors;
- Replacing impellers, wear plates, bearing, and seals;
- Cleaning clogged pumps;
- Replacing piping on sump pumps;
- Replacing circulation lines:
- Clean aerators on a quarterly basis and repair screens as needed; and
- Repairing and replacing remote telemetry unit components.

### **SECTION 3 -WATER DISTRIBUTION SYSTEMS**

Within the design capacity and capability of the county's existing facilities, operate, maintain, and repair the water transmission, distribution piping, treated water storage, meters and other appurtenances including, but not limited to, the following:

- Timely repair of any water main breaks, water main leaks, service line breaks, and service line leaks up to the point of customer connection;
- Provide water utility locates in a timely manner when locate tickets are received from the county's existing sunshine one call delivery system;
- Excavation, backfilling, compaction and restoration of such excavations in the course of performing work in the water distribution system;
- Regular flushing of dead-end system main lines monthly or more often if required and record the gallons flushed on maintenance report;
- Annual fire hydrant flow testing, inspection and maintenance per - FGUA protocol;
- Customer requested meter field testing to assure accuracy. Customer requested bench testing to assure accuracy
- Carry out disconnections, reconnections, and other general repairs such as line leaks, valve breaks and damage to appurtenances relating to existing water services or the distribution system in a timely manner and in no event later than twenty-four (24) hours after receipt of a work order, unless any delay beyond twenty -four (24) hours is due to unavailability of parts, in which case such work will be completed as soon as the parts are obtained.
- Respond to emergency conditions on a seven-days-a- week, twenty-four (24) hour a day basis without a work order and initiate such response within two (2) hours of being notified or otherwise learning of such emergency condition or of any unforeseen combination of circumstances that reasonably calls for immediate action.

### **SECTION 4 - STORAGE TANKS**

Render predictive and preventative maintenance service with respect to all county- owned ground storage tanks. Such preventative maintenance services, at a minimum shall consist of regularly scheduled inspections and adjustment of electrical and mechanical equipment associated with each of the City's water storage tanks. When possible, equipment deficiencies detected during inspections shall be corrected prior to leaving job sites.

## **SECTION 5 - WASTEWATER PUMPING FACILITIES**

Within the design capacity and capability of the county's existing facilities, operate, maintain and repair the wastewater pumping facilities, and their respective appurtenances including, but not limited to, the following:

- Monitoring of lift or pumping stations for emergency conditions.
- Maintenance, operation, and repair of the radio telemetry system, if any.

Regularly scheduled preventative maintenance, inspections and adjustments.

Monitor the wastewater pumping facilities which have the technology for such monitoring for the following parameters:

- Pump running times;
- High water level in wetwell;
- Loss of electrical power and thermal overload;

Provide predictive and preventative maintenance to the wastewater pumping facilities including, but not limited to:

- Regularly scheduled inspections at least three (3) times weekly;
- Adjustment of electrical and mechanical equipment;
- Check control panels for proper operation at least three (3) times weekly;
- Check motor amperage at least once a quarter;
- Change and maintain the oil level in pumps as specified by the manufacturer;
- Lubricate and clean air blowers weekly or as specified by the manufacturer;
- Check pump running times at least three (3) times weekly;
- Clean "wet wells" on an as-needed basis; cleaning frequency will be determined after initial inspections of lift stations are conducted;
- Check remote telemetry units for proper operation daily;
- Maintain the station's alarm lights and replace bulbs as necessary;
- Check the wet well levels for proper distance of pumping as necessary;
- Check motor starter contacts at least once a quarter,
- Clean floats quarterly or as needed;
- Remove debris from pumps and check valves as necessary;
- Clean out pumps as required as necessary;
- Exercise all station valves at least once a quarter, and
- Supply all materials as needed for the predictive and preventative maintenance program in conformance with the requirements of this agreement.
- Repair and rehabilitate pump stations including, but not limited to, the following:
  - Repairing or replacing gate, check and plug valves;
  - Removing and reinstalling pumps and motors for repair;
  - Repairing motors and pumps;
  - Repairing or replacing rails, supports, or piping;

- Replacing flapper valves on pump volutes;
- Repairing or replacing electrical panels;
- Rewinding motors;
- Removing submersible pumps for cleaning, repairs, or gasket replacement;
- Replacing impellers, wear plates, bearing, and seals;
- Cleaning clogged pumps;
- Replacing piping on sump pumps;
- Replacing circulation lines; and
- Repairing and replacing remote telemetry unit components.

## **SECTION 6 - WASTEWATER COLLECTION SYSTEMS**

Within the design capacity and capability of the county's existing facilities, operate, maintain and repair the wastewater collection systems including the following:

- Provide wastewater utility locates in a timely manner when locate tickets are received from the county's existing Sunshine One call delivery system;
- All sanitary sewer overflows shall be reported to regulatory agencies as required by FDEP rule;
- Timely repair of any sewer line breaks and service line breaks;
- Inspection of main pipelines and manholes.
- Respond to any wastewater collection system Emergency Condition seven (7) days a week, twenty-four (24) hours a day including, but not limited to, pipeline blockage or potential thereof, or manhole surcharging, as may reported by any source, within the county service area as soon as possible, but in any event, within two (2) hours of being notified or otherwise learning of such or related condition in the wastewater collection system.
- Timely, and properly, maintain and repair the wastewater collection and transmission facilities. Take all necessary measures to remedy conditions in the wastewater collection system facilities resulting from a main pipeline blockage and consequential surcharging of such pipelines or manholes and shall be responsible for clean-up and abatement resulting from such conditions which occur within the wastewater system facilities.

## **SECTION 7 - COMPUTERIZED MAINTENANCE RECORDS**

The FGUA shall utilize the county's current computerized maintenance management system for the Utility Facilities consistent with current county practices.

## **SECTION 8 - FULL TAP AND METERS AND METER SETTING**

Complete Meter Setting and installation of Full Tap and Meters in a timely manner and in no event later than as follows:

- For meter installations where service is already in place, five (5) Business Days from the date of the installation or meter setting request.
- For Full Taps and Meters and Meter Settings where a permit from an outside agency is not required, fifteen (15) Business Days from the date of the installation or meter setting request.
- For Full Taps and Meters and Meter Settings where a permit from an outside agency is required, twenty (20) Business Days after the receipt of the permit.

## **SECTION 9 – CUSTOMER SERVICE**

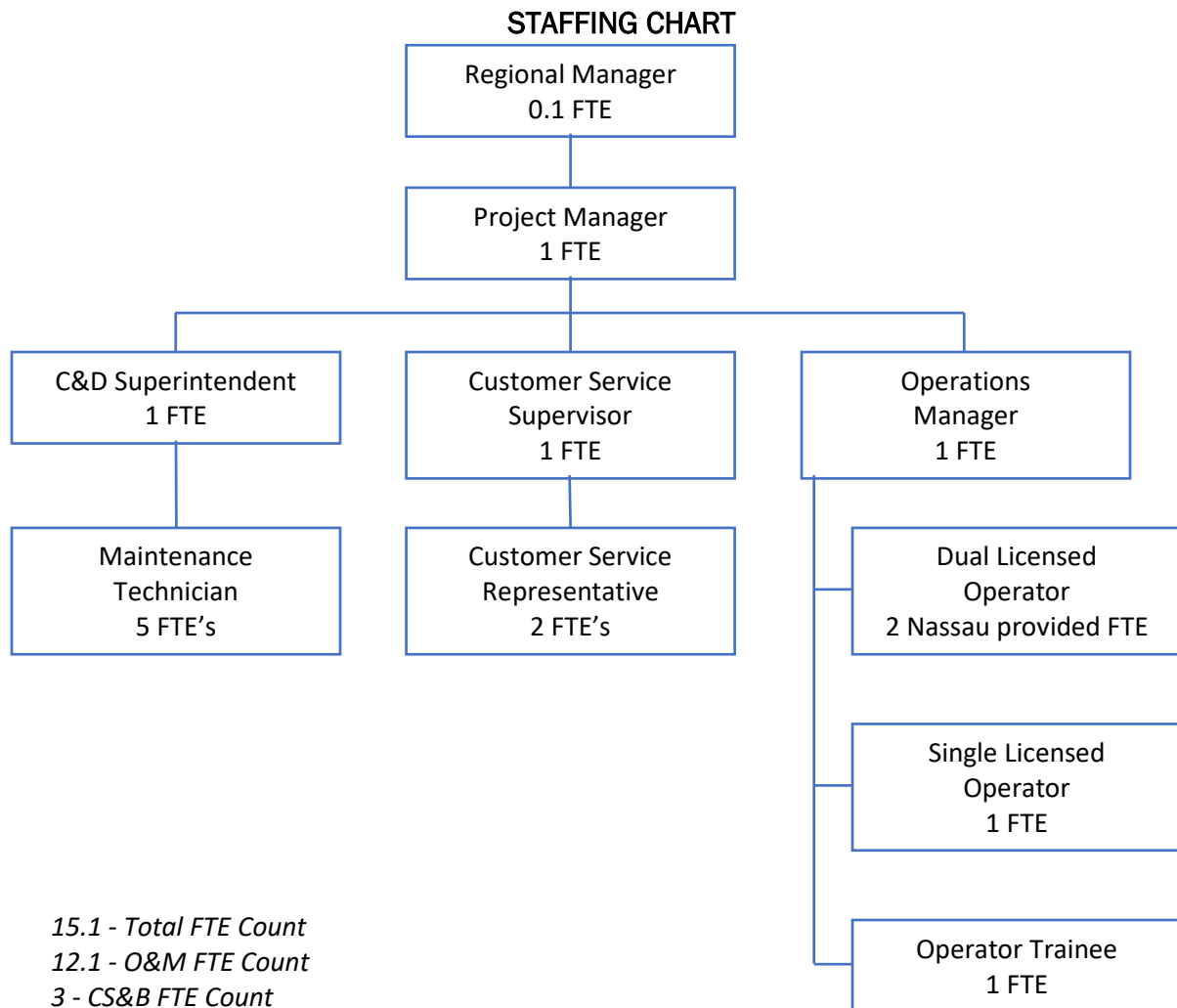
Utilizing County furnished computer equipment, phone system and customer service database and software, provide staffing necessary as it relates to Utility Billing and Customer Service for water, sewer, and reclaimed water customers only.

- Provide management oversight and three (3) full-time equivalent customer service representatives to work in the local County provided office and other associated labor for customer service, service order generation and CIS completion, and bill generation (bill preparation and mailing utilizing County provided equipment and supplies).
- Answer customer calls related to water and sewer inquiries during normal business hours
- Provide customer service related to current or past due bill(s), provide balances, current due dates, methods of payments and other general information as may be required
- Review and investigate consumption exceptions utilizing established or/adopted high/low variances
- Coordinate payment arrangements, credits and the similar adjustments in accordance with Nassau County established business rules
- Utilizing County CIS system, generate and coordinate service orders utilizing the associated automated work order system for move in/out requests, leak inquiries, new service applications, turn on/offs, and other similar service orders as may be required
- Receive customer payments for water and sewer bills or related services utilizing County best practices associated with cash/payment handling and processing
- Determine credits and/or debits to customer accounts based on customer issue and established County business rules
- Generate re-read service orders based on meter reads received from field staff based on County exception report and process
- Perform bill fulfillment utilizing County furnished equipment and material
- Handle billing and customer service inquiries based on customer requests

## SECTION 10 – EMERGENCIES

Respond to Emergency Conditions of any type at the Utility Facilities on a seven (7) days per week, twenty-four hours per day basis.

## SECTION 11. ORGANIZATIONAL /STAFFING CHART



## **Appendix B**

### **Compensation Schedule**

#### **Compensation to FGUA**

- a) Management and Operational Oversight Services/Utility Operations and Maintenance Services & Customer Services and Billing
  - 1) In exchange for providing the utility services outlined in Appendix A, the County shall pay to the FGUA \$176,790 per month for the first year of the term
  - 2) Monthly payments will be made on the first business day of each month.
  - 3) The monthly compensation to the FGUA provides for the following:
    - a. Operations Contractor (U.S. Water Services) - \$157,957 (net of credits applied under 3e below)
    - b. Management Contractor (GSG) - \$16,833 (incl. CIP Administration for R&R)
    - c. Minor R&R (small projects costing less than One Thousand dollars)
    - d. FGUA Misc. (insurance, travel, legal, etc.) - \$2,000
    - e. Monthly credit to County for period it pays salary and benefits for county employed W/WW Operator II (deduct) - \$6,504 per employee holding the position of a W/WW Operator II position.
  - 4) Monthly Routine Chemicals based upon treatment processes as of effective date of this agreement. The above monthly fee amount includes chemical costs to be paid to the Operations Contractor, including the contractor's margin.
  - 5) The above referenced monthly compensation includes payment to the FGUA to provide the following items previously included separately in the County budget.
    - a. Operations & Maintenance and customer service personnel and related benefits
    - b. Employee uniforms
    - c. Employee training
    - d. Sampling, testing and lab expenses related to permit requirements
    - e. Vehicle maintenance and repair (utilizing county provided mobile equipment)
    - f. Fuel
    - g. Operating supplies
  - 6) During the term of this agreement, the monthly compensation to the FGUA shall be adjusted annually by the percentage change in the Consumer Price Index (U.S. City Average-Urban Consumers) as of April of each year and change in Equivalent Residential Connections (ERCs)
- b) Capital Project Management & Inspection Services to be compensated in accordance with that separate Interlocal Agreement dated December 19, 2020

## **Cost Responsibilities Remaining with County**

- 1) Debt service
  - 2) R&R and capital costs for any required expense not implemented with the monthly minor R&R allocation.
  - 3) All customer billing expenses (including printing, binding, postage, on-line payment options, and ACH payments)
  - 4) Customer Service office equipment and IT support to include computers, phone system, copier/scanner equipment and other appurtenances currently utilized by the County to accomplish customer service and billing
  - 5) Accounting/Auditing
  - 6) Engineering services
  - 7) Permit/Regulatory expenses
  - 8) Legal services
  - 9) Utilities (electricity, telephone, etc.) and IT services
  - 10) Rental/Leases
  - 11) Insurance
  - 12) Building and grounds maintenance
  - 13) Legal ads
  - 14) Sludge Disposal
  - 15) Bad debt
  - 16) Office space and supplies
  - 17) Janitorial supplies
  - 18) Garbage fees/trash removal
  - 19) Regulatory fines or penalties
  - 20) Wholesale water or wastewater purchases
  - 21) Billing Software updates (if applicable)
-

## APPENDIX C

### NASSAU County Historical, Projected and Adopted Budget

Line No	Description	Actual Results			FY2020 Adopted Budget*	Estimate	
		FY2017	FY2018	FY2019		FY2020 Projected	FY 2021 Proposed Budget
	Revenues						
1	Total Operating Revenues	4,229,588	4,405,252	4,512,129	4,636,623	4,456,171	4,679,589
2	Total Non-Operating Revenues	15,402	35,461	119,542	20,600	20,822	20,000
3	Total Pledged revenues	4,244,990	4,440,713	4,631,671	4,657,223	4,476,993	4,699,589
	Expenses						
4	Total Contractual Services	2,845	12,334	6,504	15,108	11,637	11,040
5	Total Professional Services	94,641	65,224	200,856	1,026,873	694,918	2,162,482
6	Total Salaries and Benefits	687,385	870,974	944,459	773,083	695,876	212,593
7	Total Rentals and Leases	21,427	23,616	22,574	17,750	3,306	44,100
8	Total Repairs and Maintenance	170,236	219,378	208,622	340,489	116,310	75,872
9	Total Gas and Oil	9,821	8,567	17,741	17,000	5,798	-
10	Total Materials	1,403	1,735	1,445	2,800	1,648	-
11	Total Other Expenses	509,839	489,553	534,289	554,580	400,295	529,445
12	Total Operating Expenses	1,497,597	1,691,380	1,936,490	2,747,683	1,929,787	3,035,532
	Debt Service						
13	Principal	930,000	955,000	975,000	995,000	995,000	1,015,000
14	Interest	261,655	241,391	241,391	199,467	199,467	177,859
15	Total Debt Service	1,191,655	1,196,391	1,216,391	1,194,467	1,194,467	1,192,859
	Transfers						
16	R&R Transfer 5%	208,770	212,250	222,036	231,584	231,584	230,000
17	Rate Stabilization 10%	417,540	424,499	444,071	463,167	463,167	241,198
18	Contingency Reserve 10%	138,619	149,760	169,138	193,649	193,649	-
19	Total Transfers	764,929	786,508	835,245	888,400	888,400	471,198
* FY2020 Budget w/rolled encumbrances							

\* FY2020 Budget w/rolled encumbrances

\*\*

#### Total FY21 R&R and CIP Funds

	FY20 Estimated Balance in R&R Fund	\$ 217,220	
**	FY21 Estimated R&R Required Transfers	230,000	
	Estimated transfer from Unrestricted Cash to CIP	1,305,248	Updated from budget file (Net)
	<b>Total Estimated R&amp;R Funds for FY21</b>	<b>\$ 1,752,468</b>	

Appendix D  
**FGUA Insurance Requirements**

I) The FGUA and/or its contractors shall obtain and maintain such insurance as will protect it from:

- a) claims under worker's compensation laws, disability benefit laws, or other similar employee benefit laws;
  - b) claims for damages because of bodily injury, occupational sickness or disease or death of his employees including claims insured by usual personal injury liability coverage;
  - c) claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees including claims insured by usual personal injury liability coverage; and
  - d) from claims for injury to or destruction of tangible property including loss of use resulting therefrom any or all of which claims may arise out of, or result from, the services, work and operations carried out pursuant to and under the requirements of the contract documents, whether such services, work and operations be by the contractor, its employees, or by subcontractor(s), or anyone employed by or under the supervision of any of them, or for whose acts any of them may be legally liable.
- 2) This insurance shall be obtained and written for not less than the limits of liability specified hereinafter, or as required by law, whichever is greater.
- 3) The FGUA shall require and shall be responsible for assuring throughout the time the contract is in effect, that any and all of its subcontractors obtain and maintain until the completion of that subcontractor's work, such of the insurance coverages described herein as are required by law to be provided on behalf of their employees and others.
- 4) The FGUA and/or its contractors shall obtain, have and maintain during the entire period of the contract insurance policies, which contain the following information and provisions:
- a) the name and type of policy and coverages provided;
  - b) the amount or limit applicable to each coverage provided;
  - c) the date of expiration of coverage;
  - d) the designation of the FGUA as an additional insured and a certificate holder (This requirement may be excepted for worker's compensation and professional liability insurance.); and
  - e) the following clause must appear on the certificate of insurance:

Should any material change occur in any of the above described policies or should any of said policies be canceled before the expiration date thereof, the issuing company will mail at least **thirty** (30) days written notice to the FGUA.

- 5) If the initial, or any subsequently issued certificate of insurance expires prior to the completion of the work or termination of the contract, the contractor shall furnish to the FGUA, in triplicate,

renewal or replacement certificate(s) of insurance not later than thirty (30) calendar days prior to the date of their expiration. Failure of the contractor to provide the FGUA with such renewal certificate(s) shall be considered justification for the FGUA to terminate the contract.

- 6) The contractor shall include the FGUA, the FGUA's agents, officers and employees in the contractor's general liability and automobile liability policies as additional insureds.
- 7) If the FGUA has any objection to the coverage afforded by other provisions of the insurance required to be purchased and maintained by the contractor in accordance with the requirements of the contract documents on the basis of its not complying with the contract documents, FGUA shall notify the contractor in writing thereof within thirty (30) days of the delivery of such certificates to FGUA. The contractor shall provide to the FGUA such additional information with respect to its insurance as may be requested.
- 8) The FGUA and/or its contractors shall obtain and maintain the following insurance coverages as provided hereinbefore, and in the type, amounts and in conformance with the following minimum requirements:

Workers Compensation

State: statutory

Applicable Federal (e.g. Longshoremen's): statutory

Employer's liability: \$1,000,000.00

Comprehensive General Liability

Bodily injury: \$1,000,000.00 each occurrence

Property damage: \$1,000,000.00 each occurrence

Comprehensive general liability insurance shall include contractual liability, explosion, collapse and underground coverages and products and completed operations coverages.

Comprehensive Automobile Liability

Bodily injury: \$1,000,000.00 each occurrence

Property damage: \$1,000,000.00 each

occurrence

Comprehensive automobile liability shall include coverage for any owned auto, non-owned autos and hired autos.

## **Appendix C – Excerpts from NFRWSP & BEBR Report**

Table B-4. Public Supply Population Served and Water Use for 2015, Public Supply Population and 5-in-10 Year Water Demand Projections for 2020-2045, and 1-in-10 Year Water Demand Projections for 2045 by County in Region 1 of the St. Johns River Water Management District and the North Florida Regional Water Supply Planning Region of the Suwannee River Water Management District.

County	District	Population Served	Population Projections							Water Use			Demand Projections (5-in-10)																										Percent Change	Demand Projections (1-in-10)			
										2015			2020				2025				2030				2035				2040				2045				2045						
			2015	2020	2025	2030	2035	2040	2045	Ground	Surface	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	2015-2045	Ground	Surface	Other	Total						
Alachua	SJRWMD	193,618	200,674	210,090	219,025	225,905	231,938	236,675	22.44	0.00	22.44	23.57	0.00	0.00	23.57	24.68	0.00	0.00	24.68	25.71	0.00	0.00	25.71	26.53	0.00	0.00	26.53	27.23	0.00	0.00	27.23	27.78	24%	29.45	0.00	0.00	29.45						
Alachua	SRWMD	22,595	25,652	26,022	27,674	29,142	29,640	29,934	2.35	0.00	2.35	2.68	0.00	0.00	2.68	2.71	0.00	0.00	2.71	2.87	0.00	0.00	2.87	3.04	0.00	0.00	3.04	3.10	0.00	0.00	3.10	3.13	33%	3.33	0.00	0.00	3.33						
Alachua	Total	216,213	226,326	236,112	246,699	255,047	261,578	266,609	24.79	0.00	24.79	26.25	0.00	0.00	26.25	27.39	0.00	0.00	27.39	28.58	0.00	0.00	28.58	29.57	0.00	0.00	29.57	30.33	0.00	0.00	30.33	30.91	25%	32.78	0.00	0.00	32.78						
Baker	SJRWMD	6,865	7,045	7,309	7,833	7,998	8,030	8,030	0.92	0.00	0.92	0.95	0.00	0.00	0.95	0.99	0.00	0.00	0.99	1.06	0.00	0.00	1.06	1.08	0.00	0.00	1.08	1.09	0.00	0.00	1.09	1.09	18%	1.15	0.00	0.00	1.15						
Baker	SRWMD	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A							
Baker	Total	6,865	7,045	7,309	7,833	7,998	8,030	8,030	0.92	0.00	0.92	0.95	0.00	0.00	0.95	0.99	0.00	0.00	0.99	1.06	0.00	0.00	1.06	1.08	0.00	0.00	1.08	1.09	0.00	0.00	1.09	1.09	18%	1.15	0.00	0.00	1.15						
Bradford	SJRWMD	115	122	145	155	155	155	155	0.04	0.00	0.04	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	-75%	0.01	0.00	0.00	0.01						
Bradford	SRWMD	7,462	8,843	9,029	9,181	9,301	9,398	9,542	0.94	0.00	0.94	1.04	0.00	0.00	1.04	1.05	0.00	0.00	1.05	1.07	0.00	0.00	1.07	1.08	0.00	0.00	1.08	1.09	0.00	0.00	1.09	1.11	18%	1.17	0.00	0.00	1.17						
Bradford	Total	7,577	8,965	9,174	9,336	9,456	9,553	9,697	0.98	0.00	0.98	1.05	0.00	0.00	1.05	1.06	0.00	0.00	1.06	1.08	0.00	0.00	1.08	1.09	0.00	0.00	1.09	1.10	0.00	0.00	1.10	1.12	14%	1.18	0.00	0.00	1.18						
Clay	SJRWMD	137,842	156,111	182,502	210,459	241,460	257,818	273,618	12.89	0.00	12.89	13.72	0.00	0.00	13.72	18.33	0.00	0.00	18.33	20.64	0.00	0.00	20.64	23.22	0.00	0.00	23.22	24.47	0.00	0.00	24.47	25.57	98%	26.10	0.00	1.41	27.51						
Columbia	SRWMD	18,767	19,425	19,986	20,551	21,134	21,730	22,346	3.32	0.00	3.32	3.47	0.00	0.00	3.47	5.74	0.00	0.00	5.74	5.84	0.00	0.00	5.84	5.94	0.00	0.00	5.94	6.05	0.00	0.00	6.05	6.16	86%	6.53	0.00	0.00	6.53						
Duval	SJRWMD	693,374	863,174	904,898	946,901	988,155	1,031,118	1,070,918	106.34	0.00	106.34	115.27	0.00	0.00	115.27	124.03	0.00	0.00	124.03	132.85	0.00	0.00	132.85	140.04	0.00	1.51	141.55	140.37	0.00	10.07	150.44	140.37	0.00	18.60	158.97	49%	168.51	0.00	27.68	168.51			
Flagler	SJRWMD	94,805	107,845	120,892	130,769	139,582	145,212	149,355	8.98	0.07	9.05	10.26	0.03	0.00	10.29	11.42	0.03	0.00	11.45	12.42	0.03	0.00	12.45	13.23	0.03	0.00	13.26	13.76	0.03	0.00	13.79	14.30	0.03	0.00	14.33	58%	15.15	0.03	0.00	15.18			
Gilchrist	SRWMD	2,125	2,220	2,486	2,710	2,863	2,880	2,880	0.22	0.00	0.22	0.22	0.00	0.00	0.22	0.25	0.00	0.00	0.25	0.27	0.00	0.00	0.27	0.28	0.00	0.00	0.28	0.28	0.00	0.00	0.28	0.28	27%	0.30	0.00	0.00	0.30						
Hamilton	SRWMD	5,076	5,212	5,255	5,278	5,278	5,278	5,312	0.91	0.00	0.91	1.03	0.00	0.00	1.03	1.03	0.00	0.00	1.03	1.03	0.00	0.00	1.03	1.03	0.00	0.00	1.03	1.03	0.00	0.00	1.03	1.03	13%	1.09	0.00	0.00	1.09						
Nassau	SJRWMD	69,384	59,112	67,336	76,515	83,392	90,431	97,308	6.92	0.00	6.92	7.85	0.00	0.00	7.85	8.05	0.00	0.00	8.05	8.24	0.00	0.00	8.24	8.24	0.00	0.00	8.24	8.26	0.00	0.00	8.26	8.26	19%	8.60	0.00	0.00	8.60						
Putnam	SJRWMD	21,222	21,894	22,161	22,292	22,515	22,741	22,993	2.18	0.00	2.18	2.11	0.00	0.00	2.11	2.12	0.00	0.00	2.12	2.13	0.00	0.00	2.13	2.15	0.00	0.00	2.15	2.16	0.00	0.00	2.16	2.18	0%	2.31	0.00	0.00	2.31						
St. Johns	SJRWMD	173,216	248,420	296,645	334,151	369,247	402,807	437,538	19.21	0.00	19.21	25.10	0.00	0.00	25.10	28.43	0.00	0.00	28.43	30.60	0.00	0.00	30.60	32.51	0.00	0.00	32.51	34.28	0.00	0.00	34.28	35.86	87%	36.20	0.00	0.00	36.20						
Suwannee	SRWMD	7,491	8,125	8,961	9,527	10,012	10,265	10,438	1.32	0.00	1.32	1.45	0.00	0.00	1.45	1.61	0.00	0.00	1.61	1.73	0.00	0.00	1.73	1.79	0.00	0.00	1.79	1.84	0.00	0.00	1.84	1.87	42%	1.98	0.00	0.00	1.98						
Union	SRWMD	1,742	1,850	1,885	1,885	1,905	1,905	1,905	0.26	0.00	0.26	0.24	0.00	0.00	0.24	0.24	0.00	0.00	0.24	0.24	0.00	0.00	0.24	0.25	0.00	0.00	0.25	0.25	0.00	0.00	0.25	0.25	-4%	0.27	0.00	0.00	0.27						
SJRWMD Region 1 Total		1,390,441	1,664,397	1,811,978	1,948,100	2,078,409	2,190,250	2,296,590	179.92	0.07	179.99	198.84	0.03	0.00	198.87	218.06	0.03	0.00	218.09	233.66	0.03	0.00	233.69	247.01	0.03	1.51	248.55	251.63	0.03	10.07	261.73	255.42	0.03	18.60	274.05	52%	287.48	0.03	29.09	288.92			
SRWMD NFRWSP Total		65,258	71,327	73,624	76,806	79,635	81,096	82,357	9.32	0.00	9.32	10.13	0.00	0.00	10.13	12.63	0.00	0.00	12.63	13.05	0.00	0.00	13.05	13.41	0.00	0.00	13.41	13.64	0.00	0.00	13.64	13.83	0.00	0.00	13.83	48%	14.67	0.00	0.00	14.67			
NFRWSP Total		1,455,699	1,735,724	1,885,602	2,024,906	2,158,044	2,271,346	2,378,947	189.24	0.07	189.31	208.97	0.03	0.00	209.00	230.69	0.03	0.00	230.72	246.71	0.03	0.00	246.74	260.42	0.03	1.51	261.96	265.27	0.03	10.07	275.37	269.25	0.03	18.60	287.88	52%	302.15	0.03	29.09	303.59			

Notes:

- 1.) All water use is shown in million gallons per day.
- 2.) Rounding errors account for nominal discrepancies.
- 3.) 1-in-10 rainfall year demand for 2045 calculated as an additional 6 percent of 2045 average demand.
- 4.) The Other water source category represents water demand exceeding the permittee's groundwater withdrawal limit as identified in the Black Creek Water Resource Development Project Participation Agreement.

Table B-5. Public Supply Population Served and Water Use for 2015 and Public Supply Population Projections for 2020-2045, 5-in-10 Year Water Demand Projections for 2020-2045 and 1-in-10 Year Water Demand Projections for 2045 by County and Utility, in Region 1 of the St. Johns River Water Management District and the North Florida Regional Water Supply Planning Region of the Suwannee River Water Management District.

County	Utility	CUP Number	Population Served	Population Projections								Buildout	Percent Change 2015-2045	Water Use			Demand Projections (5-in-10)												Percent Change 2015-2045	2014-2018 Avg Gross GPCD	Demand Projections (1-in-10)							
				2015	2020	2025	2030	2035	2040	2045	2015			2020	2025	2030	2035	2040	2015	2020	2025	2030	2035	2040	2015	2020	2025	2030			2035	2040	2015	2020	2025	2030	2035	2040
Alachua - SJRWMD	City of Hawthorne	1674	1,508	1,530	1,530	2,136	2,136	2,409	2,426	5,653	61%	0.14	0.14	0.14	0.13	0.13	0.00	0.00	0.13	0.13	0.13	0.00	0.00	0.13	0.13	0.19	0.00	0.00	0.19	0.21	0.00	0.00	0.21	0.21	0.00	0.00	0.22	
	Gainesville Regional Utilities (includes SRWMD)	11339	189,400	196,495	205,855	213,933	220,815	226,575	231,285	244,351	22%	22.06	22.06	22.06	23.19	23.19	0.00	0.00	23.19	24.29	24.29	0.00	0.00	24.29	25.24	25.24	25.06	25.74	26.06	26.74	27.29	27.29	24%	118	28.93	0.00	28.93	
	Kincaid Hills Water Company	620	620	620	654	654	654	654	654	665	5%	0.09	0.09	0.09	0.10	0.10	0.00	0.00	0.11	0.11	0.11	0.00	0.00	0.11	0.11	0.11	0.00	0.00	0.11	0.11	0.00	0.00	0.11	0.11	0.00	0.00		
	Town of Micanopy	11356	824	824	824	1,073	1,073	1,073	1,073	1,330	30%	0.06	0.06	0.06	0.06	0.06	0.00	0.00	0.06	0.06	0.06	0.00	0.00	0.06	0.06	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.08	0.08	0.00	0.00	0.08	
	Arredondo Utility Co / Aqua Source Utilities	11364, 132141	1,266	1,205	1,227	1,227	1,227	1,227	1,227	1,227	2,037	-3%	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.09	0.09	0.09	0.00	0.00	0.09	0.09	0.09	0.00	0.00	0.09	0.09	0.00	0.00	0.09	0.09	0.10		
Alachua - SRWMD	SJRWMD Alachua Total		193,618	200,674	210,090	219,025	225,905	231,938	236,675	254,036	22%	22.44	22.44	22.44	23.57	23.57	0.00	0.00	23.57	24.68	24.68	0.00	0.00	24.68	25.71	25.71	25.53	26.21	26.53	27.23	27.78	27.78	24%	74	29.45	0.00	29.45	
	City of Newberry	216450	5,026	6,305	7,168	7,427	7,631	7,811	7,973	15,166	59%	0.52	0.52	0.52	0.73	0.73	0.00	0.00	0.73	0.75	0.75	0.00	0.00	0.75	0.78	0.78	0.78	0.80	0.80	0.80	0.80	0.82	0.84	0.00	0.00	0.84		
	City of Archer	216647	1,273	1,304	1,304	1,304	1,304	1,304	1,304	1,304	24%	0.14	0.14	0.14	0.14	0.14	0.00	0.00	0.14	0.14	0.14	0.00	0.00	0.14	0.14	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12		
	City of High Springs Water Plant	216833	5,684	6,221	6,221	7,213	7,230	7,230	7,230	14,137	27%	0.46	0.46	0.46	0.52	0.52	0.00	0.00	0.52	0.52	0.52	0.00	0.00	0.52	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61		
	City of Waldo	217300	947	960	960	1,230	1,230	1,230	1,230	3,654	30%	0.06	0.06	0.06	0.07	0.07	0.00	0.00	0.07	0.07	0.09	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
Baker - SJRWMD	City of Alachua	220667	9,665	10,262	10,349	10,500	11,747	11,793	11,925	49,112	23%	1.17	1.17	1.17	1.24	1.24	0.00	0.00	1.24	1.25	1.27	0.00	0.00	1.27	1.42	1.42	1.42	1.43	1.43	1.43	1.44	1.44	1.44	1.44	1.44	1.44		
	SRWMD Alachua Total		22,595	25,652	26,022	27,674	29,142	29,640	29,934	88,392	32%	2.35	2.35	2.35	2.68	2.68	0.00	0.00	2.68	2.71	2.87	0.00	0.00	2.87	3.04	3.04	3.04	3.10	3.10	3.10	3.10	3.13	3.13	3.13	3.13	3.13	N/A	
	City of Macclenny	15	6,430	6,591	6,807	7,331	7,496	7,528	7,528	30,803	17%	0.89	0.89	0.89	0.92	0.92	0.00	0.00	0.92	0.95	0.95	0.00	0.00	0.95	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
	Town of Glen St Mary	24	435	454	502	502	502	502	502	1,865	15%	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.03	0.04	0.04	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
	SJRWMD Baker Total		6,865	7,045	7,309	7,833	7,998	8,030	8,030	31,392	17%	0.92	0.92	0.92	0.95	0.95	0.00	0.00	0.95	0.99	1.06	0.00	0.00	1.06	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Bradford - SJRWMD	Clay County Utility Authority	431	115	122	145	155	155	155	155	181	35%	0.04	0.04	0.04	0.04	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
	SJRWMD Bradford Total		115	122	145	155	155	155	155	181	35%	0.04	0.04	0.04	0.04	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
	City of Starke	216650	6,585	7,954	8,140	8,292	8,412	8,509	8,653	14,573	31%	0.75	0.75	0.75	0.84	0.84	0.00	0.00	0.84	0.85	0.87	0.00	0.00	0.87	0.88	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89		
	City of Lawley	216998	889	889	889	889	889	889	889	889	1,865	1%	0.19	0.19	0.19	0.20	0.20	0.00	0.00	0.20	0.20	0.20	0.00	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
	SJRWMD Bradford Total		7,474	8,843	9,029	9,181	9,301	9,398	9,542	16,439	28%	0.94	0.94	0.94	1.04	1.04	0.00	0.00	1.04	1.05	1.07	0.00	0.00	1.07	1.08	1.08	1.08	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Clay - SJRWMD	Clay County Utility Authority	416, 431, 137335	115,456	126,966	149,238	173,816	201,719	214,888	227,726	410,001	97%	11.00	11.00	11.00	11.65	11.65	0.00	0.00	11.65	16.07	16.32	0.00	0.00	16.32	20.88	20.88	20.88	22.09	22.09	22.09	22.09	22.09	22.09	22.09	22.09	22.09	22.09	
	Town of Orange Park	453	9,042	10,076	10,076	10,076	10,076	10,076	10,076	10,076	11%	0.89	0.89	0.89	0.98	0.98	0.00	0.00	0.98	0.98	0.98	0.00	0.00	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98		
	City of Green Cove Springs	499	6,500	6,763	7,920	8,338	8,474	8,702	8,702	10,348	34%	1.00	1.00	1.00	1.09	1.09	0.00	0.00	1.09	1.28	1.34	0.00	0.00	1.34	1.36	1.36	1.36	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	
	JEA (Also in Duval, Nassau, St. Johns)	88271	6,844	12,306	15,268	18,229	21,191	24,152	27,114	10,851	296%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	SJRWMD Clay Total		137,842	156,111	182,502	210,459	241,460	257,818	273,618	441,276	99%	12.89	12.89	12.89	13.72	13.72	0.00	0.00	13.72	18.33	20.64	0.00	0.00	20.64	23.22	23.22	23.22	24.47	24.47	24.47	24.47	24.47	24.47	24.47	24.47	24.47	24.47	
Columbia - SRWMD	City of Lake City	217754	18,697	19,350	19,898	20,461	21,040	21,636	22,252	59,148	19%	3.28	3.28	3.28	3.42	3.42	0.00	0.00	3.42	3.52	3.62	0.00	0.00	3.62	3.72	3.72	3.72	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83		
	Columbia County Board of Commissioners	220704	70	75	88	90	94	94	94	465	34%	0.04	0.04	0.04	0.05	0.05	0.00	0.00	0.05	0.06	0.06	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06		
	North Florida Mega Industrial Park Wellfield	239112	0	0	0	0	0	0	0	0	0%	0.00	0.00	0.00	0.00	0.00	0																					

Table B-6. Domestic Self-supply and Small Public Supply Systems Population and Water Use for 2015 and 5-in-10 Year Water Demand Projections for 2020-2045, and 1-in-10 Year Water Demand Projections for 2045 by County, in Region 1 of the St. Johns River Water Management District and the North Florida Regional Water Supply Planning Region of the Suwannee River Water Management District.

County	District	Population	Population Projections						Percent Change	Water Use		Demand Projections (5-in-10)																Percent Change	Demand Projections (1-in-10)												
										2015		2020		2025		2030		2035		2040		2045		2045																	
			2015	2020	2025	2030	2035	2040	2045	2015-2045	Ground	Surface	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	Ground	Surface	Other	Total	2015-2045	Ground	Surface	Other	Total							
Alachua	SJRWMD	9,486	9,756	10,120	11,998	11,998	13,089	14,518	53%	0.65	0.00	0.65	0.67	0.00	0.00	0.67	0.70	0.00	0.00	0.70	0.83	0.00	0.00	0.83	0.83	0.00	0.00	0.83	0.90	0.00	0.00	0.90	1.00	0.00	0.00	1.00	54%	1.06	0.00	0.00	1.06
Alachua	SRWMD	28,769	33,253	34,803	32,421	32,655	32,209	31,624	10%	1.51	0.00	1.51	1.74	0.00	0.00	1.74	1.82	0.00	0.00	1.82	1.69	0.00	0.00	1.69	1.70	0.00	0.00	1.70	1.68	0.00	0.00	1.68	1.65	0.00	0.00	1.65	9%	1.75	0.00	0.00	1.75
Alachua	Total	38,255	43,009	44,923	44,419	44,653	45,298	46,142	21%	2.16	0.00	2.16	2.41	0.00	0.00	2.41	2.52	0.00	0.00	2.52	2.52	0.00	0.00	2.52	2.53	0.00	0.00	2.53	2.58	0.00	0.00	2.58	2.65	0.00	0.00	2.65	23%	2.81	0.00	0.00	2.81
Baker	SJRWMD	19,691	20,395	21,529	22,193	22,924	23,637	24,364	24%	2.07	0.00	2.07	2.43	0.00	0.00	2.43	2.56	0.00	0.00	2.56	2.64	0.00	0.00	2.64	2.73	0.00	0.00	2.73	2.81	0.00	0.00	2.81	2.90	0.00	0.00	2.90	40%	3.07	0.00	0.00	3.07
Baker	SRWMD	503	521	549	573	591	609	623	24%	0.05	0.00	0.05	0.06	0.00	0.00	0.06	0.06	0.00	0.00	0.06	0.06	0.00	0.00	0.06	0.06	0.00	0.00	0.06	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.07	40%	0.07	0.00	0.00	0.07
Baker	Total	20,194	20,916	22,078	22,766	23,515	24,246	24,987	24%	2.12	0.00	2.12	2.49	0.00	0.00	2.49	2.62	0.00	0.00	2.62	2.70	0.00	0.00	2.70	2.79	0.00	0.00	2.79	2.88	0.00	0.00	2.88	2.97	0.00	0.00	2.97	40%	3.14	0.00	0.00	3.14
Bradford	SJRWMD	2,174	2,353	2,727	2,914	2,914	3,079	3,263	50%	0.13	0.00	0.13	0.21	0.00	0.00	0.21	0.25	0.00	0.00	0.25	0.27	0.00	0.00	0.27	0.27	0.00	0.00	0.27	0.28	0.00	0.00	0.28	0.30	0.00	0.00	0.30	131%	0.32	0.00	0.00	0.32
Bradford	SRWMD	13,289	12,251	12,068	11,939	12,050	11,884	11,414	-14%	0.62	0.00	0.62	0.57	0.00	0.00	0.57	0.56	0.00	0.00	0.56	0.56	0.00	0.00	0.56	0.56	0.00	0.00	0.56	0.55	0.00	0.00	0.55	0.54	0.00	0.00	0.54	-13%	0.53	0.00	0.00	0.53
Bradford	Total	15,463	14,604	14,795	14,853	14,964	14,963	14,677	-5%	0.75	0.00	0.75	0.78	0.00	0.00	0.78	0.81	0.00	0.00	0.81	0.83	0.00	0.00	0.83	0.83	0.00	0.00	0.83	0.83	0.00	0.00	0.83	0.84	0.00	0.00	0.84	12%	0.85	0.00	0.00	0.85
Clay	SJRWMD	64,758	64,760	64,876	64,937	65,010	64,951	64,892	0%	6.20	0.00	6.20	4.76	0.00	0.00	4.76	4.77	0.00	0.00	4.77	4.77	0.00	0.00	4.77	4.78	0.00	0.00	4.78	4.77	0.00	0.00	4.77	4.77	0.00	0.00	4.77	-23%	5.06	0.00	0.00	5.06
Columbia	SRWMD	45,270	46,898	49,337	51,272	52,689	53,793	54,677	21%	2.63	0.00	2.63	2.73	0.00	0.00	2.73	2.87	0.00	0.00	2.87	2.98	0.00	0.00	2.98	3.06	0.00	0.00	3.06	3.13	0.00	0.00	3.13	3.19	0.00	0.00	3.19	21%	3.33	0.00	0.00	3.33
Duval	SJRWMD	158,510	164,146	168,733	170,420	170,879	169,623	167,483	6%	14.74	0.00	14.74	15.92	0.00	0.00	15.92	16.37	0.00	0.00	16.37	16.53	0.00	0.00	16.53	16.58	0.00	0.00	16.58	16.45	0.00	0.00	16.45	16.25	0.00	0.00	16.25	10%	17.23	0.00	0.00	17.23
Flagler	SJRWMD	4,964	5,542	5,596	6,992	7,114	7,258	7,671	55%	0.26	0.00	0.26	0.30	0.00	0.00	0.30	0.30	0.00	0.00	0.30	0.38	0.00	0.00	0.38	0.39	0.00	0.00	0.39	0.39	0.00	0.00	0.39	0.40	0.00	0.00	0.40	54%	0.42	0.00	0.00	0.42
Gilchrist	SRWMD	14,033	14,994	15,628	16,204	16,751	17,234	17,734	26%	0.99	0.00	0.99	1.06	0.00	0.00	1.06	1.11	0.00	0.00	1.11	1.15	0.00	0.00	1.15	1.19	0.00	0.00	1.19	1.22	0.00	0.00	1.22	1.26	0.00	0.00	1.26	27%	1.34	0.00	0.00	1.34
Hamilton	SRWMD	7,065	6,869	7,026	7,103	7,103	7,103	7,169	1%	0.65	0.00	0.65	0.64	0.00	0.00	0.64	0.65	0.00	0.00	0.65	0.66	0.00	0.00	0.66	0.66	0.00	0.00	0.66	0.66	0.00	0.00	0.66	0.67	0.00	0.00	0.67	3%	0.71	0.00	0.00	0.71
Nassau	SJRWMD	8,433	9,538	11,516	12,355	13,436	14,311	15,120	79%	1.11	0.00	1.11	1.49	0.00	0.00	1.49	1.72	0.00	0.00	1.72	1.85	0.00	0.00	1.85	2.03	0.00	0.00	2.03	2.16	0.00	0.00	2.16	2.28	0.00	0.00	2.28	105%	2.42	0.00	0.00	2.42
Putnam	SJRWMD	56,398	56,295	56,300	56,304	56,310	56,317	56,324	0%	2.82	0.00	2.82	3.24	0.00	0.00	3.24	3.24	0.00	0.00	3.24	3.24	0.00	0.00	3.24	3.24	0.00	0.00	3.24	3.24	0.00	0.00	3.24	3.24	0.00	0.00	3.24	15%	3.43	0.00	0.00	3.43
St. Johns	SJRWMD	43,297	52,110	51,807	51,459	51,111	50,763	50,415	16%	2.96	0.00	2.96	4.58	0.00	0.00	4.58	4.56	0.00	0.00	4.56	4.53	0.00	0.00	4.53	4.50	0.00	0.00	4.50	4.47	0.00	0.00	4.47	4.44	0.00	0.00	4.44	50%	4.70	0.00	0.00	4.70
Suwannee	SRWMD	34,041	35,774	37,338	38,872	40,087	41,234	42,261	24%	2.22	0.00	2.22	2.34	0.00	0.00	2.34	2.48	0.00	0.00	2.48	2.58	0.00	0.00	2.58	2.66	0.00	0.00	2.66	2.73	0.00	0.00	2.73	2.80	0.00	0.00	2.80	26%	2.96	0.00	0.00	2.96
Union	SRWMD	9,273	8,917	8,982	8,982	9,062	9,062	9,062	-2%	0.66	0.00	0.66	0.65	0.00	0.00	0.65	0.65	0.00	0.00	0.65	0.65	0.00	0.00	0.65	0.66	0.00	0.00	0.66	0.66	0.00	0.00	0.66	0.66	0.00	0.00	0.66	0%	0.70	0.00	0.00	0.70
SJRWMD Region 1 Total		367,711	384,895	393,204	399,572	401,696	403,028	404,050	16%	30.94	0.00	30.94	33.60	0.00	0.00	33.60	34.47	0.00	0.00	34.47	35.04	0.00	0.00	35.04	35.35	0.00	0.00	35.35	35.47	0.00	0.00	35.47	35.58	0.00	0.00	35.58	15%	37.71	0.00	0.00	37.71
SRWMD NFRWSP Total		152,243	159,477	165,731	167,366	170,988	173,128	174,564	15%	9.33	0.00	9.33	9.79	0.00	0.00	9.79	10.20	0.00	0.00	10.20	10.33	0.00	0.00	10.33	10.55	0.00	0.00	10.55	10.70	0.00	0.00	10.70	10.84	0.00	0.00	10.84	16%	11.39	0.00	0.00	11.39
NFRWSP Total		519,954	544,372	558,935	566,938	572,684	576,156	578,614	11%	40.27	0.00	40.27	43.39	0.00	0.00	43.39	44.67	0.00	0.00	44.67	45.37	0.00	0.00	45.37	45.90	0.00	0.00	45.90	46.17	0.00	0.00	46.17	46.42	0.00	0.00	46.42	15%	49.10	0.00	0.00	49.10

Notes:

1.) All water use is shown in million gallons per day.

2.) Rounding errors account for nominal discrepancies.

3.) Public water supply utility service areas often include residences that derive their water supply from privately owned (domestic self-supply) wells. Typically, these domestic self-supply water uses existed prior to their locations becoming part of public water supply service areas. For public water supply service areas, the Districts do not have sufficient information to separate the populations served by public supply systems from those served by domestic self-supply wells. Therefore, public water supply populations estimated often include some domestic self-supply population.

4.) 1-in-10 rainfall year demand for 2045 calculated as an additional 6 percent of 2045 average demand.

5.) The Other water source category represents water demand exceeding the permittee's groundwater withdrawal limit as identified in the Black Creek Water Resource Development Project Participation Agreement.

Table B-6a. Domestic Self-Supply Population and Water Use for 2015 and Population Projections for 2020-2045, 5-in-10 Year Water Demand Projections for 2020-2045 and 1-in-10 Year Water Demand Projections for 2045 by County, in Region 1 of the St. Johns River Water Management District and the North Florida Regional Water Supply Planning Region of the Suwannee River Water Management District.

County	District	Population	Population Projections						Percent Change 2015-2045	Water Use			Demand Projections (5-in-10)												Percent Change 2015-2045	2014-2018 Avg GPCD	Demand Projections (1-in-10)															
										2015			2020				2025				2030						2035				2040				2045							
		2015	2020	2025	2030	2035	2040	2045		GW	SW	Total	GW	SW	Other	Total	GW	SW	Other	Total	GW	SW	Other	Total			GW	SW	Other	Total	GW	SW	Other	Total								
Alachua	SJRWMD	9,486	9,756	10,120	11,998	11,998	13,089	14,518	53%	0.65	0.00	0.65	0.67	0.00	0.00	0.67	0.70	0.00	0.00	0.70	0.83	0.00	0.00	0.83	0.83	0.00	0.00	0.83	0.90	0.00	0.00	0.90	1.00	0.00	0.00	1.00	54%	69	1.06	0.00	0.00	1.06
Alachua	SRWMD	28,504	32,984	34,534	32,152	32,386	31,940	31,355	10%	1.49	0.00	1.49	1.72	0.00	0.00	1.72	1.80	0.00	0.00	1.80	1.67	0.00	0.00	1.67	1.68	0.00	0.00	1.68	1.66	0.00	0.00	1.66	1.63	0.00	0.00	1.63	9%	52	1.73	0.00	0.00	1.73
Alachua	Total	37,990	42,740	44,654	44,150	44,384	45,029	45,873	21%	2.14	0.00	2.14	2.39	0.00	0.00	2.39	2.50	0.00	0.00	2.50	2.50	0.00	0.00	2.50	2.51	0.00	0.00	2.51	2.56	0.00	0.00	2.56	2.63	0.00	0.00	2.63	23%	N/A	2.79	0.00	0.00	2.79
Baker	SJRWMD	19,691	20,395	21,529	22,193	22,924	23,637	24,364	24%	2.07	0.00	2.07	2.43	0.00	0.00	2.43	2.56	0.00	0.00	2.56	2.64	0.00	0.00	2.64	2.73	0.00	0.00	2.73	2.81	0.00	0.00	2.81	2.90	0.00	0.00	2.90	40%	119	3.07	0.00	0.00	3.07
Baker	SRWMD	503	521	549	573	591	609	623	24%	0.05	0.00	0.05	0.06	0.00	0.00	0.06	0.06	0.00	0.00	0.06	0.06	0.00	0.00	0.06	0.06	0.00	0.00	0.06	0.07	0.00	0.00	0.07	0.07	0.00	0.00	0.07	40%	109	0.07	0.00	0.00	0.07
Baker	Total	20,194	20,916	22,078	22,766	23,515	24,246	24,987	24%	2.12	0.00	2.12	2.49	0.00	0.00	2.49	2.62	0.00	0.00	2.62	2.70	0.00	0.00	2.70	2.79	0.00	0.00	2.79	2.88	0.00	0.00	2.88	2.97	0.00	0.00	2.97	40%	N/A	3.14	0.00	0.00	3.14
Bradford	SJRWMD	2,174	2,353	2,727	2,914	2,914	3,079	3,263	50%	0.13	0.00	0.13	0.21	0.00	0.00	0.21	0.25	0.00	0.00	0.25	0.27	0.00	0.00	0.27	0.27	0.00	0.00	0.27	0.28	0.00	0.00	0.28	0.30	0.00	0.00	0.30	131%	91	0.32	0.00	0.00	0.32
Bradford	SRWMD	12,502	11,437	11,254	11,125	11,236	11,070	10,766	-14%	0.53	0.00	0.53	0.48	0.00	0.00	0.48	0.47	0.00	0.00	0.47	0.47	0.00	0.00	0.47	0.47	0.00	0.00	0.47	0.46	0.00	0.00	0.46	0.45	0.00	0.00	0.45	-15%	42	0.48	0.00	0.00	0.48
Bradford	Total	14,676	13,790	13,981	14,039	14,150	14,149	14,029	-4%	0.66	0.00	0.66	0.69	0.00	0.00	0.69	0.72	0.00	0.00	0.72	0.74	0.00	0.00	0.74	0.74	0.00	0.00	0.74	0.74	0.00	0.00	0.74	0.75	0.00	0.00	0.75	14%	N/A	0.80	0.00	0.00	0.80
Clay	SJRWMD	63,061	63,061	63,061	63,061	63,002	62,943	62,884	0%	6.05	0.00	6.05	4.60	0.00	0.00	4.60	4.60	0.00	0.00	4.60	4.60	0.00	0.00	4.60	4.60	0.00	0.00	4.60	4.59	0.00	0.00	4.59	4.59	0.00	0.00	4.59	-24%	73	4.87	0.00	0.00	4.87
Columbia	SRWMD	42,898	44,510	46,949	48,894	50,301	51,356	52,121	21%	2.38	0.00	2.38	2.49	0.00	0.00	2.49	2.63	0.00	0.00	2.63	2.74	0.00	0.00	2.74	2.82	0.00	0.00	2.82	2.88	0.00	0.00	2.88	2.92	0.00	0.00	2.92	23%	56	3.10	0.00	0.00	3.10
Duval	SJRWMD	158,510	164,146	168,733	170,420	170,879	169,623	167,483	6%	14.74	0.00	14.74	15.92	0.00	0.00	15.92	16.37	0.00	0.00	16.37	16.53	0.00	0.00	16.53	16.58	0.00	0.00	16.58	16.45	0.00	0.00	16.45	16.25	0.00	0.00	16.25	10%	97	17.23	0.00	0.00	17.23
Flagler	SJRWMD	4,584	5,162	6,216	6,612	6,734	6,859	6,864	50%	0.25	0.00	0.25	0.29	0.00	0.00	0.29	0.29	0.00	0.00	0.29	0.37	0.00	0.00	0.37	0.38	0.00	0.00	0.38	0.38	0.00	0.00	0.38	0.38	0.00	0.00	0.38	52%	56	0.40	0.00	0.00	0.40
Gilchrist	SRWMD	14,033	14,994	15,628	16,204	16,751	17,234	17,734	26%	0.99	0.00	0.99	1.06	0.00	0.00	1.06	1.11	0.00	0.00	1.11	1.15	0.00	0.00	1.15	1.19	0.00	0.00	1.19	1.22	0.00	0.00	1.22	1.26	0.00	0.00	1.26	27%	71	1.34	0.00	0.00	1.34
Hamilton	SRWMD	6,634	6,438	6,595	6,672	6,672	6,672	6,738	2%	0.59	0.00	0.59	0.58	0.00	0.00	0.58	0.59	0.00	0.00	0.59	0.60	0.00	0.00	0.60	0.60	0.00	0.00	0.60	0.60	0.00	0.00	0.60	0.61	0.00	0.00	0.61	3%	90	0.65	0.00	0.00	0.65
Nassau	SJRWMD	8,319	9,381	10,820	11,659	12,740	13,615	14,424	73%	1.10	0.00	1.10	1.43	0.00	0.00	1.43	1.64	0.00	0.00	1.64	1.77	0.00	0.00	1.77	1.94	0.00	0.00	1.94	2.07	0.00	0.00	2.07	2.19	0.00	0.00	2.19	99%	152	2.32	0.00	0.00	2.32
Putnam	SJRWMD	53,402	53,285	53,285	53,285	53,285	53,285	53,285	0%	2.62	0.00	2.62	3.04	0.00	0.00	3.04	3.04	0.00	0.00	3.04	3.04	0.00	0.00	3.04	3.04	0.00	0.00	3.04	3.04	0.00	0.00	3.04	3.04	0.00	0.00	3.04	16%	57	3.22	0.00	0.00	3.22
St. Johns	SJRWMD	41,968	50,675	50,327	49,979	49,631	49,283	48,935	17%	2.85	0.00	2.85	4.46	0.00	0.00	4.46	4.43	0.00	0.00	4.43	4.40	0.00	0.00	4.40	4.37	0.00	0.00	4.37	4.34	0.00	0.00	4.34	4.31	0.00	0.00	4.31	51%	88	4.57	0.00	0.00	4.57
Suwannee	SRWMD	33,604	35,337	36,901	38,435	39,650	40,797	41,824	24%	2.18	0.00	2.18	2.30	0.00	0.00	2.30	2.40	0.00	0.00	2.40	2.50	0.00	0.00	2.50	2.58	0.00	0.00	2.58	2.65	0.00	0.00	2.65	2.72	0.00	0.00	2.72	25%	65	2.88	0.00	0.00	2.88
Union	SRWMD	9,180	8,824	8,889	8,889	8,969	8,969	8,969	-2%	0.65	0.00	0.65	0.64	0.00	0.00	0.64	0.64	0.00	0.00	0.64	0.64	0.00	0.00	0.64	0.65	0.00	0.00	0.65	0.65	0.00	0.00	0.65	0.65	0.00	0.00	0.65	0%	72	0.69	0.00	0.00	0.69
SJRWMD Region 1 Total		361,195	378,214	385,818	392,121	394,107	395,413	396,020	10%	30.46	0.00	30.46	33.05	0.00	0.00	33.05	33.88	0.00	0.00	33.88	34.45	0.00	0.00	34.45	34.74	0.00	0.00	34.74	34.86	0.00	0.00	34.86	34.96	0.00	0.00	34.96	15%	N/A	37.06	0.00	0.00	37.06
SRWMD NFRWSP Total		147,858	155,045	161,299	162,934	166,556	168,647	170,130	15%	8.86	0.00	8.86	9.33	0.00	0.00	9.33	9.70	0.00	0.00	9.70	9.83	0.00	0.00	9.83	10.05	0.00	0.00	10.05	10.19	0.00	0.00	10.19	10.31	0.00	0.00	10.31	16%	N/A	10.94	0.00	0.00	10.94
NFRWSP Total		509,053	533,259	547,117	555,055	560,663	564,060	566,150	11%	39.32	0.00	39.32	42.38	0.00	0.00	42.38	43.58	0.00	0.00	43.58	44.28	0.00	0.00	44.28	44.79	0.00	0.00	44.79	45.05	0.00	0.00	45.05	45.27	0.00	0.00	45.27	15%	N/A	48.00	0.00	0.00	48.00

Notes:  
1.) All water use is shown in million gallons per day.  
2.) Rounding errors account for nominal discrepancies.  
3.) Projected population for years 2020 - 2045 are based on BEBR Population Projections: Volume 53, Bulletin 186, Published January 2020.  
4.) Population projections shown here are permanent population projections only and do not include any factors such as seasonal residents, tourist population or net commuter population.  
5.) Per capita used to calculate demand projections is an average from 2014 - 2018 and is calculated as (Total County-wide Residential Water Use / Total Estimated Population). This per capita is commonly referred to as a residential per capita, as it only includes the indoor and outdoor residential uses.  
6.) 1-in-10 rainfall year demand for 2045 calculated as an additional 6 percent of 2045 average demand.  
7.) All demands are expected to come from groundwater, thus surface water projections are zero.  
8.) 2015 water use data source is NFSEG master geodatabase with estimated domestic self-supply water use.  
9.) 2014 - 2018 residential county per capita rates obtained from SJRWMD and SRWMD published water use reports.  
10.) The Other water source category represents water demand exceeding the permittee's groundwater withdrawal limit as identified in the Black Creek Water Resource Development Project Participation Agreement.

## Projections of Florida Population by County, 2025–2050, with Estimates for 2023

County and State	Estimates April 1, 2023	Projections, April 1					
		2025	2030	2035	2040	2045	2050
MIAMI-DADE	2,768,954						
Low		2,673,300	2,663,100	2,630,800	2,587,800	2,543,600	2,501,800
Medium		2,814,000	2,910,500	2,981,000	3,035,500	3,083,200	3,127,200
High		2,954,700	3,157,900	3,331,300	3,483,200	3,622,700	3,752,700
MONROE	84,511						
Low		80,300	78,400	76,000	73,300	70,700	68,100
Medium		85,400	87,100	88,100	88,600	88,900	89,000
High		90,600	95,800	100,200	103,900	107,100	110,000
NASSAU	100,763						
Low		97,300	101,400	103,400	103,800	102,800	101,300
Medium		105,700	116,600	125,700	133,500	139,900	145,800
High		114,200	131,700	148,000	163,200	177,000	190,200
OKALOOSA	219,260						
Low		211,400	212,900	211,500	208,500	204,700	200,600
Medium		224,900	236,500	245,200	251,900	257,500	262,200
High		238,400	260,200	278,900	295,400	310,300	323,800
OKEECHOBEE	39,591						
Low		37,800	36,600	35,500	34,500	33,500	32,600
Medium		39,800	40,000	40,300	40,500	40,600	40,800
High		41,800	43,400	45,000	46,400	47,700	48,900
ORANGE	1,492,951						
Low		1,454,400	1,497,700	1,513,900	1,510,700	1,496,500	1,479,200
Medium		1,547,200	1,664,100	1,755,300	1,825,600	1,882,400	1,933,600
High		1,640,000	1,830,500	1,996,600	2,140,500	2,268,300	2,388,000
OSCEOLA	439,225						
Low		436,200	470,500	490,600	500,600	505,200	507,300
Medium		469,000	531,600	582,300	623,800	660,500	695,000
High		501,900	592,800	674,000	747,000	815,700	882,600
PALM BEACH	1,532,718						
Low		1,489,100	1,503,700	1,500,300	1,485,500	1,463,900	1,440,800
Medium		1,567,500	1,643,400	1,700,000	1,742,500	1,774,400	1,801,100
High		1,645,800	1,783,100	1,899,800	1,999,500	2,084,900	2,161,300
PASCO	610,743						
Low		598,400	624,100	640,000	644,400	644,100	642,200
Medium		636,600	693,400	742,100	778,700	810,200	839,500
High		674,800	762,800	844,100	913,000	976,300	1,036,700
PINELLAS	974,689						
Low		943,000	926,100	909,600	893,000	877,200	862,600
Medium		982,200	995,900	1,007,800	1,017,600	1,025,900	1,033,000
High		1,021,500	1,065,600	1,106,100	1,142,300	1,174,700	1,203,500
POLK	797,616						
Low		782,400	817,400	838,800	845,700	846,100	844,100
Medium		832,400	908,200	972,600	1,022,000	1,064,300	1,103,400
High		882,300	999,000	1,106,300	1,198,400	1,282,500	1,362,700
PUTNAM	75,906						
Low		72,600	71,000	69,000	66,900	65,100	63,500
Medium		76,400	77,600	78,100	78,500	79,000	79,400
High		80,300	84,200	87,300	90,100	92,800	95,300
ST. JOHNS	315,317						
Low		313,800	341,200	359,500	368,300	372,800	375,100
Medium		337,400	385,500	426,700	459,000	487,300	513,900
High		361,000	429,800	493,900	549,600	601,800	652,600
ST. LUCIE	368,628						
Low		362,300	381,600	394,000	400,600	404,500	406,000
Medium		385,400	423,900	456,800	484,200	508,800	530,700
High		408,600	466,300	519,600	567,700	613,100	655,400

## **Appendix D – All Active Consumptive Use Permits in Nassau County**



# St. Johns River Water Management District

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

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • [www.sjrwmd.com](http://www.sjrwmd.com)

August 2, 2024

City of Fernandina Beach  
1180 S 5th Street  
Fernandina Beach, FL 32034-4230

SUBJECT: City of Fernandina Beach, Consumptive Use Permit Number 122-7  
Nassau County, Florida

Dear Sir/Madam:

Enclosed is the permit authorized by the District on August 2, 2024. The enclosed permit is a legal document and should be kept with other important records. Please read the permit and conditions carefully because the referenced conditions may require submittal of additional information. Where possible, please submit all information required to comply with permit conditions electronically at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) via the District's e-Permitting portal.

Please be advised that the District will not publish a notice in the newspaper advising the public that the permit has been issued. Enclosed is information on publishing notice of the permit. If a newspaper notice is not published to close the point of entry, the time to challenge the issuance of the permit will not expire. A potential petitioner has 26 days from the date on which the actual notice is deposited in the mail, or 21 days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, *Florida Statutes*. Receipt of such a petition by the District may result in this permit becoming null and void. Also, enclosed is a copy of the Notice of Rights.

If you have any questions concerning the permit, please contact Paula Presley in the Jacksonville Service Center at (904) 448-7909 or Timothy Clohisy in the Jacksonville Service Center at (904) 448-7925

Sincerely,

Richard Burklew, Bureau Chief  
Water Use Regulation

**Land Owner(s):** City of Fernandina Beach

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#### GOVERNING BOARD

Rob Bradley, CHAIR  
FLEMING ISLAND

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Douglas Burnett  
ST. AUGUSTINE

Cole Oliver  
MERRITT ISLAND

Janet Price  
FERNANDINA BEACH

**ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**

**Post Office Box 1429  
Palatka, Florida 32178-1429**

**PERMIT NO:** 122-7

**DATE ISSUED:** August 2, 2024

**PROJECT NAME:** City of Fernandina Beach

**A PERMIT AUTHORIZING:**

The District authorizes, as limited by the attached permit conditions, the use of 1,489 million gallons per year (mgy) (4.08 million gallons per day (mgd), annual average) of groundwater from the Upper and Lower Floridan aquifers for public supply use (household, commercial, irrigation, and water utility) through 2029.

**LOCATION:**

Site: City of Fernandina Beach  
Nassau County

SECTION(S):

6  
22, 29

TOWNSHIP(S):

2N  
3N

RANGE(S):

28E  
28E

**ISSUED TO:**

City of Fernandina Beach  
1180 S 5th Street  
Fernandina Beach, FL 32034-4230

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal, rule, or ordinance.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

**PERMIT IS CONDITIONED UPON:**

See conditions on attached "Exhibit A", dated August 2, 2024

**AUTHORIZED BY:** St. Johns River Water Management District  
Division of Water Supply Planning and Assessment

By: 

---

Clay Coarsey  
Division Director

**"EXHIBIT A"**  
**CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 122-7**  
**City of Fernandina Beach**  
**DATE ISSUED August 02, 2024**

1. With advance notice to the permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The permittee shall either accompany District staff onto the property or make provision for access onto the property.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the permittee must adhere to the water shortage restrictions, as specified by the District. The permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order.
3. Prior to the construction, modification or abandonment of a well, the permittee must obtain a water well permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, F.A.C. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification, or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. The permittee's consumptive use of water as authorized by this permit shall not interfere with legal uses of water existing at the time of permit application. If interference occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the interference, unless the interference associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
6. The permittee's consumptive use of water as authorized by this permit shall not have significant adverse hydrologic impacts to off-site land uses existing at the time of permit application. If significant adverse hydrologic impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
7. The permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where permittee's control of the land subject to the permit was demonstrated through a lease, the permittee must either submit documentation showing that it continues to have legal control or transfer control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40C-1.612, F.A.C. Alternatively, the permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve, or other withdrawal facility as provided by Rule 40C-2.401, F.A.C. The permittee shall notify the District in the event that a replacement tag is needed.

9. The permittee's consumptive use of water as authorized by this permit shall not significantly and adversely impact wetlands, lakes, rivers, or springs. If significant adverse impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
10. The permittee's consumptive use of water as authorized by this permit shall not reduce a flow or level below any minimum flow or level established by the District or the Department of Environmental Protection pursuant to Section 373.042 and 373.0421, F.S. If the permittee's use of water causes or contributes to such a reduction, then the District shall revoke the permit, in whole or in part, unless the permittee implements all provisions applicable to the permittee's use in a District-approved recovery or prevention strategy.
11. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to significant saline water intrusion. If significant saline water intrusion occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the saline water intrusion, unless the saline water intrusion associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
12. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to flood damage. If the permittee's consumptive use causes or contributes to flood damage, the District shall revoke the permit, in whole or in part, to curtail or abate the flood damage, unless the flood damage associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
13. All consumptive uses authorized by this permit shall be implemented as conditioned by this permit, including any documents incorporated by reference in a permit condition. The District may revoke this permit, in whole or in part, or take enforcement action, pursuant to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to address the noncompliance. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
14. This permit does not convey to the permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
15. A permittee may seek modification of any term of an unexpired permit. The permittee is advised that Section 373.239, F.S., and Rule 40C-2.331, F.A.C., are applicable to permit modifications.
16. Following the effective date of the re-evaluated Minimum Flows and Levels adopted pursuant to Rule 62-42.300(1)(e), F.A.C., this permit is subject to modification during the term of the permit, upon reasonable notice by the District to the permittee, to achieve compliance with any approved MFL recovery or prevention strategy for the Lower Santa Fe River, Ichetucknee River, and Associated Priority Springs. Nothing herein shall be construed to alter the District's authority to modify a permit under circumstances not addressed in this condition.
17. All submittals made to demonstrate compliance with this permit must include CUP number 122-7 labeled on the submittal. Submittals should be made on-line at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) whenever possible.
18. This permit will expire on August 2, 2029.
19. Maximum annual groundwater withdrawals from the Upper and Lower Floridan aquifers for public supply use (household, commercial, irrigation, water utility, unaccounted

for) must not exceed 1,489 million gallons (4.08 mgd, average annual).

20. All wells must remain equipped with totalizing flow meters. All flow meters must measure within +/- 5% of actual flow, be verifiable and be installed according to the manufacturer's specifications.
21. Total withdrawal from the following wells must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of this permit using Water Use Pumpage Report Form (EN-50). The meter reading or quantity withdrawn must be reported in gallons. Reporting is required, even if there is no use.

Station ID	Well Name	Source
53	#1 WP - 15	Upper and Lower Floridan aquifer
54	#2 WP - 26	Upper and Lower Floridan aquifer
55	#2 WP - 27	Upper and Lower Floridan aquifer
56	#1 WP - 18	Upper and Lower Floridan aquifer
57	#3 WP - 31	Upper Floridan aquifer
58	#3 WP - 32	Upper Floridan aquifer

The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

22. The permittee must have all flow meters checked for accuracy at least once every 10 years and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. Flow Meter Accuracy Report Form (EN-51) must be submitted to the District within 30 days of the inspection/calibration.
23. The permittee must maintain all flowmeters and alternative methods for measuring flow. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
24. The permittee must implement the Water Conservation Plan submitted to the District on June 20, 2024, in accordance with the schedule contained therein.
25. The permittee must use all available reclaimed water beneficially when it is environmentally, economically, and technically feasible; to the extent it is available, reliable, and of suitable quality.
26. The permittee shall use the lowest quality water source, such as reclaimed water, surface/storm water, or alternative water supply, to supply the needs of the project when deemed feasible pursuant to District rules and applicable state law.
27. The permittee must have in place a process for reporting, recording and documenting unmetered water uses including, but not limited to, main breaks, sewer cleaning, and water quality flushing.
28. The permittee must conduct a detailed water audit and submit it to the District by February 28th 2029. All water uses given in the audit must be for the previous calendar year and documentation provided on how the amounts were metered or determined. If the water audit shows that the system losses and unaccounted for water utility uses

exceed 10%, the permittee must submit an annual corrective action plan and annual water audit to the District until the water audit shows the system losses and unaccounted for water utility uses do not exceed 10%.

29. The permittee must provide an annual water conservation and alternative water source status report to the District, by February 28<sup>th</sup> of each year. At a minimum, the report must include:
  - (a) an update on implementation of water conservation activities and timeline identified in the Water Conservation Plan submitted to the District on June 20, 2024;
  - (b) details on new potential water conserving projects or activities, including type of projects and projected implementation dates; and
  - (c) an update on the progress made toward utilizing or participating in alternative water source projects, including but not limited to the use and/or distribution of reclaimed water to nearby users, surface water or other alternative sources of water, that would result in offsetting groundwater withdrawals.
30. The permittee must submit to the District by August 31, 2026 conceptual reclaimed water system plans, an updated rate structure that includes reclaimed water customers, and any operational plans related to the implementation of delivering reclaimed water to customers.
31. The permittee must submit to the District by August 31, 2028 final engineering design plans for the City's reclaimed water treatment and delivery system and associated permits obtained related to treatment system upgrades and construction of the reclaimed water infrastructure and delivery system.
32. The permittee must have groundwater samples collected and analyzed in May each year from Well #1 WP - 15 (Station ID 53), Well #2 WP - 26 (Station ID 54), Well #2 WP - 27 (Station ID 55), Well #1 WP - 18 (Station ID 56), Well #3 WP - 31 (Station ID 57), and Well #3 WP - 32 (Station ID 58) for the duration of the permit.

### **Sample Collection**

All groundwater samples must be collected in accordance with Florida Department of Environmental Protection (DEP) Standard Operating Procedure FS 2200 for groundwater sampling (DEP-SOP-001/01), DEP Quality Assurance Rule, 62-160, F.A.C.

#### **Field Parameters:**

Water Temperature (°C)  
pH (SU)  
Specific Conductance (umhos/cm or uS/cm)  
Turbidity (NTU)

### **Laboratory Analyses**

Water samples must be analyzed in the laboratory for the following major ion suite:

Calcium (mg/L)  
Magnesium (mg/L)  
Potassium (mg/L)  
Sodium (mg/L)  
Total iron (mg/L)  
Chloride (mg/L)  
Sulfate (mg/L)  
Bicarbonate Alkalinity (as mg/L CaCO<sub>3</sub>)  
Carbonate Alkalinity (as mg/L CaCO<sub>3</sub>)  
Total Dissolved Solids (mg/L)

Specific Conductance (umhos/cm or uS/cm)

### **Quality Assurance**

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (DOH) Environmental Laboratory Certification Program (ELCP) and the National Environmental Laboratory Accreditation Program (NELAP). All laboratory analyses must be performed using methods for which the laboratory has DOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above, and analyzed for the field parameters and the major ion suite listed above.

Laboratory analyses utilizing selective ion electrodes and field screening test kits (e.g., Hach and LaMotte) are not acceptable due to the inadequate sensitivity of these methods.

All major ion analyses must be checked for anion-cation balance (equivalent concentration in meq/L), and must not exceed 5% difference. If the ion balance exceeds 5% difference, the permittee must review the data and include in the report submitted to the District, a discussion of the cause or explanation of the imbalance. The permittee may also be required to have the sample re-analyzed if it is within acceptable holding times or have the well re-sampled. The resample shall be collected according to the procedures described above, and analyzed for the four field parameters and the major ion suite.

### **Report**

A report must be submitted to the District no later than the last day of the month after the month of the sampling (e.g., the report for samples collected in May must be submitted to the District no later than June 30). The report must include the following:

Table summarizing results for field measurements and laboratory chemical analyses  
Groundwater sampling log  
Field instrument calibration verification  
Chain of custody form (if outsourced)  
Laboratory analytical report (if outsourced)

All data must be submitted to the District in a District-approved electronic format readable by the District's computerized database. Form No. 40C-2.900(11) in paper format may be used in lieu of the electronic format for permittees not having access to a computer or the internet.

## Notice Of Rights

1. A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-six (26) days of the District depositing the notice of District decision in the mail (for those persons to whom the District mails actual notice), within twenty-one (21) days of the District emailing the notice of District decision (for those persons to whom the District emails actual notice), or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Chapter 28-106, Florida Administrative Code. The District will not accept a petition sent by facsimile (fax), as explained in paragraph no. 4 below.
2. Please be advised that if you wish to dispute this District decision, mediation may be available and that choosing mediation does not affect your right to an administrative hearing. If you wish to request mediation, you must do so in a timely-filed petition. If all parties, including the District, agree to the details of the mediation procedure, in writing, within 10 days after the time period stated in the announcement for election of an administrative remedy under Sections 120.569 and 120.57, Florida Statutes, the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, shall be tolled to allow mediation of the disputed District decision. The mediation must be concluded within 60 days of the date of the parties' written agreement, or such other timeframe agreed to by the parties in writing. Any mediation agreement must include provisions for selecting a mediator, a statement that each party shall be responsible for paying its pro-rata share of the costs and fees associated with mediation, and the mediating parties' understanding regarding the confidentiality of discussions and documents introduced during mediation. If mediation results in settlement of the administrative dispute, the District will enter a final order consistent with the settlement agreement. If mediation terminates without settlement of the dispute, the District will notify all the parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Florida Statutes, is resumed. Even if a party chooses not to engage in formal mediation, or if formal mediation does not result in a settlement agreement, the District will remain willing to engage in informal settlement discussions.
3. A person whose substantial interests are or may be affected has the right to an informal administrative hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must also comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

## Notice Of Rights

4. A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8:00 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile is prohibited and shall not constitute filing.
5. Failure to file a petition for an administrative hearing within the requisite timeframe shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, Florida Administrative Code).
6. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. A person whose substantial interests are or may be affected by the District's final action has the right to become a party to the proceeding, in accordance with the requirements set forth above.
7. Pursuant to Section 120.68, Florida Statutes, a party to the proceeding before the District who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.
8. A District action is considered rendered, as referred to in paragraph no. 7 above, after it is signed on behalf of the District and filed by the District Clerk.
9. Failure to observe the relevant timeframes for filing a petition for judicial review as described in paragraph no. 7 above will result in waiver of that right to review.

**Notice Of Rights**

**Certificate of Service**

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent to the permittee:

City of Fernandina Beach  
1180 S 5th Street  
Fernandina Beach, FL 32034-4230

This 2nd day of August, 2024.

A handwritten signature in black ink, appearing to read "Rich Burklew", with a long horizontal flourish extending to the right.

Richard Burklew, Bureau Chief

Permit Number: 122-7

## NOTICING INFORMATION

Please be advised that the St. Johns River Water Management District will not publish a notice in the newspaper advising the public that it has issued a permit for this project.

Newspaper publication, using the District's notice form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit for someone to file a petition for an administrative hearing to challenge the issuance of the permit.

To close the point of entry for filing a petition, you may publish (at your own expense) a one-time notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice to close the point of entry, the time to challenge the issuance of your permit will not expire and someone could file a petition even after your project is constructed.

A copy of the notice form and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit of publication. In that event, it is important that you either submit a scanned copy of the affidavit by emailing it to [compliancesupport@sjrwmd.com](mailto:compliancesupport@sjrwmd.com) (preferred method) or send a copy of the original affidavit to:

Office of Records and Regulatory Support  
4049 Reid Street  
Palatka, FL 32177

If you have any questions, please contact the Office of Records and Regulatory Support at (386) 329-4570.

NOTICE OF AGENCY ACTION TAKEN BY THE  
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Notice is given that on \_\_\_\_\_ the District issued Permit No. \_\_\_\_\_ for a Consumptive Use Permit to serve (type of project) \_\_\_\_\_ activities. The total allocation authorized is \_\_\_\_\_ mgd of (groundwater/surface water). The project is located in \_\_\_\_\_ County, Section(s) \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ East. The permit applicant is \_\_\_\_\_.

If you wish to receive a copy of a Technical Staff Report (TSR) that provides the St. Johns River Water Management District (District) staffs' analysis on the above-listed compliance report(s) and associated permit(s), please submit your request to Office Director, Office of Records and Regulatory Support, PO Box 1429, Palatka, FL 32178-1429. You may view the TSR by going to the Permitting section of the District's website at [www.sjrwmd.com/permitting/index.html](http://www.sjrwmd.com/permitting/index.html). To obtain information on how to find and view a TSR, visit [https://permitting.sjrwmd.com/epermitting/html/EP\\_FAQs.html](https://permitting.sjrwmd.com/epermitting/html/EP_FAQs.html), and then follow the directions provided under "How to find a Technical Staff Report (TSR) or other application file documents."

A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the District. Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code (F.A.C.), the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8 a.m. on the next regular District business day. A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes (F.S.), and Chapter 28-106, F.A.C. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, F.A.C.), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). The District will not accept a petition sent by facsimile (fax). Mediation may be available if you meet the conditions stated in the full Notice of Rights (see last paragraph).

The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, F.S., Chapter 28-106, F.A.C., and Rule 40C-1.1007, F.A.C. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. **Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, please visit [http://www.sjrwmd.com/nor\\_dec/](http://www.sjrwmd.com/nor_dec/) to read the complete Notice of Rights to determine any legal rights you may have concerning the District's decision(s) on the Consumptive Use Permit Application(s) described above. You can also request the Notice of Rights by contacting the Office Director, Office of Records and Regulatory Support, P. O. Box 1429, Palatka, FL 32178, phone (386)329-4570.



# St. Johns River Water Management District

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

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • [www.sjrwmd.com](http://www.sjrwmd.com)

July 11, 2024

Avery Roberts  
First Coast Regional Utilities, Inc.  
PO Box 238  
Lake Butler, FL 32054-0238

SUBJECT: First Coast Regional Utilities, Consumptive Use Permit Number 213110-1  
Duval County, Florida

Dear Sir/Madam:

Enclosed is the permit authorized by the District on July 9, 2024. The enclosed permit is a legal document and should be kept with other important records. Please read the permit and conditions carefully because the referenced conditions may require submittal of additional information. Where possible, please submit all information required to comply with permit conditions electronically at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) via the District's e-Permitting portal.

Please be advised that the period of time within which a third party may request an administrative hearing on this permit may not have expired by the date of issuance. A potential petitioner has 26 days from the date on which the actual notice is deposited in the mail, or 21 days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes. Receipt of such a petition by the District may result in this permit becoming null and void.

If you have any questions concerning the permit, please contact Paula Presley in the Jacksonville Service Center at (904) 448-7909 or Timothy Clohisy in the Jacksonville Service Center at (904) 448-7925

Sincerely,

Richard Burklew, Bureau Chief  
Water Use Regulation

**Agent(s):** Michael John Fuller, Environmental Research and Technology LLC

**Land Owner(s):** First Coast Regional Utilities

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#### GOVERNING BOARD

Rob Bradley, CHAIR  
FLEMING ISLAND

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J. Chris Peterson, SECRETARY  
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Cole Oliver  
MERRITT ISLAND

Janet Price  
FERNANDINA BEACH

**ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**  
**Post Office Box 1429**  
**Palatka, Florida 32178-1429**

**PERMIT NO:** 213110-1

**DATE ISSUED:** July 11, 2024

**PROJECT NAME:** First Coast Regional Utilities

**A PERMIT AUTHORIZING:**

The District authorizes, as limited by the attached permit conditions, the use of 47.45 million gallons per year (mgy) (0.13 million gallons per day (mgd), annual average) in 2025, 262.8 mgy (0.72 mgd, annual average) from 2026 through 2030, and 350.4 mgy (0.96 mgd, annual average) from 2031 through 2044, of groundwater from the Upper Floridan aquifer for public supply use (household, commercial, and water utility), 71.54 mgy (0.196 mgd, annual average) of surface water from the stormwater management system for supplementation of the reclaimed water system, and 17.16 mgy (0.047 mgd, annual average) of groundwater from the intermediate aquifer for emergency backup use only through 2044.

**LOCATION:**

Site: First Coast Regional Utilities  
Duval County

SECTION(S):  
7, 18

TOWNSHIP(S):  
3S

RANGE(S):  
23E

**ISSUED TO:**

First Coast Regional Utilities, Inc.  
PO Box 238  
Lake Butler, FL 32054-0238

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal, rule, or ordinance.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

**PERMIT IS CONDITIONED UPON:**

See conditions on attached "Exhibit A", dated July 11, 2024

**AUTHORIZED BY:** St. Johns River Water Management District  
Division of Water Supply Planning and Assessment

By: 

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Michael A. Register  
Executive Director

**"EXHIBIT A"**  
**CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 213110-1**  
**First Coast Regional Utilities**  
**DATE ISSUED July 11, 2024**

1. With advance notice to the permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The permittee shall either accompany District staff onto the property or make provision for access onto the property.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the permittee must adhere to the water shortage restrictions, as specified by the District. The permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order.
3. Prior to the construction, modification or abandonment of a well, the permittee must obtain a water well permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, F.A.C. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification, or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. The permittee's consumptive use of water as authorized by this permit shall not interfere with legal uses of water existing at the time of permit application. If interference occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the interference, unless the interference associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
6. The permittee's consumptive use of water as authorized by this permit shall not have significant adverse hydrologic impacts to off-site land uses existing at the time of permit application. If significant adverse hydrologic impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
7. The permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where permittee's control of the land subject to the permit was demonstrated through a lease, the permittee must either submit documentation showing that it continues to have legal control or transfer control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40C-1.612, F.A.C. Alternatively, the permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve, or other withdrawal facility as provided by Rule 40C-2.401, F.A.C. The permittee shall notify the District in the event that a replacement tag is needed.

9. The permittee's consumptive use of water as authorized by this permit shall not adversely impact wetlands, lakes, rivers, or springs. If adverse impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
10. The permittee's consumptive use of water as authorized by this permit shall not reduce a flow or level below any minimum flow or level established by the District or the Department of Environmental Protection pursuant to Section 373.042 and 373.0421, F.S. If the permittee's use of water causes or contributes to such a reduction, then the District shall revoke the permit, in whole or in part, unless the permittee implements all provisions applicable to the permittee's use in a District-approved recovery or prevention strategy.
11. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to significant saline water intrusion. If significant saline water intrusion occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the saline water intrusion, unless the saline water intrusion associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
12. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to flood damage. If the permittee's consumptive use causes or contributes to flood damage, the District shall revoke the permit, in whole or in part, to curtail or abate the flood damage, unless the flood damage associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
13. All consumptive uses authorized by this permit shall be implemented as conditioned by this permit, including any documents incorporated by reference in a permit condition. The District may revoke this permit, in whole or in part, or take enforcement action, pursuant to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to address the noncompliance. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
14. This permit does not convey to the permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
15. A permittee may seek modification of any term of an unexpired permit. The permittee is advised that Section 373.239, F.S., and Rule 40C-2.331, F.A.C., are applicable to permit modifications.
16. Following the effective date of the re-evaluated Minimum Flows and Levels adopted pursuant to Rule 62-42.300(1)(e), F.A.C., this permit is subject to modification during the term of the permit, upon reasonable notice by the District to the permittee, to achieve compliance with any approved MFL recovery or prevention strategy for the Lower Santa Fe River, Ichetucknee River, and Associated Priority Springs. Nothing herein shall be construed to alter the District's authority to modify a permit under circumstances not addressed in this condition.
17. Upon notification by the District, the permittee shall submit an Impact Offset Plan to address its impacts to MFL waterbodies for which the District has determined are the result, either individually or cumulatively, of the permittee's use of water. Such plan must be submitted within two years of notification by the District. The Impact Offset Plan must include the following elements:
  - A description of each project or strategy the permittee intends to implement to address its impacts to the MFL waterbodies;

- An estimate of the benefits of each project or strategy including all necessary supporting information used to calculate the benefits and a proposed method for ensuring the project achieves the anticipated benefit; and,
  - A schedule for implementation of the projects and strategies including a start and completion date.
18. All submittals made to demonstrate compliance with this permit must include CUP number 213110-1 labeled on the submittal. Submittals should be made on-line at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) whenever possible.
19. This permit will expire on July 9, 2044.
20. Maximum annual groundwater withdrawals from the Upper Floridan aquifer for all public supply use is 350.4 million gallons (0.96 mgd, annual average), which will be implemented according to the following schedule. Maximum annual groundwater withdrawals from the Upper Floridan aquifer must not exceed the following:
- 47.45 million gallons (0.13 mgd, annual average) through December 31, 2025;
  - 262.8 million gallons (0.72 mgd, annual average) from January 1, 2026, through December 31, 2030; and
  - 350.4 million gallons (0.96 mgd, annual average) from January 1, 2031, through July 9, 2044, contingent upon demonstration of items (1) and (2) below:
- 1) Permittee has fully complied with all compliance reporting requirements due up to the date of its submittal, and
  - 2) Permittee has demonstrated that the permitted allocation accurately reflects the actual demand.

The permittee may apply by letter to modify the permit to accelerate this allocation schedule by providing a demonstrated need for a greater amount up to the maximum annual allocation for groundwater withdrawals from the Upper Floridan Aquifer of 350.4 million gallons (0.96 mgd, annual average). If the permittee complies with item 1) but the permittee's annual actual water use submitted by January 31, 2032, is less than 0.96 mgd, then the permitted allocation from the Upper Floridan aquifer for Public Supply Use will be reduced to the highest actual water use from the Upper Floridan aquifer for any previous 12-month period, unless the permittee provides adequate information to the District to demonstrate a higher allocation is warranted. The permittee can seek to modify the permit allocation subsequently by providing a demonstrated demand for a greater amount through a permit modification.

21. The annual surface water withdrawals from the stormwater management system for supplementation of the reclaimed water system is 71.54 million gallons (0.196 mgd, annual average). The surface water allocation may be exceeded if additional surface water is available.
22. Maximum annual groundwater withdrawals from the intermediate aquifer for emergency backup use only must not exceed 17.14 million gallons (0.047 mgd, annual average) through 2044.
23. The primary sources of water for landscape irrigation are reclaimed water and surface water from the stormwater management system. Groundwater from the intermediate aquifer is an emergency backup source, in the event there is not adequate reclaimed water and surface water from the stormwater management system available.

24. All stations outlined in the table below must be equipped with totalizing flowmeters. All flowmeters must measure within +/- 5% of actual flow, be verifiable and be installed according to the manufacturer's specifications.

Station ID	Station Name	Source
555534	Well 1	Upper Floridan Aquifer
555535	Well 2	Upper Floridan Aquifer
560460	SRW-1	Intermediate Aquifer
560461	SRW-2	Intermediate Aquifer
560462	SRW-3	Intermediate Aquifer
560463	SRW-4	Intermediate Aquifer
560499	SRW-5	Intermediate Aquifer
560500	SRW-6	Intermediate Aquifer
560466	SRW-7	Intermediate Aquifer
560467	SRW-8	Intermediate Aquifer
560542	Pump 1	Stormwater system

25. Total withdrawal from all stations outlined in the table below must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of this permit using Water Use Pumpage Report Form (EN-50). The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

Station ID	Station Name	Source
555534	Well 1	Upper Floridan Aquifer
555535	Well 2	Upper Floridan Aquifer
560460	SRW-1	Intermediate Aquifer
560461	SRW-2	Intermediate Aquifer
560462	SRW-3	Intermediate Aquifer
560463	SRW-4	Intermediate Aquifer
560499	SRW-5	Intermediate Aquifer
560500	SRW-6	Intermediate Aquifer
560466	SRW-7	Intermediate Aquifer
560467	SRW-8	Intermediate Aquifer
560542	Pump 1	Stormwater system

26. The permittee must have all flow meters checked for accuracy at least once every 10 years and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. Flow Meter Accuracy Report Form (EN-51) must be submitted to the District within 30 days of the inspection/calibration.
27. The permittee must maintain all flowmeters and alternative methods for measuring flow. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.

28. The permittee must implement the Water Conservation Plan submitted to the District on March 19, 2024, in accordance with the schedule contained therein. The permittee shall submit for District review and approval an updated water conservation plan every 5 years.
29. The permittee must have in place a process for reporting, recording and documenting unmetered water uses including, but not limited to, main breaks, sewer cleaning, and water quality flushing.
30. The permittee must conduct a detailed water audit every five years and submit it to the District by February 28th of 2029, 2034, 2039, and 2044. All water uses given in the audit must be for the previous calendar year and documentation provided on how the amounts were metered or determined. If the water audit shows that the system losses and unaccounted for water utility uses exceed 10%, the permittee must submit an annual corrective action plan and annual water audit to the District until the water audit shows the system losses and unaccounted for water utility uses do not exceed 10%.
31. The permittee must submit to the District, a compliance report pursuant to subsection 373.236(4), F.S., by July 9, 2034. The report shall contain sufficient information to demonstrate that the permittee's use of water will continue, for the remaining duration of the permit, to meet the conditions for permit issuance set forth in the District rules that existed at the time the permit was issued for 20 years by the District. At a minimum, the compliance report must include:
  1. documentation verifying the permittee is implementing water conservation measures identified in the Water Conservation Plan submitted to the District on March 19, 2024;
  2. documentation verifying the permittee's use of water is efficient and continues to be meets the demands of the project;
  3. documentation showing that the lowest quality source of water available is being used to the greatest extent possible for all uses; and
  4. documentation verifying water losses are reduced to the maximum extend feasible for all uses.
32. During the construction of proposed wells Well 1 (Station ID 555534) and Well 2 (Station ID 555535) the permittee must conduct the following tests and submit the testing results to the District within 90 days of completion of the testing:
  - (a) Downhole field water quality testing for chlorides, sulfates and specific conductivity taken during drilling, at the end of each drill rod or 30-foot intervals, upon penetration of the Floridan aquifer, or when the drilling method changes from mud-rotary to the reverse-air/direct-air drilling technique. Any change in these parameters of 20% or greater between consecutive samples will require that the permittee collect a sample for laboratory analysis for those major anions and cations listed in Appendix F of the Applicant's Handbook.

All major ion analyses must be checked for anion-cation balance and must balance within 10%. It is recommended that duplicates be taken to allow for laboratory errors or data loss.
  - (b) A suite of geophysical logs (gamma, electrical resistivity, caliper, flow, and fluid resistivity) and a video log of the well. All logs must be submitted to the District in hard copy and electronically in LAS format.
  - (c) GPS (latitude, longitude) and a site map location of the well.

(d) Water quality testing upon completion of the well for:Field

- Field temperature (°C)
- Field pH
- Field specific conductance (umhos/cm)
- Field turbidity (NTU)

#### Laboratory

Calcium (mg/L), Magnesium (mg/L), Potassium (mg/L), Sodium (mg/L), Total iron (mg/L), Chloride (mg/L), Sulfate (mg/L), Strontium (mg/L), Bicarbonate Alkalinity (as mg/L CaCO<sub>3</sub>), Carbonate Alkalinity (as mg/L CaCO<sub>3</sub>), Total Dissolved Solids (mg/L), Specific Conductance (umhos/cm or uS/cm)

#### Sample Collection

Groundwater samples must be collected in accordance with the Florida Department of Environmental Protection's (FDEP) standard operating procedures (SOP), DEP-SOP-001/01, DEP Quality Assurance Rule, 62-160, F.A.C.

The well must be purged in accordance with the appropriate procedure in DEP-SOP-001/01, as necessary to evacuate water from the well column and induce groundwater representative of the hydrogeologic formation into the well prior to sampling. Purged water must be sampled and analyzed in the field for the following parameters:

- Water Temperature (°C)
- pH (SU)
- Specific Conductance (umhos/cm or uS/cm)
- Turbidity (NTU)

Purging must be documented using the Groundwater Sampling Log form referenced in the FDEP SOP or equivalent.

Water samples must be stored on ice immediately after collection and remain on ice until received by the laboratory. It is recommended that sample duplicates be taken to allow for laboratory errors or data loss, and these samples be stored by the laboratory for a minimum of 60 days to ensure backup sample availability should re-analyses be required.

#### Quality Assurance

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (FDOH) and the National Environmental Laboratory Accreditation Program (NELAP). All laboratory analyses must be by methods for which the laboratory has FDOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above, and analyzed for the field parameters and the major ion suite listed above.

With the exception of pH, laboratory analyses utilizing selective ion electrodes are not acceptable due to the inadequate sensitivity of these methods. Analyses utilizing test kits typically used for field screening (e.g., Hatch and LaMotte) are also not acceptable for the same reason.

All major ion analyses must be checked for anion-cation balance (equivalent concentration in meq/L) and must not exceed 5% difference. If the ion balance exceeds 5% difference, the permittee must review the data and include in the report submitted to the District, a discussion of the cause or explanation of the imbalance. The permittee may also be required to have the sample re-analyzed if it is within acceptable holding times or have the well re-sampled. The resample shall be collected according to the procedures described above and analyzed for the four field parameters and the major ion suite.

### **Reports**

A report must be submitted to the District within 30 days of receipt of data analysis from the laboratory. The report must include the following:

- Table summarizing results for field measurements and laboratory chemical analyses
- Well sampling log
- Field instrument calibration verification
- Chain of custody forms (if outsourced)
- Laboratory analytical report (if outsourced)

All data must be submitted to the District in a District-approved electronic format readable by the District's computerized database.

33. The permittee shall use the lowest quality water source, such as reclaimed water, surface/storm water, or alternative water supply, to supply the needs of the project when deemed feasible pursuant to District rules and applicable state law.
34. All irrigation shall be in conformity with the requirements set forth in subsection 40C-2.042(2), F.A.C.
35. If chemicals are to be injected into the irrigation system, the permittee shall install and maintain a backflow prevention device on all wells or surface pumps that are connected to the irrigation system.

## Notice of Rights

1. A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-six (26) days of the District depositing the notice of District decision in the mail (for those persons to whom the District mails actual notice), within twenty-one (21) days of the District emailing the notice of District decision (for those persons to whom the District emails actual notice), or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Chapter 28-106, Florida Administrative Code. The District will not accept a petition sent by facsimile (fax), as explained in paragraph no. 4 below.
2. Please be advised that if you wish to dispute this District decision, mediation may be available and that choosing mediation does not affect your right to an administrative hearing. If you wish to request mediation, you must do so in a timely-filed petition. If all parties, including the District, agree to the details of the mediation procedure, in writing, within 10 days after the time period stated in the announcement for election of an administrative remedy under Sections 120.569 and 120.57, Florida Statutes, the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, shall be tolled to allow mediation of the disputed District decision. The mediation must be concluded within 60 days of the date of the parties' written agreement, or such other timeframe agreed to by the parties in writing. Any mediation agreement must include provisions for selecting a mediator, a statement that each party shall be responsible for paying its pro-rata share of the costs and fees associated with mediation, and the mediating parties' understanding regarding the confidentiality of discussions and documents introduced during mediation. If mediation results in settlement of the administrative dispute, the District will enter a final order consistent with the settlement agreement. If mediation terminates without settlement of the dispute, the District will notify all the parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Florida Statutes, is resumed. Even if a party chooses not to engage in formal mediation, or if formal mediation does not result in a settlement agreement, the District will remain willing to engage in informal settlement discussions.
3. A person whose substantial interests are or may be affected has the right to an informal administrative hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must also comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

## Notice of Rights

4. A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8:00 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile is prohibited and shall not constitute filing.
5. Failure to file a petition for an administrative hearing within the requisite timeframe shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, Florida Administrative Code).
6. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. A person whose substantial interests are or may be affected by the District's final action has the right to become a party to the proceeding, in accordance with the requirements set forth above.
7. Pursuant to Section 120.68, Florida Statutes, a party to the proceeding before the District who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.
8. A District action is considered rendered, as referred to in paragraph no. 7 above, after it is signed on behalf of the District and filed by the District Clerk.
9. Failure to observe the relevant timeframes for filing a petition for judicial review as described in paragraph no. 7 above will result in waiver of that right to review.

**Notice of Rights**

**Certificate of Service**

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent to the permittee:

Avery Roberts  
First Coast Regional Utilities, Inc.  
info@firstcoastutility.com

This 11th day of July 2024.

Sincerely,

A handwritten signature in black ink, appearing to read "Rich Burklew", with a long horizontal flourish extending to the right.

Richard Burklew, Bureau Chief

Permit Number: 213110-1



# St. Johns River Water Management District

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

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4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • 386-329-4500 • [www.sjrwmd.com](http://www.sjrwmd.com)

May 24, 2024

Michael Dae  
JEA  
225 N. Pearl Street  
Jacksonville, FL 32202-4513

SUBJECT: JEA - Total Consolidation, Consumptive Use Permit Number 88271-27  
Duval, Nassau, St. Johns County, Florida

Dear Sir/Madam:

Enclosed is the permit authorized by the District on May 24, 2024. The enclosed permit is a legal document and should be kept with other important records. Please read the permit and conditions carefully because the referenced conditions may require submittal of additional information. Where possible, please submit all information required to comply with permit conditions electronically at [www.sjrwmd.com/permitting](http://www.sjrwmd.com/permitting) via the District's e-Permitting portal.

Please be advised that the District will not publish a notice in the newspaper advising the public that the permit has been issued. Enclosed is information on publishing notice of the permit. If a newspaper notice is not published to close the point of entry, the time to challenge the issuance of the permit will not expire. A potential petitioner has 26 days from the date on which the actual notice is deposited in the mail, or 21 days from publication of this notice when actual notice is not provided, within which to file a petition for an administrative hearing pursuant to Sections 120.569 and 120.57, *Florida Statutes*. Receipt of such a petition by the District may result in this permit becoming null and void. Also, enclosed is a copy of the Notice of Rights.

If you have any questions concerning the permit, please contact Timothy Clohisy in the Jacksonville Service Center at (904) 448-7925.

Sincerely,

Richard Burklew, Bureau Chief  
Water Use Regulation

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**GOVERNING BOARD**

Rob Bradley, CHAIR  
FLEMING ISLAND

Maryam H. Ghyabi-White, VICE CHAIR  
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J. Chris Peterson, SECRETARY  
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Cole Oliver  
MERRITT ISLAND

Janet Price  
FERNANDINA BEACH

**ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**

**Post Office Box 1429  
Palatka, Florida 32178-1429**

**PERMIT NO:** 88271-27

**DATE ISSUED:** May 24, 2024

**PROJECT NAME:** JEA - Total Consolidation

**A PERMIT AUTHORIZING:**

By letter modification, the District authorizes the use of relocated proposed wells Westlake 4 (Station ID 38525) and Ridenour 8 (Station ID 535342) with updated casing diameters. The District continues to authorize, as limited by the attached permit conditions, the use of 51,924.90 million gallons per year (mgy) (142.26 million gallons per day (mgd) average annual) of groundwater from the Floridan aquifer for public supply use through 2031.

**LOCATION:**

Site: 9A-9B (Greenland)  
Duval, Nassau, St. Johns Counties

Site: Arlington Wellfield  
Duval, Nassau, St. Johns Counties

Site: Beacon Hills  
Duval, Nassau, St. Johns Counties

Site: Brierwood  
Duval, Nassau, St. Johns Counties

Site: Cecil Commerce  
Duval, Nassau, St. Johns Counties

Site: Cobblestone  
Duval, Nassau, St. Johns Counties

Site: Community Hall  
Duval, Nassau, St. Johns Counties

Site: Confederate Pt  
Duval, Nassau, St. Johns Counties

Site: Corona Road  
Duval, Nassau, St. Johns Counties

Site: Deerwood 3  
Duval, Nassau, St. Johns Counties

Site: Fairfax Wellfield  
Duval, Nassau, St. Johns Counties

Site: Hendricks  
Duval, Nassau, St. Johns Counties

Site: Highlands

Duval, Nassau, St. Johns Counties

Site: JEA Cell Tower  
Duval, Nassau, St. Johns Counties

Site: Julington Creek  
Duval, Nassau, St. Johns Counties

Site: Lakeshore  
Duval, Nassau, St. Johns Counties

Site: Lincoln Estates  
Duval, Nassau, St. Johns Counties

Site: Lincoln Estates  
Duval, Nassau, St. Johns Counties

Site: Lofton Oaks  
Duval, Nassau, St. Johns Counties

Site: Lovegrove  
Duval, Nassau, St. Johns Counties

Site: Main St - Fairfax - McDuff  
Duval, Nassau, St. Johns Counties

Site: Main Street  
Duval, Nassau, St. Johns Counties

Site: Marietta  
Duval, Nassau, St. Johns Counties

Site: Mayport  
Duval, Nassau, St. Johns Counties

Site: McDuff  
Duval, Nassau, St. Johns Counties

Site: Monument Rd  
Duval, Nassau, St. Johns Counties

Site: Nassau Regional  
Duval, Nassau, St. Johns Counties

Site: Northwest  
Duval, Nassau, St. Johns Counties

Site: Norwood  
Duval, Nassau, St. Johns Counties

Site: Oakridge  
Duval, Nassau, St. Johns Counties

Site: Otter Run  
Duval, Nassau, St. Johns Counties

Site: PDL A1A North  
Duval, Nassau, St. Johns Counties

Site: PDL A1A South  
Duval, Nassau, St. Johns Counties

Site: Ponce de Leon Wellfield  
Duval, Nassau, St. Johns Counties

Site: Ponte Vedra North  
Duval, Nassau, St. Johns Counties

Site: Ridenour Wellfield  
Duval, Nassau, St. Johns Counties

Site: Rivertown  
Duval, Nassau, St. Johns Counties

Site: Rolling Hills  
Duval, Nassau, St. Johns Counties

Site: Royal Lakes  
Duval, Nassau, St. Johns Counties

Site: SJRPP  
Duval, Nassau, St. Johns Counties

Site: Site 1 - Gold Head Branch  
Duval, Nassau, St. Johns Counties

Site: Site 2 - Gold Head Branch  
Duval, Nassau, St. Johns Counties

Site: Site 3 - Belmore State Forest  
Duval, Nassau, St. Johns Counties

Site: Site 4 - Private Tanner  
Duval, Nassau, St. Johns Counties

Site: Site 5 - Ordway-Swishyer Biological Station  
Duval, Nassau, St. Johns Counties

Site: Site 6 - Ordway-Swisher Biological Station  
Duval, Nassau, St. Johns Counties

Site: Site 7 - Ordway-Swisher Biological Station  
Duval, Nassau, St. Johns Counties

Site: Site 8 - Private Tumlin  
Duval, Nassau, St. Johns Counties

Site: Site 9 - Etonia Creek State Forest  
Duval, Nassau, St. Johns Counties

Site: Southeast Wellfield  
Duval, Nassau, St. Johns Counties

Site: Southwest Wellfield  
Duval, Nassau, St. Johns Counties

Site: St Joe  
Duval, Nassau, St. Johns Counties

Site: St Johns Forest  
Duval, Nassau, St. Johns Counties

Site: St Johns North  
Duval, Nassau, St. Johns Counties

Site: West Nassau Regional  
Duval, Nassau, St. Johns Counties

Site: Westlake Wellfield  
Duval, Nassau, St. Johns Counties

Site: Woodmere  
Duval, Nassau, St. Johns Counties

SECTION(S):	TOWNSHIP(S):	RANGE(S):
23, 24, 25, 26	1N	26E
31	1S	25E
13, 35, 49	1S	26E
12, 33	1S	27E
3, 49, 51	1S	28E
38	1S	29E
24	2N	26E
7, 8, 38, 45	2N	27E
37	2N	28E
33, 34	2S	24E
14, 15	2S	25E
3, 10, 11, 12, 21, 37, 44, 45, 55	2S	26E
52	2S	27E
7, 16, 29, 33, 39, 40	2S	28E
14	3N	28E
14, 15	3S	25E
32	3S	26E

13, 16, 24, 25, 56	3S	27E
7, 18, 42	3S	28E
27, 43	3S	29E
13, 24, 35	4S	26E
18, 19, 54	4S	27E
8, 17	4S	28E
44	5S	26E
5, 39	5S	27E
18	5S	28E
19, 31	5S	30E
6, 20	6S	30E

**ISSUED TO:**

JEA  
225 N. Pearl Street  
Jacksonville, FL 32202-4513

The permittee agrees to hold and save the St. Johns River Water Management District and its successors harmless from any and all damages, claims, or liabilities which may arise from permit issuance. Said application, including all plans and specifications attached thereto, is by reference made a part hereof.

This permit does not convey to the permittee any property rights nor any rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal, rule, or ordinance.

This permit may be revoked, modified or transferred at any time pursuant to the appropriate provisions of Chapter 373, Florida Statutes and 40C-1, Florida Administrative Code.

**PERMIT IS CONDITIONED UPON:**

See conditions on attached "Exhibit A", dated May 24, 2024

**AUTHORIZED BY:** St. Johns River Water Management District  
Division of Water Supply Planning and Assessment

By: 

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Paula Presley  
Supervising Hydrologist

**"EXHIBIT A"**  
**CONDITIONS FOR ISSUANCE OF PERMIT NUMBER 88271-27**  
**JEA - Total Consolidation**  
**DATE ISSUED May 24, 2024**

1. With advance notice to the permittee, District staff with proper identification shall have permission to enter, inspect, observe, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications. The permittee shall either accompany District staff onto the property or make provision for access onto the property.
2. Nothing in this permit should be construed to limit the authority of the St. Johns River Water Management District to declare a water shortage and issue orders pursuant to Chapter 373, F.S. In the event of a declared water shortage, the permittee must adhere to the water shortage restrictions, as specified by the District. The permittee is advised that during a water shortage, reports shall be submitted as required by District rule or order.
3. Prior to the construction, modification or abandonment of a well, the permittee must obtain a water well permit from the St. Johns River Water Management District or the appropriate local government pursuant to Chapter 40C-3, F.A.C. Construction, modification, or abandonment of a well will require modification of the consumptive use permit when such construction, modification, or abandonment is other than that specified and described on the consumptive use permit application form.
4. Leaking or inoperative well casings, valves, or controls must be repaired or replaced as required to eliminate the leak or make the system fully operational.
5. The permittee's consumptive use of water as authorized by this permit shall not interfere with legal uses of water existing at the time of permit application. If interference occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the interference, unless the interference associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
6. The permittee's consumptive use of water as authorized by this permit shall not have significant adverse hydrologic impacts to off-site land uses existing at the time of permit application. If significant adverse hydrologic impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
7. The permittee shall notify the District in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the Project and/or related facilities from which the permitted consumptive use is made. Where permittee's control of the land subject to the permit was demonstrated through a lease, the permittee must either submit documentation showing that it continues to have legal control or transfer control of the permitted system/project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40C-1.612, F.A.C. Alternatively, the permittee may surrender the consumptive use permit to the District, thereby relinquishing the right to conduct any activities under the permit.
8. A District-issued identification tag shall be prominently displayed at each withdrawal site by permanently affixing such tag to the pump, headgate, valve, or other withdrawal facility as provided by Rule 40C-2.401, F.A.C. The permittee shall notify the District in the event that a replacement tag is needed.

9. The permittee's consumptive use of water as authorized by this permit shall not adversely impact wetlands, lakes, rivers, or springs. If adverse impacts occur, the District shall revoke the permit, in whole or in part, to curtail or abate the adverse impacts, unless the impacts associated with the permittee's consumptive use of water are mitigated by the permittee pursuant to a District-approved plan.
10. The permittee's consumptive use of water as authorized by this permit shall not reduce a flow or level below any minimum flow or level established by the District or the Department of Environmental Protection pursuant to Section 373.042 and 373.0421, F.S. If the permittee's use of water causes or contributes to such a reduction, then the District shall revoke the permit, in whole or in part, unless the permittee implements all provisions applicable to the permittee's use in a District-approved recovery or prevention strategy.
11. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to significant saline water intrusion. If significant saline water intrusion occurs, the District shall revoke the permit, in whole or in part, to curtail or abate the saline water intrusion, unless the saline water intrusion associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
12. The permittee's consumptive use of water as authorized by the permit shall not cause or contribute to flood damage. If the permittee's consumptive use causes or contributes to flood damage, the District shall revoke the permit, in whole or in part, to curtail or abate the flood damage, unless the flood damage associated with the permittee's consumptive use of water is mitigated by the permittee pursuant to a District-approved plan.
13. All consumptive uses authorized by this permit shall be implemented as conditioned by this permit, including any documents incorporated by reference in a permit condition. The District may revoke this permit, in whole or in part, or take enforcement action, pursuant to Section 373.136 or 373.243, F.S., unless a permit modification has been obtained to address the noncompliance. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.
14. This permit does not convey to the permittee any property rights or privileges other than those specified herein, nor relieve the permittee from complying with any applicable local government, state, or federal law, rule, or ordinance.
15. A permittee may seek modification of any term of an unexpired permit. The permittee is advised that Section 373.239, F.S., and Rule 40C-2.331, F.A.C., are applicable to permit modifications.
16. This permit will expire May 10, 2031.
17. All submittals made to demonstrate compliance with this permit must include the CUP number plainly 88271-27 labeled on the submittal. Submittals should be made on-line at [www.sjrwmd.com/permit](http://www.sjrwmd.com/permit) whenever possible.
18. If the permittee has complied with all the requirements of the conditions set forth in this permit, the maximum annual groundwater withdrawals from the Floridan Aquifer system must not exceed:

44,581.10 million gallons (122.14 million gallons per day average) in 2011,  
45,208.90 million gallons (123.86 million gallons per day average) in 2012,  
45,847.65 million gallons (125.61 million gallons per day average) in 2013,  
46,475.45 million gallons (127.33 million gallons per day average) in 2014,  
47,114.20 million gallons (129.08 million gallons per day average) in 2015,  
47,917.20 million gallons (131.28 million gallons per day average) in 2016,

48,731.15 million gallons (133.51 million gallons per day average) in 2017,  
49,541.45 million gallons (135.73 million gallons per day average) in 2018,  
50,351.75 million gallons (137.95 million gallons per day average) in 2019,  
51,162.05 million gallons (140.17 million gallons per day average) in 2020,  
51,924.90 million gallons (142.26 million gallons per day average) in 2021 through 2031,

unless and until the permittee

(1) has fully complied with all requirements for reports due before 2021 or the end of that year, including but not limited to those in conditions 27, 30, 41, 45 and 46. below, and  
(2) is fully complying with conditions 40, 44, and 48 below.

Once the permittee documents its full compliance with both paragraphs (1) and (2) above, the allocations will follow the schedule below for the remaining duration of this permit, the first increase occurring in the year that the permittee demonstrates such compliance, with a pro rata reduction for the portion of the year during which the permittee had not yet made the demonstration. Any such scheduled increase would remain subject to any reduction required to ensure continued compliance with paragraph (2) above and to avoid or mitigate unanticipated environmental harm or violation of any other permit condition.

51,924.90 million gallons (142.26 million gallons per day average) in 2022,  
51,924.90 million gallons (142.26 million gallons per day average) in 2023,  
52,389.76 million gallons (143.53 million gallons per day average) in 2024,  
53,127.46 million gallons (145.55 million gallons per day average) in 2025,  
53,816.32 million gallons (147.44 million gallons per day average) in 2026,  
54,460.35 million gallons (149.21 million gallons per day average) in 2027,  
55,106.21 million gallons (150.98 million gallons per day average) in 2028,  
55,755.72 million gallons (152.76 million gallons per day average) in 2029,  
56,393.52 million gallons (154.50 million gallons per day average) in 2030 and  
56,575.00 million gallons (155.00 million gallons per day average) in 2031.

However, the permittee's annual allocations for 2022-2031 shall increase as set forth below if the permittee achieves more reuse than specified in condition 44, by making reclaimed water available through a point of connection to permitted Floridan Aquifer users (Users) and contracting with them to supply it to replace groundwater use by such Users, as follows. Each contract with a User must provide the following:

- (a) The permittee's making available a specified amount of reclaimed water through a point of connection with the User's water system for the duration of this permit; and
- (b) The User's commitment to accept and use that specified amount of reclaimed water for that same duration.

The permittee must submit a copy of the contract to the District within 15 days of its complete execution, so that the District can proceed expeditiously to modify the User's permit to require use of the amount of reclaimed water specified in the contract. Once the nine-month period for modifying the User's permit has expired, the permittee's allocations for the remaining duration of the permit shall increase as soon as the permittee begins providing reclaimed water through a point of connection to the User's system. If those conditions are met, the permittee's allocations for the remaining duration of the permit shall increase by 50% of the amount of the reclaimed water that the permittee makes available and the User commits to use to replace groundwater use by the User, to the extent that such additional reuse increases the permittee's total provision of reuse beyond the amounts specified in the following schedule. However, if the District's modification of the User's permit to require use of reclaimed water is unsuccessful after a formal administrative hearing initiated by the User and entry of a final administrative order rejecting the permit modification, the increased allocation shall not become effective, or if

already in effect, shall lapse.

31.55 mgd by the end of 2020,  
37.36 mgd by the end of 2025, and  
43.76 mgd by the end of 2030.

Increases based on such additional reuse (beyond 31.55 by the end of 2020) that take effect at the beginning of 2021 or afterwards shall remain in effect until the end of 2025. Increases taking effect at the beginning of 2026 or afterwards (based on additional reuse beyond 37.36 mgd by the end of 2025) shall remain in effect until the end of 2030. Any increase taking effect at the beginning of 2031 shall result from reuse achieved beyond the required amount of reuse (43.76 mgd) by the end of 2030. Any such increase taking effect at any time remains in effect only if the permittee continues to provide and the User continues to use the amount of reclaimed water specified in the contract, unless the User ceases operation and terminates its water use. In that case, the increased allocation shall remain in effect until 9 months after a new User receives a permit to withdraw water from the Floridan Aquifer at the same site, or for the duration of this permit, whichever is sooner. Permittee's increased allocation shall decrease in proportion to the difference between the groundwater allocation previously permitted to the prior User and the groundwater allocation permitted to the new User. If within those 9 months the permittee contracts with the new User for it to use reclaimed water to replace groundwater use, the permittee's increased allocation shall remain in effect for the duration of this permit.

The permittee must provide the District written notice within 15 days of any reduction of the amount of reclaimed water provided and used under the contract, including a statement of whether the reduction was due to a breach or a renegotiation of the contract or any other reason. The increased allocation shall remain in effect for 9 months after the reduction occurred but then shall decrease in proportion to the amount of reclaimed water no longer provided or used, unless the permittee has reinstated the pre-reduction amount of reclaimed water provided and used before that deadline. In no event, however, shall the permittee's total groundwater allocations (including any increases based on such additional reuse) exceed the following schedule:

52,720.60 million gallons (144.44 million gallons per day average) in 2022,  
53,523.60 million gallons (146.64 million gallons per day average) in 2023,  
54,326.60 million gallons (148.84 million gallons per day average) in 2024,  
55,118.65 million gallons (151.01 million gallons per day average) in 2025,  
55,885.95 million gallons (153.03 million gallons per day average) in 2026,  
56,556.75 million gallons (154.95 million gallons per day average) in 2027,  
57,250.25 million gallons (156.85 million gallons per day average) in 2028,  
57,954.70 million gallons (158.78 million gallons per day average) in 2029,  
58,655.50 million gallons (160.70 million gallons per day average) in 2030, and  
59,359.95 million gallons (162.63 million gallons per day average) in 2031.

19. So long as the permittee's overall annual withdrawals in any year do not exceed 56,575.00 million gallons (155 mgd average), the maximum annual groundwater withdrawals must not exceed the allocations specified for each wellfield by year in Figure 1a, subject to the following provision for operational flexibility. In any such year, total withdrawals in any wellfield on the North Grid may exceed the individual wellfield allocation by up to 28%, and those in any wellfield on the South Grid, Lofton Oaks Grid, Ponte Vedra Grid, Ponce de Leon Grid and Mayport Grid by no more than 20%. If the total overall withdrawals exceed 56,575.00 million gallons (155 mgd average) in any year, however, the maximum annual groundwater withdrawals in any grid must not exceed the allocations specified for each wellfield in Figure 1b, and the total withdrawals in any wellfield on the North Grid must not exceed the individual wellfield allocation by more than 20%, the same as for all the other grids.

Regardless of which provision for flexibility applies, the overall withdrawals authorized by this permit must not exceed the total allocation for the year, as limited by condition 18 above.

20. All existing and proposed wells must be equipped with totalizing flow meters. All flow meters must maintain 95% accuracy, be verifiable and be installed according to the manufacturer's specifications.
21. Total withdrawals from existing and proposed District Station IDs, as specified in Figure 2, must be recorded continuously, totaled monthly, and reported to the District at least every six months for the duration of this permit using District-approved electronic and digital compliance submittal templates. The reporting dates each year will be as follows:

Reporting Period	Report Due Date
January - June	July 31
July - December	January 31

22. The permittee must maintain all flowmeters. In case of failure or breakdown of any meter, the District must be notified in writing within 5 days of its discovery. A defective meter must be repaired or replaced within 30 days of its discovery.
23. The permittee must have all flow meters checked for accuracy at least once every 10 years within 30 days of the anniversary date of permit issuance, and recalibrated if the difference between the actual flow and the meter reading is greater than 5%. Flow Meter Accuracy Report Form (EN-51) must be submitted to the District within 30 days of the inspection/calibration.
24. Well modifications, construction and abandonments shall conform to District requirements in chapter 40C-3, F.A.C.
25. The following inactive (abandoned wells) must be plugged in accordance with rule chapter 40C-3.531 no later than December 31, 2015:

Wellfield or WTP	JEA Well Name	District Station ID
Blount Island	B105	6248
Blanding-Ortega	1001	TBD
Blanding	1002	TBD
Whiteshell Bay	WS01	6317
Whiteshell Bay	WS02	6316
Cecil Field (Yellow Water)	YW1	TBD
Forest Brook	FB01	5955
Hyde Grove	HG01	5944
Oak Hill	JH03	5943
Green Forest	JH01	5941
Magnolia Gardens	MG01	5953
Venetia Terrace	VT01	5956
Arbor Point	N101	6050
Marshview	MV70	6395
Alderman Park	AG71	5916
Alderman Park	AG72	5917
*Columbine	AG73	5918
*Lake Lucina	AG74	5920
Queen Akers	QA01	23161

San Jose	SJ70	5936
San Jose	SJ71	5937
St. Joe	St. Joe	22015
St. Johns Forest	SJF 1S	15111
St. Johns Forest	SJF 2S	15113
*Elvia	Elvia	5919
University Park	UP	TBD

\*If a well is converted to an Upper Floridan aquifer monitor well, as part of the sub-regional monitor well network, it does not need to be plugged.

26. At least 30 days before construction of any of the proposed production and monitor wells, the permittee must submit to the District for review and approval a well construction and aquifer testing program that includes the following:

- (a) Detailed site map (including road features) of proposed production and monitor well(s) locations,
- (b) Latitude/Longitude of proposed well(s) locations,
- (c) Detailed well specifications and drawings,
- (d) Geophysical Logging Program to be conducted upon completion of each well and include the following: Gamma, Caliper, Electric (sp and electrical resistivity), Fluid Resistivity, Temperature, Flow and Video,
- (e) Downhole water quality testing program to include field-testing at 20-foot intervals upon penetration of the top of the Upper Floridan aquifer for specific conductivity, chlorides, temperature and pH (Production and Floridan monitor wells only), and
- (f) Proposed aquifer testing program for wells in any new wellfield, to be conducted in accordance with the Aquifer Testing Guidelines outlined in the Consumptive Use Permit, Applicant's Handbook (December 27, 2010) (Production wells only), unless a District-approved aquifer testing program was already performed for a well in the same wellfield drilled to the same water-bearing zone.

27. By May 10, 2021 (10 years from the date of permit issuance), the permittee shall submit to the District a compliance report under section 373.236(4) of the Florida Statutes. The report shall contain sufficient information to maintain reasonable assurance for the remaining duration of the permit that the permittee's use of water will continue to meet the conditions for permit issuance set forth in the rules existing when the District issued the permit. The compliance report must include the following:

- (a) Updated population and groundwater demand projections, considering the actual growth in customers at that point in the permit duration, the latest projections for growth in the remaining 10 years, existing and projected reclaimed water use, and progress in water conservation,
- (b) A copy of the reuse progress report the permittee is required to submit in 2021 pursuant to Condition 45,
- (c) A copy of the water conservation plan progress report the permittee is required to submit in 2021 pursuant to Condition 30,
- (d) A copy of the updated evaluation of environmental impact of the permittee's groundwater use that the permittee is required to submit in 2021 pursuant to Condition 41,
- (e) A copy of the evaluation of the effectiveness of measures taken to mitigate saline water intrusion that the permittee is required to submit in 2021 pursuant to Condition 46,
- (f) Any proposed revisions in groundwater allocations needed to meet the permittee's demonstrated demand in its service area for the remainder of the permit duration,
- (g) A progress report on implementation of any District-approved MFL prevention/recovery strategy, and

(h) A progress report on implementing the schedule in Condition 48 for selecting and developing one or more alternative water supplies (AWS), including any update needed for the AWS facilities master plan.

28. Following the effective date of the re-evaluated Minimum Flows and Levels adopted pursuant to Rule 62-42.300(1)(e), F.A.C., this permit is subject to modification during the term of the permit, upon reasonable notice by the District to the permittee, to achieve compliance with any approved MFL recovery or prevention strategy for the Lower Santa Fe River, Ichetucknee River, and Associated Priority Springs. Nothing herein shall be construed to alter the District's authority to modify a permit under circumstances not addressed in this condition.

29. The permittee must complete and submit an annual water audit for each of the following gridded systems: North Grid and South Grid combined, Ponte Vedra Grid, Ponce de Leon Grid, Mayport Grid and Lofton Oaks Grid using the District's current water audit form set forth in the Applicant's Handbook. The audit period must include at least 12 consecutive months within the three year period preceding submission and must be submitted in a digital EXCEL format to the District by February 28, 2012.

If unaccounted-for water losses exceed 10%, the permittee must perform the following:

- a) A leak detection/leak identification program initiated within 90 days of the 10% exceedance, to determine the source of the water losses,
- b) A detailed schedule for leak repair submitted to the District within 90 days of audit completion,
- c) A meter survey identifying unaccounted-for use due to meter inaccuracy (with a proposal to replace/repair inaccurate meters submitted to the District within 90 days of audit completion), and
- d) An evaluation to identify unmonitored water use and implement a program to get such uses metered within 90 days of audit completion.

Annual audits and leak detection and repair programs shall continue annually until the permittee demonstrates that its unaccounted-for water loss no longer exceeds 10%.

30. The permittee must submit a Water Conservation Plan Progress Report on February 28 of years 2016, 2021, and 2026. The report shall include the following:

- (a) A detailed discussion of the conservation education components:
  - i. Quantification of the reach and frequency of media impressions,
  - ii. Strategy for development and distribution of video products,
  - iii. Progress report on status of Landscape demonstration projects,
  - iv. Quantification of exhibits and tradeshow conducted,
  - v. Quantification of speaking engagements to schools and community organizations,and
  - vi. Quantification of water conservation articles and/or reports to local new media.
- (b) An analysis of account-level water use data for single-family, multi-family, and commercial/industrial water use categories in each grid area, documenting the per unit average daily water use of each customer category in each grid area, and the progress in improving water use efficiency.
- (c) An analysis of the feasibility of additional water conservation measures, based on the results of the billing analysis.
- (d) Plans to implement feasible measures.

31. The permittee must have groundwater samples from all permitted JEA Floridan aquifer production and monitor wells collected and analyzed quarterly for the permit duration according to the following schedule: Quarter 1 (January - March), Quarter 2 (April - June), Quarter 3 (July - September) and Quarter 4 (October - December). The permitted JEA Floridan aquifer production and monitor wells along with the required sampling parameters are included in the quarterly monitoring program listed in Figure 3.

Sample Collection:

All groundwater samples must be collected in accordance with the Florida Department of Environmental Protection's (FDEP) standard operating procedures (SOP), DEP-SOP-001/01, DEP Quality Assurance Rule, 62-160, F.A.C.

Wells must be purged in accordance with the appropriate procedure in DEP-SOP-001/01, as necessary to evacuate water from the well column and induce groundwater representative of the hydrogeologic formation into the well prior to sampling. Purged water must be sampled and analyzed in the field for the following parameters:

Water Temperature (°C)  
pH (SU)  
Specific Conductance (umhos/cm or uS/cm)  
Turbidity (NTU)

Purging must be documented using the Groundwater Sampling Log form referenced in the FDEP SOP or equivalent.

Water samples must be stored on ice immediately after collection, and remain on ice until received by the laboratory. It is recommended that sample duplicates be taken to allow for laboratory errors or data loss, and these samples be stored by the laboratory for a minimum of 60 days to ensure backup sample availability should re-analyses be required.

Laboratory Analyses:

Water samples must be analyzed in the laboratory for limited parameters or major ions as required in Figure 3.

*Limited Parameter Chemical Analyses*

Limited parameter laboratory chemical analyses shall include the following:

Chloride (mg/L)  
Sulfate (mg/L)  
Total Dissolved Solids (mg/L)  
Specific Conductance (umhos/cm or uS/cm)

If the District determines that results for limited parameter analyses indicate that changes in groundwater geochemistry at any of the permitted production wells may be trending towards a chloride concentration or geochemical type of groundwater significantly different from background levels and indicating potential saline water intrusion, the District will notify the permittee within 90 days that major ion analyses will be required for the identified production well(s) for the permit duration.

*Major Ion Chemical Analyses*

Major ion laboratory chemical analyses shall include the following:

Calcium (mg/L)  
Magnesium (mg/L)  
Potassium (mg/L)  
Sodium (mg/L)  
Total iron (mg/L)  
Chloride (mg/L)  
Sulfate (mg/L)  
Bicarbonate Alkalinity (as mg/L CaCO<sub>3</sub>)  
Carbonate Alkalinity (as mg/L CaCO<sub>3</sub>)  
Total Dissolved Solids (mg/L)  
Specific Conductance (umhos/cm or uS/cm)

Quality Assurance:

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (FDOH) and the National Environmental Laboratory Accreditation Conference (NELAC). All laboratory analyses must be by methods for which the laboratory has FDOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above, and analyzed for the field parameters and the appropriate laboratory chemical analyses listed above.

With the exception of pH, laboratory analyses utilizing selective ion electrodes are not acceptable due to the inadequate sensitivity of these methods. Analyses utilizing test kits typically used for field screening (e.g., Hatch and LaMotte) are also not acceptable for the same reason.

All major ion analyses must be checked for anion-cation balance (equivalent concentration in meq/L), and must not exceed 5% difference. If the ion balance exceeds 5% difference, the permittee must review the data and include in the report submitted to the District, a discussion of the cause or explanation of the imbalance. The permittee may also be required to have the sample re-analyzed if it is within acceptable holding times or have the well re-sampled. The resample shall be collected according to the procedures described above, and analyzed for the four field parameters and the major ion suite.

Reports:

A report must be submitted to the District no later than the last day of the month following the last month of the quarter (for example, the report for Quarter 1 must be submitted to the District no later than April 30). The report must include the following:

- a) Table summarizing results for field measurements and laboratory chemical analyses
- b) Well sampling log
- c) Field instrument calibration verification
- d) Chain of custody forms
- e) Laboratory analytical report (if outsourced)

All data must be submitted to the District in a District-approved electronic format.

32. The permittee must construct or modify existing wells as specified in the JEA Groundwater Monitoring Network in accordance with the timeframes and approximate locations specified in Figure 6.

33. The permittee must monitor the 10 newly constructed shallow monitoring wells at the general locations described below and shown on Figure 4 in accordance with the JEA Wetland Monitoring Wells, Installation and Ecological Monitoring Plan dated June 2012 and submitted to the District on July 27, 2012. The approved monitoring well site locations are:

Site No.	Location	Latitude	Longitude
1	Gold Head Branch State Park	29° 49' 38.425"N	81° 56' 44.750"W
2	Gold Head Branch State Park	29° 49' 25.740"N	81° 56' 39.528"W
3	Belmore State Forest	29° 48' 41.658"N	81° 50' 57.579"W
4	Private – Tanner	29° 42' 06.232"N	81° 52' 24.174"W
5	Orway-Swisher Biological Station (state)	29° 43' 27.272"N	81° 58' 38.475"W
6	Orway-Swisher Biological Station (state)	29° 40' 51.628"N	82° 01' 13.475"W
7	Orway-Swisher Biological Station (state)	29° 42' 07.951"N	82° 00' 26.247"W
8A	Private - Tumlin	29° 42' 02.169"N	82° 03' 07.795"W
8B	Private - Tumlin	29° 45' 02.147"N	82° 03' 07.710"W
9	Etoniah Creek State Forest	29° 44' 20.855"N	81° 48' 03.568"W

34. At each of the 9 wetland monitoring sites specified in Figure 4, an elevation profile along a transect at least 150 feet in length must be surveyed such that 50 feet of the adjacent upland is included. If the adjacent upland consists of placed fill, then the transect may be limited to 120 feet in length, such that 20-feet of the adjacent upland is included. The location of the transect must be reviewed and approved by the District prior to survey.

Soil elevations must be recorded to an accuracy of +/- 0.1 foot at 5 foot intervals and wherever there is a change in plant community. Other environmental features such as current water level, cypress buttress inflection points, lower extent of lichen lines or upper extent of moss collars, watermarks, and the lower edge of the saw palmetto (*Serenoa repens*) fringe must be surveyed, if present. A diagram of the elevations, plant communities, and hydric soils located along the transect must be made.

(a) Plant communities must be described, including a listing of all vascular plant species, by plant community, present within 10 feet of one side of the transect line, their relative abundance, and the diameter at breast height (d.b.h.) of any woody plants greater than 1" d.b.h.

(b) A description of soil color, texture, and hydric soil indicators must be made in the top 24 inches of soil at 25 foot intervals along the transect described above for a total of 7 stations. If the soil survey depicts the soils as open water, then the soil description will occur out to a water depth of 3 feet, and depth to sediment surface, and depth of organic substrate will be recorded for the remaining intervals. The baseline data collection described in this section is a one-time event. All of these data, maps, diagrams, etc. must be submitted to the District as a report within 13 months of permit issuance.

35. A permanent photo station must be installed at each of the 9 wetland/lake monitoring wells specified in Figure 4 and in condition 33 above and panoramic photographs must be taken toward the cardinal directions in September, starting in 2012 and annually thereafter. Specific locations of the photo stations must be approved by District staff.
36. Wetland Monitoring Data must be submitted electronically every six months in a District-approved computer accessible format. Specifically, data collected January through June must be submitted on or before July 31<sup>st</sup> of each year and data collected July through December must be submitted on or before January 31<sup>st</sup> of each year. Data submittal will start on January 31<sup>st</sup>, 2012. Water level data (measured weekly without data loggers or daily at noon with data loggers) must be recorded by the permittee for each wetland/lake monitoring site and must be reported as elevation relative to the North American Vertical Datum (NAVD) of 1988.
37. The permittee must calibrate and maintain in working order all data loggers and probes used for measuring water levels in monitoring wells for permit duration. A defective data logger and/or probe must be reported to the District and repaired or replaced and recalibrated within 45 days of its discovery.
38. Wetland Monitoring Summary Report: By Feb 28<sup>th</sup> (starting 2013) the permittee must submit an annual report summarizing and comparing all of the wetland monitoring data recorded for the last calendar year and previous years. This report will include the panoramic photographs and graphs of the water levels at each wetland through time. The elevation of the upland/wetland interface must be indicated on the graphs.
39. If the permittee is unable to obtain or maintain legal access to any of the 9 wetland monitoring sites, the permittee must notify the District in writing within 15 days of concluding that access to any specific site is not possible. In that case, the permittee must identify alternative sites where legal access can be obtained and submit within 90 days a written request to the District requesting to modify the monitoring network. Within 6 months of District approval of the monitoring network modification, the permittee must implement the approved change(s) except that if the permittee is unable to obtain or maintain legal access to any alternate monitoring site approved by the District, it shall follow the procedures set forth in this condition for modifying the monitoring network.

40. Permittee's total required offset (or "lift") to address its proportionate share of impact to Lakes Brooklyn and Geneva minimum flows and levels (MFL) as established by rule 40C-8.035(5), F.A.C., effective September 28, 2021 is 0.68 feet which is comprised of 0.32 feet resulting from Permittee's average water use for the years 2014–2018 and 0.36 feet for Permittee's water use over and above the years 2014-2018. The determination of the amount of lift needed to offset the impact on Lakes Brooklyn and Geneva MFLs from Permittee's water use is based upon an allocation of 142.26 MGD specified in condition 18 of CUP 88271, the allocation of 51.84 million gallons per year specified in CUP 147105, and the North Florida Southeast Georgia Regional Groundwater Flow Model version 1.1 (NFSEG) in combination with the KHTM local scale model version 2.0 simulation run by the District on June 17, 2021, and provided to Permittee on June 22, 2021. The files associated with this model simulation have been filed with District Item no. 1426565 and have been made a part of the application file for permit no. 88271-21.

Permittee has elected to participate financially in the construction and operation of the Black Creek Water Resource Development Project as a means of addressing its proportional share of the required recovery of the MFLs for Lakes Brooklyn and Geneva and to ensure its future water use as specified above complies with the Lakes Brooklyn and Geneva MFL criteria by not causing a violation of the Lakes Brooklyn and Geneva MFLs. Permittee has entered into "Cost Participation Agreement No. 3 for Construction and Operation and Maintenance of the Black Creek Water Resource Development" with the District dated July 29, 2021, to purchase 0.68 feet of lift associated with the Black Creek Water Resource Development Project. Permittee is, therefore, in compliance with the Recovery Strategy for Implementation of the Minimum Levels for Lakes Brooklyn and Geneva, condition 10 of this permit and the requirements of Rule 40-2.301(2)(h), F.A.C., and sections 2.3(h) and 3.8 of the Applicant Handbook: Consumptive Uses of Water (August 29, 2018), relative to the Lakes Brooklyn and Geneva MFLs up to the 0.68 of lift purchased.

If Permittee elects to modify its wellfield operation plan in a manner that deviates from the aforementioned model simulation, Permittee and the District will use the North Florida Southeast Georgia Regional Groundwater Flow Model version 1.1 (NFSEG) in combination with the KHTM local scale model version 2.0 to determine if any additional deficit in the Lakes Brooklyn and Geneva MFLs will be caused by Permittee's revised wellfield operation plan. Upon mutual agreement of the District and Permittee, alternative groundwater flow models or future updates to the NFSEG Model version 1.1 or KHTM local scale model version 2.0 may be utilized for the determination of deficits and lift.

The Permittee is on notice that it must receive all other required authorizations, including permit modifications, to authorize the wellfield withdrawals identified in the aforementioned model simulation.

41. The permittee's consumptive use shall not adversely impact wetlands, lakes, stream flows, and spring flows, or cause or contribute to a violation of minimum flows and levels adopted in rule chapter 40C-8, except as authorized by a District-approved minimum flow or level (MFL) recovery strategy. On February 28 of 2021, the permittee must submit an updated evaluation of the actual environmental impact of the permittee's groundwater use up to the time of the evaluation, and the projected impact of the groundwater allocations for the remaining duration of the permit, considering monitoring data and the predictions from the best available groundwater flow models existing at the time of the updated evaluation. If unanticipated significant adverse impacts are observed or projected to occur based on the updated evaluation, the District shall revoke the permit in whole or in part to curtail or abate the adverse impacts, unless the impacts are mitigated by the permittee under a District-approved plan.

42. The permittee must measure groundwater levels in all JEA monitor wells as specified in Figure 3 daily at noon using dedicated data loggers for the duration of the permit. Groundwater levels must be measured to an accuracy of 0.01-foot, corrected to compensate for changes in barometric pressure (if required) and converted to elevations relative to the North American Vertical Datum (NAVD) of 1988. Groundwater level elevations must be submitted in a District-approved digital format readable by the District's computerized database no later than the last day of the month following the month that the measurements were obtained (for example, the results for the groundwater level elevations measured in February must be submitted to the District no later than March 31).

43. The permittee shall implement the reuse of reclaimed water to the maximum extent technologically, economically, and environmentally feasible. The permittee shall maximize the use of all available reclaimed water to meet its irrigation, commercial, and industrial needs in place of higher quality water sources (e.g., groundwater sources), and for aquifer recharge and agricultural use.

44. Except to the extent the permittee demonstrates that some portion of the amount of reuse required below is not economically, environmentally, or technologically feasible, the permittee shall provide reclaimed water for reuse within the permittee's service area, in no less than the amounts specified for each of the dates in the following schedule:

31.55 mgd by 2020,  
37.36 mgd by 2025, and  
43.76 mgd by 2030.

45. The permittee must submit to the District the FDEP Annual Reuse Report each year by February 28 and must submit each of the following items for Governing Board review, detailed and updated, on February 28 of years 2016, 2021, and 2026:

- (a) The permittee's customer account-level data for reclaimed water reuse,
- (b) GIS coverages for system expansion and all new and existing customers,
- (c) Customer potable water offsets achieved by the permittee (in million gallons per day),
- (d) A progress report summarizing the overall total of reclaimed water flows by grid for the preceding year to verify that the permittee is complying with the reclaimed water reuse conditions of this permit,
- (e) The status of any inter-local reclaimed water agreements,
- (f) The status of capital improvements necessary to fulfill the conditions of this permit, and
- (g) An updated feasibility analysis showing that for the remaining duration of the permit the permittee will use or supply all readily available reclaimed water for reuse and aquifer recharge or enhancement, except to the extent that the analysis demonstrates that additional reuse is not economically, environmentally, or technologically feasible.

46. On February 28 of 2021, the permittee must submit an evaluation of the effectiveness of measures taken to mitigate saline water intrusion. If, at any time during the term of the permit, the District determines that significant saline water intrusion is occurring or will occur as a result of the withdrawals authorized by this permit, the District shall revoke the permit in whole or in part to prevent or abate the impact caused by the saline water intrusion, unless the permittee avoids or mitigates the impact under a District-approved plan. The plan must contain a schedule for implementation of corrective action, which may include modification of the well construction, well rehabilitation and reduction in well withdrawal rates or other measures identified by the permittee to abate the impact. The permittee must implement the District-approved plan pursuant to the schedule set forth in the plan.

47. The permittee must adhere to the procedures and provisions set forth in the JEA Universal Well Interference Avoidance and Mitigation Procedure submitted to the District on July 3, 2012.
48. By February 28, 2015, the permittee must submit an alternative water supply facilities master plan. The plan must identify the proposed facilities and nontraditional water sources that the permittee (by itself or with partners) or others will develop to provide water supply within the permittee's service area when such sources are needed to supplement groundwater and reclaimed water use as allocated and conditioned under this permit. Options may include, but are not limited to, aquifer replenishment with reclaimed or surface water, potable reuse of reclaimed water, surface water, and ocean desalination. At a minimum, the plan must include:
- a. Identification of non-traditional water sources and facilities to meet a demand of at least 20 mgd;
  - b. Feasibility evaluation for sources considered will include, but not be limited to:
    - i. Source type,
    - ii. Source quantity range available,
    - iii. Regulatory and permitting issues,
    - iv. Ability to meet user needs,
    - v. Public acceptance issues,
    - vi. Projected costs, and
    - vii. Time required to implement each option evaluated;
  - c. A relative ranking of the evaluated sources in consideration that future sources and relative rankings will change due to future technological, environmental and economic conditions; and
  - d. A proposed schedule for selecting and implementing one or more of the options evaluated.
- The study shall be developed under the responsible charge of a Florida Registered Professional Engineer, and submitted under sign/seal to the District.
49. By December 31, 2016, the permittee must submit to the District an evaluation of water quality data for each well in the Deerwood III, Oakridge and Ridenour wellfields to assess the status and potential for saline water intrusion at these wellfields due to the permittee's withdrawals. At a minimum, the evaluation must include statistical trend analyses that quantify the estimated rate of change in chloride concentration (milligrams per liter per year) and any changes in the geochemistry of the groundwater.
50. The Post-River Crossing wellfield allocations in Figure 1a shall become effective on the date when the District receives written notice from the permittee that it is commencing regular operation of the proposed river crossing in the permittee's distribution system. The permittee may transmit the written notice by email or facsimile, subject to the labeling requirement of condition 17 of the permit. For the year in which the river crossing becomes operational, the specified wellfield allocations shall be prorated between the Pre-River Crossing and Post-River Crossing allocations, based on the date when the District receives the written notice specified above.
51. During construction of the first pilot hole associated with the Nassau Regional well modifications, the permittee must install a single element packer to isolate the Lower Floridan aquifer and conduct the following tests. The results must be submitted to the District within 30 days of completion, for review:
- a) Water level measurement at land surface,
  - b) Isolated water level measurement of the Lower Floridan aquifer within 50 feet of the bottom of the pilot hole/proposed total depth, or as agreed upon based on geophysical logs, and

c) Isolated water quality sample of the Lower Floridan aquifer within 50 feet of the bottom of the pilot hole/proposed total depth, analyzed in the field and by a certified laboratory for chloride, sulfate, total dissolved solids (TDS), pH, specific conductance, and temperature.

If the water quality and potentiometric heads for the Lower Floridan aquifer are demonstrated to be similar to the Upper Floridan aquifer at this site, then Well 1 and Well 3 can be deepened into the Lower Floridan aquifer, as approved by the District.

## Notice Of Rights

1. A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the St. Johns River Water Management District (District). Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code, the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-six (26) days of the District depositing the notice of District decision in the mail (for those persons to whom the District mails actual notice), within twenty-one (21) days of the District emailing the notice of District decision (for those persons to whom the District emails actual notice), or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Chapter 28-106, Florida Administrative Code. The District will not accept a petition sent by facsimile (fax), as explained in paragraph no. 4 below.
2. Please be advised that if you wish to dispute this District decision, mediation may be available and that choosing mediation does not affect your right to an administrative hearing. If you wish to request mediation, you must do so in a timely-filed petition. If all parties, including the District, agree to the details of the mediation procedure, in writing, within 10 days after the time period stated in the announcement for election of an administrative remedy under Sections 120.569 and 120.57, Florida Statutes, the time limitations imposed by Sections 120.569 and 120.57, Florida Statutes, shall be tolled to allow mediation of the disputed District decision. The mediation must be concluded within 60 days of the date of the parties' written agreement, or such other timeframe agreed to by the parties in writing. Any mediation agreement must include provisions for selecting a mediator, a statement that each party shall be responsible for paying its pro-rata share of the costs and fees associated with mediation, and the mediating parties' understanding regarding the confidentiality of discussions and documents introduced during mediation. If mediation results in settlement of the administrative dispute, the District will enter a final order consistent with the settlement agreement. If mediation terminates without settlement of the dispute, the District will notify all the parties in writing that the administrative hearing process under Sections 120.569 and 120.57, Florida Statutes, is resumed. Even if a party chooses not to engage in formal mediation, or if formal mediation does not result in a settlement agreement, the District will remain willing to engage in informal settlement discussions.
3. A person whose substantial interests are or may be affected has the right to an informal administrative hearing pursuant to Sections 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must also comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.

## Notice Of Rights

4. A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8:00 a.m. on the District's next regular business day. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, Florida Administrative Code), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). These conditions include, but are not limited to, the petition being in the form of a PDF or TIFF file and being capable of being stored and printed by the District. Further, pursuant to the District's Statement of Agency Organization and Operation, attempting to file a petition by facsimile is prohibited and shall not constitute filing.
5. Failure to file a petition for an administrative hearing within the requisite timeframe shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, Florida Administrative Code).
6. The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, Florida Statutes, Chapter 28-106, Florida Administrative Code, and Rule 40C-1.1007, Florida Administrative Code. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. A person whose substantial interests are or may be affected by the District's final action has the right to become a party to the proceeding, in accordance with the requirements set forth above.
7. Pursuant to Section 120.68, Florida Statutes, a party to the proceeding before the District who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.
8. A District action is considered rendered, as referred to in paragraph no. 7 above, after it is signed on behalf of the District and filed by the District Clerk.
9. Failure to observe the relevant timeframes for filing a petition for judicial review as described in paragraph no. 7 above will result in waiver of that right to review.

**Notice Of Rights**

**Certificate of Service**

I HEREBY CERTIFY that a copy of the foregoing Notice of Rights has been sent to the permittee:

Michael Dae  
JEA  
225 N. Pearl Street  
Jacksonville, FL 32202-4513

This 24th day of May, 2024.

A handwritten signature in black ink, appearing to read "Rich Burklew", with a long horizontal flourish extending to the right.

Richard Burklew, Bureau Chief

Permit Number: 88271-27

## NOTICING INFORMATION

Please be advised that the St. Johns River Water Management District will not publish a notice in the newspaper advising the public that it has issued a permit for this project.

Newspaper publication, using the District's notice form, notifies members of the public of their right to challenge the issuance of the permit. If proper notice is given by newspaper publication, then there is a 21-day time limit for someone to file a petition for an administrative hearing to challenge the issuance of the permit.

To close the point of entry for filing a petition, you may publish (at your own expense) a one-time notice of the District's decision in a newspaper of general circulation within the affected area as defined in Section 50.011 of the Florida Statutes. If you do not publish a newspaper notice to close the point of entry, the time to challenge the issuance of your permit will not expire and someone could file a petition even after your project is constructed.

A copy of the notice form and a partial list of newspapers of general circulation are attached for your convenience. However, you are not limited to those listed newspapers. If you choose to close the point of entry and the notice is published, the newspaper will return to you an affidavit of publication. In that event, it is important that you either submit a scanned copy of the affidavit by emailing it to [compliancesupport@sjrwmd.com](mailto:compliancesupport@sjrwmd.com) (preferred method) or send a copy of the original affidavit to:

Office of Records and Regulatory Support  
4049 Reid Street  
Palatka, FL 32177

If you have any questions, please contact the Office of Records and Regulatory Support at (386) 329-4570.

NOTICE OF AGENCY ACTION TAKEN BY THE  
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Notice is given that on \_\_\_\_\_ the District issued Permit No. \_\_\_\_\_ for a Consumptive Use Permit to serve (type of project) \_\_\_\_\_ activities. The total allocation authorized is \_\_\_\_\_ mgd of (groundwater/surface water). The project is located in \_\_\_\_\_ County, Section(s) \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ East. The permit applicant is \_\_\_\_\_.

If you wish to receive a copy of a Technical Staff Report (TSR) that provides the St. Johns River Water Management District (District) staffs' analysis on the above-listed compliance report(s) and associated permit(s), please submit your request to Office Director, Office of Records and Regulatory Support, PO Box 1429, Palatka, FL 32178-1429. You may view the TSR by going to the Permitting section of the District's website at [www.sjrwmd.com/permitting/index.html](http://www.sjrwmd.com/permitting/index.html). To obtain information on how to find and view a TSR, visit [https://permitting.sjrwmd.com/epermitting/html/EP\\_FAQs.html](https://permitting.sjrwmd.com/epermitting/html/EP_FAQs.html), and then follow the directions provided under "How to find a Technical Staff Report (TSR) or other application file documents."

A person whose substantial interests are or may be affected has the right to request an administrative hearing by filing a written petition with the District. Pursuant to Chapter 28-106 and Rule 40C-1.1007, Florida Administrative Code (F.A.C.), the petition must be filed (received) either by delivery at the office of the District Clerk at District Headquarters, P. O. Box 1429, Palatka Florida 32178-1429 (4049 Reid St., Palatka, FL 32177) or by e-mail with the District Clerk at [Clerk@sjrwmd.com](mailto:Clerk@sjrwmd.com), within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail or email actual notice). A petition for an administrative hearing is deemed filed upon receipt of the complete petition by the District Clerk at the District Headquarters in Palatka, Florida during the District's regular business hours. The District's regular business hours are 8 a.m. – 5 p.m., excluding weekends and District holidays. Petitions received by the District Clerk after the District's regular business hours shall be deemed filed as of 8 a.m. on the next regular District business day. A petition must comply with Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes (F.S.), and Chapter 28-106, F.A.C. The District's acceptance of petitions filed by e-mail is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation (issued pursuant to Rule 28-101.001, F.A.C.), which is available for viewing at [www.sjrwmd.com](http://www.sjrwmd.com). The District will not accept a petition sent by facsimile (fax). Mediation may be available if you meet the conditions stated in the full Notice of Rights (see last paragraph).

The right to an administrative hearing and the relevant procedures to be followed are governed by Chapter 120, F.S., Chapter 28-106, F.A.C., and Rule 40C-1.1007, F.A.C. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means the District's final action may be different from the position taken by it in this notice. **Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing. (Rule 28-106.111, F.A.C.).**

If you wish to do so, please visit [http://www.sjrwmd.com/nor\\_dec/](http://www.sjrwmd.com/nor_dec/) to read the complete Notice of Rights to determine any legal rights you may have concerning the District's decision(s) on the Consumptive Use Permit Application(s) described above. You can also request the Notice of Rights by contacting the Office Director, Office of Records and Regulatory Support, P. O. Box 1429, Palatka, FL 32178, phone (386)329-4570.

1-1a

<b>Figure 1a</b>	<b>Allocations by Wellfield (Mgals/Year)</b>	
	<b>Pre-River Crossing (2012-2013)</b>	<b>Post-River Crossing (2014-2031)</b>
<b>JEA Wellfield</b>		
<b>NORTH GRID:</b>	Mgals/Year	Mgals/Year
Cecil Commerce Center	2,208.25	3,281.35
Fairfax	1,168.00	2,839.70
Highlands	3,175.50	4,978.60
Lakeshore	255.50	715.40
Main Street	3,650.00	8,402.30
Marietta	2,190.00	2,923.65
McDuff	1,058.50	2,208.25
Northwest	0.00	1,430.80
Norwood	2,007.50	2,040.35
Southwest	3,832.50	4,547.90
Westlake	912.50	1,923.55
<b>SOUTH GRID:</b>		
9A-9B (Greenland)	0.00	1,653.45
Arlington	1,825.00	912.50
Beacon Hills	365.00	412.45
Brierwood	2,792.25	1,102.30
Community Hall	1,387.00	536.55
Deerwood III	3,741.25	2,555.00
Hendricks	1,460.00	1,460.00
Julington Creek Plantation	394.20	423.40
Lovegrove	1,095.00	730.00
Monument Road	182.50	182.50
Oakridge	3,339.75	2,062.25
Ridenour	4,015.00	2,500.25
Rivertown	0.00	686.20
Royal Lakes	912.50	854.10
Southeast	1,295.75	1,642.50
St. Johns Forest	525.60	365.00
St. Johns North	474.50	448.95
Woodmere	551.15	492.75
<b>PONTE VEDRA GRID:</b>		
Corona Road	390.55	408.80
Ponte Vedra North	98.55	87.60
<b>PONCE DE LEON GRID:</b>		
A1A South	14.60	14.60
A1A North	14.60	14.60
Ponce De Leon	138.70	160.60

<b>Figure 1a</b>	<b>Allocations by Wellfield (Mgals/Year)</b>	
	<b>Pre-River Crossing (2012-2013)</b>	<b>Post-River Crossing (2014-2031)</b>
<b>JEA Wellfield</b>		
<b>LOFTON OAKS :</b>		
Lofton Oaks	47.45	29.20
Nassau Regional	605.90	894.25
Otter Run	43.80	43.80
West Nassau Regional	277.40	573.05
<b>MAYPORT GRID:</b>		
Mayport	29.20	36.50
<b>JEA Total Withdrawal*</b>	46,475.45	56,575.00

**Note:**

The Post-River Crossing wellfield allocations in Figure 1a shall become effective on the date when the District receives written notice from the permittee that it is commencing regular operation of the proposed river crossing in the permittee's distribution system. The permittee may transmit the written notice by email or facsimile, subject to the labeling requirement of condition 17 of the permit. For the year in which the river crossing becomes operational, the specified wellfield allocations shall be prorated between the Pre-River Crossing and Post-River Crossing allocations, based on the date when the District receives the written notice specified above.

2-1b

**Figure 1b Page 1 of 4**  
**Allocations by Wellfield by Year (2011-2021) \***

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year
<b>North Grid:</b>											
Cecil Commerce	2,564.29	2,519.56	2,515.35	2,507.91	2,473.58	2,512.20	2,550.75	2,589.99	2,629.84	2,669.71	2,745.42
Fairfax	1,458.52	2,886.26	2,177.88	1,927.37	2,142.23	2,171.80	2,193.76	2,216.39	2,239.63	2,292.94	2,417.78
Highlands	3,796.90	3,599.94	3,633.72	3,084.57	3,093.90	3,149.47	3,191.39	3,234.23	3,277.87	3,375.05	3,496.92
Lakeshore	313.11	315.44	200.13	267.05	339.06	347.70	356.31	364.99	373.74	382.47	419.18
Main Street	1,823.15	1,813.77	3,143.21	6,658.63	7,100.94	7,545.05	8,059.02	8,564.71	9,073.79	9,357.25	9,331.42
Marietta	1,973.75	2,227.78	2,142.56	2,132.50	2,119.11	2,196.59	2,256.56	2,316.96	2,377.75	2,506.14	2,605.44
McDuff	2,374.05	2,168.64	2,122.94	2,105.40	2,092.14	2,149.82	2,194.11	2,238.92	2,284.19	2,381.44	2,577.20
Northwest	0.00	0.00	0.00	1,033.35	1,144.32	1,210.43	1,276.14	1,341.85	1,407.60	1,473.08	1,507.53
Norwood	1,541.75	512.59	486.59	472.17	566.38	589.93	608.22	626.60	645.08	683.86	837.38
Southwest	4,712.43	4,928.72	4,948.30	4,903.58	4,604.24	4,762.67	4,916.46	5,074.82	5,230.06	5,259.90	5,282.39
Westlake	816.45	788.60	784.82	855.32	1,074.97	1,086.09	1,097.22	1,108.69	1,120.46	1,132.26	1,198.62
<b>South Grid:</b>											
9A-9B (Greenland)	0.00	0.00	0.00	0.00	0.00	245.07	491.55	732.32	974.27	1,326.34	1,324.02
Arlington	1,572.90	1,585.92	1,581.85	1,392.13	1,386.62	1,287.49	1,189.34	1,088.21	991.30	896.89	905.20
Beacon Hills	424.15	465.20	509.71	389.80	405.59	404.54	403.55	402.43	401.29	400.28	410.72
Brierwood	2,679.81	1,585.92	1,581.85	1,566.15	1,559.95	1,518.76	1,478.08	1,437.26	1,396.68	1,356.87	1,351.04
Community Hall	1,590.57	1,585.92	1,581.85	1,566.15	1,386.62	1,311.66	1,237.46	1,163.50	1,090.09	1,017.65	979.50
Deerwood III	3,888.06	3,118.97	2,812.18	2,088.20	2,079.93	1,932.97	1,787.44	1,642.58	1,498.88	1,356.87	1,283.49
Hendricks	883.65	881.06	878.81	870.08	866.64	845.67	824.97	804.18	783.51	763.24	743.07
Julington Creek Plantation	392.34	528.64	506.19	501.17	485.32	486.69	488.11	489.35	490.54	491.87	507.99
Lovegrove	1,325.47	1,321.60	1,342.82	1,183.31	1,143.96	1,180.49	1,216.84	1,252.47	1,287.67	1,322.95	1,317.94
Monument Road	395.87	528.64	752.26	696.07	710.64	755.93	800.91	845.25	889.11	932.85	915.33
Oakridge	3,142.26	3,171.83	3,163.70	2,697.25	2,391.92	2,274.00	2,157.31	2,040.91	1,925.38	1,811.42	1,797.56
Ridenour	2,965.53	3,083.73	2,900.06	1,914.18	1,906.60	1,864.62	1,823.19	1,781.52	1,740.06	1,699.48	1,682.72
Rivertown	0.00	0.00	0.00	0.00	277.32	309.96	342.36	374.37	406.06	437.59	438.41
Royal Lakes	371.13	1,057.28	1,054.57	1,044.10	1,039.97	1,010.67	981.72	952.70	923.86	895.53	885.61
Southeast	1,194.69	1,409.70	1,845.49	1,479.14	1,490.62	1,539.47	1,588.07	1,635.74	1,682.83	1,730.01	1,709.06
St. Johns Forest	176.73	528.64	527.28	522.05	519.98	483.24	446.86	410.65	374.72	339.22	337.76
St. Johns North	215.61	528.64	527.28	522.05	519.98	517.76	515.61	513.31	510.98	508.83	506.64
Woodmere	487.77	511.02	520.25	435.04	519.98	496.36	472.98	449.66	426.50	403.67	409.36

**Figure 1b Page 2 of 4**  
**Allocations by Wellfield by Year (2011-2021)**

<b>Ponte Vedra Grid:</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>
Corona Road	382.92	381.14	379.72	380.94	385.19	383.25	387.47	385.61	383.66	387.83	386.05
Ponte Vedra North	73.33	71.46	72.88	71.66	71.06	73.00	72.43	74.29	72.59	72.07	73.85
<b>Ponce De Leon Grid:</b>											
A1A North	9.39	9.94	10.26	10.76	11.04	10.95	11.13	11.04	10.95	16.04	15.93
A1A South	23.46	24.84	25.65	32.27	33.13	32.85	33.40	33.12	32.85	32.09	31.85
Ponce De Leon	131.40	144.07	153.89	161.37	171.18	175.20	178.12	182.14	186.15	181.82	185.82
<b>Lofton Oaks Grid:</b>											
Lofton Oaks	39.53	40.28	41.16	42.01	41.14	42.58	43.62	45.11	46.42	47.68	48.25
Nassau Regional	679.88	628.39	572.17	516.68	436.08	459.90	484.20	509.79	533.78	557.81	579.02
Otter Run	55.34	56.39	57.63	58.81	57.60	59.62	61.07	63.16	64.98	66.75	67.55
West Nassau Reg.	83.01	169.18	263.44	357.05	436.08	459.90	484.20	509.79	533.78	557.81	579.02
<b>Mayport Grid:</b>											
Mayport	29.20	29.20	29.20	29.20	29.20	29.20	32.85	32.85	32.85	32.85	32.85

**Figure 1b Page 3 of 4**  
**Allocations by Wellfield by Year (2022-2031)**

	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year	Mgals/Year
<b>North Grid:</b>										
Cecil Commerce	2,820.62	2,895.84	2,971.08	3,046.05	3,143.98	3,241.58	3,338.46	3,436.17	3,533.81	3,609.87
Fairfax	2,541.85	2,665.63	2,789.16	2,912.17	3,046.90	3,181.14	3,314.50	3,448.55	3,582.40	3,659.50
Highlands	3,667.94	3,842.34	4,016.39	4,185.98	4,329.97	4,432.52	4,534.21	4,637.17	4,736.42	4,838.36
Lakeshore	455.67	492.03	528.28	564.36	591.50	618.54	645.41	672.41	699.36	714.41
Main Street	9,305.42	9,280.95	9,257.93	9,235.31	9,215.63	9,196.27	9,176.11	9,159.42	9,143.51	9,340.31
Marietta	2,704.10	2,802.63	2,901.06	2,999.10	3,128.15	3,256.74	3,384.47	3,512.93	3,641.21	3,719.58
McDuff	2,771.78	2,965.74	3,159.12	3,351.65	3,493.66	3,635.16	3,775.71	3,917.08	4,058.27	4,145.62
Northwest	1,541.74	1,576.00	1,610.30	1,644.49	1,678.28	1,711.97	1,745.35	1,779.25	1,813.16	1,852.19
Norwood	990.03	1,142.00	1,293.36	1,444.01	1,572.01	1,699.52	1,826.31	1,953.27	2,079.93	2,124.70
Southwest	5,304.58	5,327.44	5,350.94	5,374.50	5,447.33	5,520.00	5,591.82	5,665.42	5,739.21	5,862.74
Westlake	1,264.57	1,330.36	1,396.00	1,461.35	1,469.43	1,477.51	1,485.41	1,493.83	1,502.33	1,534.67
<b>South Grid:</b>										
9A-9B	1,318.27	1,312.74	1,306.97	1,298.41	1,362.31	1,425.76	1,488.24	1,549.98	1,610.89	1,589.64
Arlington	912.91	920.33	929.46	871.46	911.17	884.05	858.95	833.08	807.38	796.73
Beacon Hills	420.83	430.89	440.76	450.47	436.97	423.66	410.39	397.23	384.16	379.09
Brierwood	1,344.49	1,338.17	1,331.61	1,324.91	1,291.21	1,258.03	1,224.89	1,192.02	1,159.34	1,144.05
Community Hall	941.14	903.26	865.54	828.07	757.03	686.82	617.15	548.16	479.82	473.49
Deerwood III	1,210.04	1,137.44	1,065.29	993.68	950.62	908.13	865.85	823.96	782.40	772.08
Hendricks	722.66	702.54	682.45	662.45	593.17	524.66	456.72	389.44	322.82	318.57
Julington Creek Plantation	523.68	539.28	554.61	569.71	535.50	501.70	468.13	434.88	401.92	396.61
Lovegrove	1,312.22	1,306.72	1,300.98	1,295.10	1,353.08	1,410.68	1,467.36	1,523.37	1,578.61	1,557.79
Monument Road	897.45	879.85	862.22	844.63	807.37	770.59	734.01	697.75	661.79	653.06
Oakridge	1,782.79	1,768.39	1,753.73	1,738.94	1,737.98	1,737.28	1,736.17	1,734.97	1,733.57	1,710.70
Ridenour	1,665.15	1,647.96	1,630.55	1,613.07	1,614.73	1,616.60	1,618.08	1,619.43	1,620.58	1,599.20
Rivertown	438.98	439.59	440.10	507.11	440.92	441.37	441.71	442.02	442.27	436.44
Royal Lakes	875.26	865.13	854.89	844.63	840.98	837.49	833.83	830.16	826.43	815.53
Southeast	1,687.34	1,666.02	1,644.54	1,623.01	1,641.75	1,660.54	1,678.75	1,696.67	1,714.20	1,691.58
St. Johns Forest	336.12	334.54	332.90	331.23	314.25	297.49	280.82	264.31	247.94	244.67
St. Johns North	504.18	501.81	499.35	496.84	494.31	491.87	489.34	486.80	484.24	477.85
Woodmere	414.78	420.19	425.45	430.59	447.51	464.32	480.86	497.19	513.29	506.52

**Figure 1b Page 4 of 4**  
**Allocations by Wellfield by Year (2022-2031)**

<b>Ponte Vedra Grid:</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>
	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>	<b>Mgals/Year</b>
Corona Road	390.18	388.47	392.58	390.53	391.95	392.94	396.99	395.39	399.42	402.49
Ponte Vedra North	73.37	75.08	74.62	73.03	75.25	74.26	73.86	75.46	75.08	75.66
<b>Ponce De Leon Grid:</b>										
A1A North	15.57	15.23	14.91	14.91	14.60	14.30	14.30	14.02	13.74	13.74
A1A South	36.34	35.55	34.79	34.79	34.07	33.37	33.37	32.70	32.06	32.06
Ponce De Leon	181.69	182.82	183.90	183.90	184.93	185.93	185.93	186.88	187.80	187.80
<b>Lofton Oaks Grid:</b>										
Lofton Oaks	49.03	49.78	50.52	51.00	51.43	51.98	52.39	52.44	52.95	54.03
Nassau Regional	598.16	617.33	636.53	657.85	673.76	691.35	707.28	723.65	741.29	756.41
Otter Run	68.64	69.70	70.73	71.40	72.00	72.77	73.35	73.41	74.13	75.64
West Nassau Reg.	598.16	617.33	636.53	657.85	673.76	691.35	707.28	723.65	741.29	756.41
<b>Mayport Grid:</b>										
Mayport	36.50	36.50	36.50	36.50	36.50	36.50	36.50	36.50	36.50	40.15

\* JEA has elected to preserve these allocations in light of the modifications to Figure 1a.

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FIGURE 2 DISTRICT STATION IDS AND JEA WELL NAMES – Page 1 of 2

Site	District Well ID	JEA WELL NAME	Site	District Well ID	JEA WELL NAME	Site	District Well ID	JEA WELL NAME
9A/9B (Greenland)	223642	9A-9B Greenland - 1	Deerwood III	6097	Deerwood 3 - 5701 (JEA Well - 1)	Jullington Creek Plantation	15015	JCP - 1
	230916	9A-9B Greenland - 2		6098	Deerwood 3 - 5702 (JEA Well - 2)		15016	JCP - 2
	481537	9A-9B Greenland - 3		6099	Deerwood 3 - 5703 (JEA Well - 3)		535328	JCP - 3
	535323	Greenland - 4		6100	Deerwood 3 - 5704 (JEA Well - 4)		535329	JCP - 4
	535324	Greenland - 5		22539	Deerwood 3 - 5705 (JEA Well - 5)		535331	JCP - 5
	535325	Greenland - 6		22540	Deerwood 3 - 5706 (JEA Well - 6)	Lakeshore	6117	Lakeshore - 501
Arlington	6085	Arlington - 5402 (JEA Well - 1)	Fairfax	35645	Deerwood 3 - 5707 (JEA Well - 7)		6116	Lakeshore - 502
	6086	Arlington - 5403 (JEA Well - 2)		38533	Deerwood 3 - 5708 (JEA Well - 8)		6120	Lakeshore - 503
	6087	Arlington - 5404 (JEA Well - 3)		535315	Deerwood - 2R		6118	Lakeshore - 504
	6088	Arlington - 5405 (JEA Well - 4)		535316	Deerwood - 9		6115	Lakeshore - 505
	34488	Arlington - 5406 (JEA Well - 5)		535317	Deerwood - 10		230903	Lakeshore - 506
	535304	Arlington - 1R		535318	Deerwood - 11	Lofton Oaks	19914	Lofton Oaks 1 (well 3)
	535306	Arlington - 3R		6160	Fairfax - 301		6052	Lovegrove - 5201
Beacon Hills	6033	Beacon Hills - 1		6163	Fairfax - 302	Lovegrove	6054	Lovegrove - 5203
	6034	Beacon Hills - 2		6159	Fairfax - 303		6055	Lovegrove - 5204
	535308	Beacon Hills - 2R		6157	Fairfax - 304		6207	Mayport - 8A01
				6161	Fairfax - 306	Mayport	6208	Mayport - 8A03
Brierwood	22522	Brierwood - 1	Hendricks	6158	Fairfax - 307	Main Street	6171	Main Street – 101 (JEA - 1)
	22523	Brierwood - 2		6162	Fairfax - 308		6170	Main Street – 102 (JEA - 2)
	22524	Brierwood - 3		6101	Hendricks - 5001		6167	Main Street - 103 (JEA - 6)
	22525	Brierwood - 4		6102	Hendricks - 5002		6172	Main Street – 104 (JEA - 7)
	22526	Brierwood - 5		6103	Hendricks - 5003		6169	Main Street - 105 (JEA - 8)
	535310	Brierwood - 6		6074	Hendricks - 5107		6165	Main Street – 107 (JEA - 12)
Cecil Commerce	35408	Cecil Commerce - 1	Highlands	6076	Hendricks - 5108		6166	Main Street – 108 (JEA - 10)
	35409	Cecil Commerce - 2		6075	Hendricks - 5110		6164	Main Street – 119 (JEA - 3)
	35410	Cecil Commerce - 3		6105	Hendricks - 5501		230905	Main Street 109 (JEA - 14)
	35411	Cecil Commerce - 4		6104	Hendricks - 5502		230906	Main Street 110 (JEA - 13)
	38536	Cecil Commerce - 5		6125	Highlands - 601		230907	Main Street 111 (JEA - 15)
Cobblestone	6035	Cobblestone - 1		6124	Highlands - 602		230908	Main Street 112 (JEA - 16)
	6036	Cobblestone - 2		6128	Highlands - 603		6179	Main Street 120 (JEA - 4)
Community Hall	6069	Community Hall - M104 (JEA Well - 6)		6127	Highlands - 604		449005	Main Street 6A (JEA - 6A)
	6090	Community Hall - M105 (JEA Well - 7)		6126	Highlands - 605		535332	Main Street - 17
	6091	Community Hall - M501 (JEA Well - 1)		230901	Highlands – 606		535334	Main Street - 18
	6092	Community Hall - M502 (JEA Well - 2)		230902	Highlands – 607		535335	Main Street - 2R
	6093	Community Hall - M503 (JEA Well - 3)					535336	Main Street - 3R
	6094	Community Hall - M504 (JEA Well - 4)				Marietta	6148	Marietta - 701
	34327	Community Hall - M505 (JEA Well - 5)					6149	Marietta - 702
	535311	Community Hall - 8					6147	Marietta - 703
	535313	Community Hall - 9					6145	Marietta - 704

FIGURE 2 DISTRICT STATION IDS AND JEA WELL NAMES – Page 2 of 2

Site	District Well ID	JEA WELL NAME	Site	District Well ID	JEA WELL NAME	Site	District Well ID	JEA WELL NAME
Monument	23162	Monument - 1	Ponce de Leon	533144	Ponce 1R	St Johns North	22058	St Johns North - 3
	5894	Monument - 2		476494	Ponce 3 (Ponce 1-C)		22059	St Johns North - 4
McDuff	6175	McDuff - 201		105544	Ponce A1A S Replacement		535351	St. Johns North - 5
	6178	McDuff - 203	Ridenour	243339	Ponce A1A N Replacement	West Nassau	223643	West Nassau 1
	6176	McDuff - 204		22567	Ridenour - 5901 (JEA Well - 1)		232249	West Nassau 2
	6114	McDuff - 205		22568	Ridenour - 5902 (JEA Well - 2)	Westlake	34989	Westlake - 2
	6177	McDuff - 206		22569	Ridenour - 5903 (JEA Well - 3)		36136	Westlake - 3
Nassau	19915	Nassau Regional - 1 (JEA - 1)		34484	Ridenour - 5904 (JEA Well - 4)		38525	Westlake - 4
	35838	Nassau Regional - 2 (JEA - 5)		34485	Ridenour - 5905 (JEA Well - 5)		230915	Westlake - 5
	481308	Nassau Regional - 3		34486	Ridenour - 5906 (JEA Well - 6)	Woodmere	6032	Woodmere - 2
	535337	Nassau Regional - 4		34487	Ridenour - 5907 (JEA Well - 7)		459603	Woodmere - 3
Northwest	223644	Northwest - 1		535341	Ridenour - 1R		535353	Woodmere - 4
	230910	Northwest - 2		535342	Ridenour - 8	Wholesale Interconnects	407870	Palm Valley to SJCUD
	230911	Northwest - 3	Rivertown	535343	Ridenour - 9		407871	Marsh Harbor to SJCUD
	230912	Northwest - 4		204343	Rivertown - 1		707872	JEA to NAS Jax
Norwood	6134	Norwood - 401		230917	Rivertown - 2			
	6133	Norwood - 402	Royal Lakes	491181	Rivertown - 3			
	6113	Norwood - 403		5946	Royal Lakes - A			
	6135	Norwood - 404		5947	Royal Lakes - B			
Oakridge	6060	Oakridge - 5301 (JEA - 1)	St. Johns Forest	535344	Royal Lakes - C			
	6061	Oakridge - 5302 (JEA - 2)		15112	SJF - 1D			
	6063	Oakridge - 5304 (JEA - 4)		15114	SJF - 2D			
	6064	Oakridge - 5305 (JEA - 5)		503579	SJF - 5			
	35998	Oakridge - 5306 (JEA - 6)		535346	SJF - 6			
	38532	Oakridge - 5307 (JEA - 7)		535347	SJF - 7			
	38538	Oakridge - 5308 (JEA - 8)		535348	SJF - 8			
	535338	Oakridge - 7R	Southeast	6081	Southeast - 5801			
	535339	Oakridge - 9		6082	Southeast - 5802			
	535340	Oak Ridge - 10		39253	Southeast - 5803			
Otter Run	19912	Otter Run 1 (well - 1)		230918	Southeast - 5804			
	19913	Otter Run 2 (well - 2)	Southwest	6141	Southwest - 1			
Ponte Vedra	14726	Ponte Vedra - 1 Corona		6142	Southwest - 2			
	14727	Ponte Vedra - 2 Corona		6139	Southwest - 3			
	232257	Ponte Vedra - 3 Corona		24929	Southwest - 4			
	14728	Ponte Vedra - 3 North		5942	Southwest - 6			
	232258	Ponte Vedra - 4 Corona		230913	Southwest - 7			
	232259	Ponte Vedra - 5 Corona		230914	Southwest - 8			

4-3

**FIGURE 3**  
**JEA Groundwater Monitoring Network**  
**Quarterly Water Quality and Monthly Water Level Monitoring Schedule**

Site Location	Limited Parameters <sup>1</sup>	Major Ion Suite <sup>2</sup>	Water Levels <sup>3</sup>
	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)
9A -9B Wellfield (Site 7, Fig 6)	9A -9B 1 (223642 - Well 1)	9A -9B 2 (230916 - Well 2)	
		Greenland (535323 - Well 4)	
		Greenland (535324 - Well 5)	
		[N] 9A-9B LFA MW (407883)	[N] 9A-9B LFA MW (407883)
Arlington Wellfield	Arlington – 5402 (6085 - Well 1)	Arlington – 5404 (6087)	
	Arlington – 5403 (6086 - Well 3)		
	Arlington – 5405 (6088 - Well 4)		
	Arlington – 5406 (34488 - Well 5)		
	Arlington - 535304 (Well 1R)		
	Arlington - 535306 (Well 3R)	[E] MWA1 - LFA MW (38419)	[E] MWA1 - LFA MW (38419)
Beacon Hills Wellfield	Beacon Hills – 6033 (Well 1)		
	Beacon Hills – 6034 (Well 2)		
	Beacon Hills - (535308 - Well 2R)		
Brierwood	Brierwood – 1 (22522)	Brierwood – 4 (22525)	
	Brierwood – 2 (22523)		
	Brierwood – 3 (22524)		
	Brierwood – 5 (22526)		
		[E] MWB1 - LFA MW (243331)	[E] MWB1 - LFA MW (24431)
Cecil Commerce	Cecil Com – 2 (35409)	Cecil Com – 1 (35408)	
	Cecil Com – 3 (35410)		
	Cecil Com – 4 (35411)		
	Cecil Com – 5 (38536)		
Cobblestone	Cobblestone – 1 (6035)	Cobblestone – 2 (6036)	
Community Hall	Com Hall – M104 (6069 - Well 6)	Com Hall – M502 (6092)	Community Hall – M505 (34327)
	Com Hall – M105 (6090 - Well 7)		
	Com Hall – M501 (6091 - Well 1)		
	Com Hall – M503 (6093 - Well 3)		
	Com Hall – M504 (6094 - Well 4)		
	Com Hall - 535311 - Well 8		
			[E] MWC-1 IAS (38604)
			[E] MWC-2 SAS (38605)
		[E] MWC-3 LFA MW (38603)	[E] MWC-3 LFA MW (38603)

**FIGURE 3**  
**JEA Groundwater Monitoring Network**  
**Quarterly Water Quality and Monthly Water Level Monitoring Schedule**

Site Location	Limited Parameters <sup>1</sup>	Major Ion Suite <sup>2</sup>	Water Levels <sup>3</sup>
	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)
Confederate Point (Site 5, Fig 6)		[N] Confederate Point UFA MW (409700)	[N] Confederate Point UFA MW (TBD)
Deerwood 3		Deerwood 3 – 5701 (6097 - Well 1)	
		Deerwood 3 – 5702 (6098 - Well 2)	
		Deerwood 3 – 5703 (6099 - Well 3)	
		Deerwood 3 – 5704 (6100 - Well 4)	
		Deerwood 3 – 5705 (22539 - Well 5)	
		Deerwood 3 – 5706 (22540 - Well 6)	
		Deerwood 3 – 5707 (35645 - Well 7)	
		Deerwood 3 – 5708 (38533 - Well 8)	
		Deerwood 3 - 535315 (Well 2R)	
		Deerwood 3 - 535316 (Well 9)	
		Deerwood 3 - 535317 (Well 10)	
		[E] Deerwood LFA MW (38600)	[E] Deerwood LFA MW (38600)
Fairfax	Fairfax – 301 (6160)	Fairfax – 303 (6159)	Fairfax – 306 (6161)
	Fairfax – 302 (6163)		
	Fairfax – 304 (6157)		
	Fairfax – 305 (6156)		
	Fairfax – 307 (6158)		
	Fairfax – 308 (6162)		
Hendricks	Hendricks – 5001 (6101)		
	Hendricks – 5002 (6102)		
	Hendricks – 5003 (6103)		
	Hendricks – 5107 (6074)		
	Hendricks – 5108 (6076)		
	Hendricks – 5110 (6075)		
	Hendricks – 5501 (6105)		
	Hendricks – 5502 (6104)		
Highlands	Highlands – 601 (6125)	Highlands – 605 (6126)	
	Highlands – 602 (6124)		
	Highlands – 603 (6128)		
	Highlands – 604 (6127)		
	Highlands – 606 (230901)		
	Highlands – 607 (230902)		
		[E] MWH1 - LFA MW (38607)	[E] MWH1 - LFA MW (38607)
		[E] MWH2 - UFA MW (38608)	[E] MWH2 - UFA MW (38608)

**FIGURE 3**  
**JEA Groundwater Monitoring Network**  
**Quarterly Water Quality and Monthly Water Level Monitoring Schedule**

Site Location	Limited Parameters <sup>1</sup>	Major Ion Suite <sup>2</sup>	Water Levels <sup>3</sup>
	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)
Julington Creek Plantation	JCP – 15015 - Well 1		
	JCP – 15016 - Well 2		
	JCP - 535328 - Well 3		
	JCP - 535329 - Well 4		
Lake Lucina-Columbine or Elvia Dr. (Site 6, Fig 6)		[R] Lake Lucina-Columbine or Elvia Dr. UFA MW (409701)	[R] Lake Lucina-Columbine or Elvia Dr. UFA MW (409701)
Lakeshore	Lakeshore – 501 (6117)	Lakeshore – 502 (6116)	
	Lakeshore – 503 (6120)		
	Lakeshore – 504 (6118)		
	Lakeshore – 505 (6115)		
	Lakeshore – 506 (230903)		
Lincoln Estates (Site 3, Fig 6)		[N] Lincoln Estates UFA MW (409702)	[N] Lincoln Estates UFA MW (409702)
JEA Cell Tower Site (Site 2, Fig 6)		[N] Loblolly UFA MW (409703)	[N] Loblolly Surficial MW (409705)
		[N] Loblolly LFA MW (409704)	[N] Loblolly Intermediate MW (409706)
			[N] Loblolly UFA MW (409703)
			[N] Loblolly LFA MW (409704)
Lofton Oaks	1 Well 3 (19914)		
Lovegrove	Lovegrove – 5201 (6052)		
	Lovegrove – 5203 (6054)		
	Lovegrove – 5204 (6055)		
Main Street	Main St. – 101 (6171 - Well 1)	Main St. – 6A (449005)	
	Main St. – 102 (6170 - Well 2)		
	Main St. – 104 (6172 - Well 7)		
	Main St. – 105 (6169)		
	Main St. – 107 (6165 - Well 12)		
	Main St. – 108 (6166 - Well 10)		
	Main St. – 109 (230905 - Well 14)		
	Main St. – 110 (230906 - Well 13)		
	Main St. – 111 (230907 - Well 15)		
	Main St. – 112 (230908 - Well 16)		
	Main St. – 119 (6164 - Well 3)		
	Main St. – 120 (6179 - Well 4)		
	Main St. – 535332 - Well 17		
	Main St. – 535334 - Well 18		
	Main St. – 535335 - Well 2R		
	Main St. – 535336 - Well 3R		

**FIGURE 3**  
**JEA Groundwater Monitoring Network**  
**Quarterly Water Quality and Monthly Water Level Monitoring Schedule**

Site Location	Limited Parameters <sup>1</sup>	Major Ion Suite <sup>2</sup>	Water Levels <sup>3</sup>
	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)
Main St, Fairfax, McDuff (Site 1, Fig 6)		[N] Main St. Fairfax, McDuff – UFA MW (409707)	[N] Main St. Fairfax, McDuff – UFA MW (409707)
		[N] Main St. Fairfax, McDuff – LFA MW (409708)	[N] Main St. Fairfax, McDuff – LFA MW (409708)
Marietta	Marietta – 701 (6148)	Marietta – 702 (6149)	
	Marietta – 703 (6147)		
	Marietta – 704 (6145)		
Mayport	Mayport – 8A01 (6207)		
	Mayport – 8A03 (6208)		
McDuff	McDuff – 201 (6175)	McDuff – 206 (6177)	
	McDuff – 202 (6174)		
	McDuff – 203 (6178)		
	McDuff – 204 (6176)		
	McDuff – 205 (6114)		
Monument	Monument – 2 (5894)	Monument – 1 (23162)	
Nassau Regional	Nassau Reg - 35838 - Well 2	Nassau Reg – (19915 - Well 1)	
	Nassau Reg - 481308 - Well 3		
	Nassau Reg - 535337 - Well 4		
Northwest	Northwest – 2 (230910)	Northwest – 1 (223644)	
	Northwest – 3 (230911)		
	Northwest – 4 (230912)		
Norwood	Norwood – 401 (6134)	Norwood – 402 (6133)	
	Norwood – 403 (6113)		
	Norwood – 404 (6135)		
Oakridge	Oakridge – 5301 (6060 - Well 1)	Oakridge – 5304 (6063)	
	Oakridge – 5302 (6061 - Well 2)		
	Oakridge – 5305 (6064 - Well 5)		
	Oakridge – 5306 (35998 - Well 6)		
	Oakridge – 5307 (38532 - Well 7)		
	Oakridge – 535338 - Well 7R		
	Oakridge – 535339 - Well 9		

**FIGURE 3**  
**JEA Groundwater Monitoring Network**  
**Quarterly Water Quality and Monthly Water Level Monitoring Schedule**

Site Location	Limited Parameters <sup>1</sup>	Major Ion Suite <sup>2</sup>	Water Levels <sup>3</sup>
	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)
Otter Run	Otter Run – 1 (19912)		
	Otter Run – 2 (19913)		
Ponce de Leon	Ponce – 1R (533144)		
	Ponce – 3 (1C) (476494)		
	Ponce A1A S Replacement (105544)		
	Ponce A1A N Replacement (243339)		
Ponte Vedra	Ponte Vedra – 1 Corona (14726)		
	Ponte Vedra – 2 Corona (14727)		
	Ponte Vedra – 3 Corona (232257)		
	Ponte Vedra – 3 North (14728)		
	Ponte Vedra – 4 Corona (232258)		
	Ponte Vedra – 5 Corona (232259)		
Ridenour	Ridenour – 5901 (22567 - Well 1)	Ridenour – 5902 (22568)	
	Ridenour – 5903 (22569 - Well 3)		
	Ridenour – 5904 (34484 - Well 4)		
	Ridenour – 5905 (34485 - Well 5)		
	Ridenour – 5906 (34486 - Well 6)		
	Ridenour – 5907 (34487 - Well 7)		
	Ridenour - 535341 - Well 1R	[E] MWR2 LFA MW (38420)	[E] MWR2 LFA MW (38420)
	Ridenour - 535342 - Well 8	[E] MWR1 UFA MW (38421)	[E] MWR1 UFA MW (38421)
Rivertown	Rivertown – 2 (230917)	Rivertown – 1 (204343)	
		Rivertown – 3 (491181)	
Rolling Hills (Site 4, Fig 6)		[R] Rolling Hills LFA MW (409709)	[R] Rolling Hills LFA MW (409709)
		[N] Rolling Hills UFA MW (409710)	[N] Rolling Hills UFA MW (409710)
Royal Lakes	Royal Lakes – A (5946)		
	Royal Lakes – B (5947)		
St. Johns Forest	SJF – 15112 - Well 1D	SJF – 503579 - Well 5	
	SJF – 15114 - Well 2D		
	SJF - 535346 - Well 6		
	SJF - 535348 - Well 8		
SJRPP (Site 8, Fig 6)		[N] SJRPP UFA MW (181221)	[N] SJRPP UFA MW (181221)
		[E] SJRPP LFA MW (181220)	[E] SJRPP LFA MW (181220)

**FIGURE 3**  
**JEA Groundwater Monitoring Network**  
**Quarterly Water Quality and Monthly Water Level Monitoring Schedule**

Site Location	Limited Parameters <sup>1</sup>	Major Ion Suite <sup>2</sup>	Water Levels <sup>3</sup>
	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)	JEA Well Name (District Station ID)
Southeast	Southeast – 5801 (6081)	[E] MWS1 – LFA MW (38606)	[E] MWS1 – LFA MW (38606)
	Southeast – 5802 (6082)		
	Southeast – 5803 (39253)		
	Southeast – 5804 (230918)		
Southwest	Southwest – 1 (6141)	Southwest – 2 (6142)	
	Southwest – 3 (6139)		
	Southwest – 4 (24929)		
	Southwest – 6 (5942)		
	Southwest – 7 (230913)		
	Southwest – 8 (230914)		
St. Johns North	St. Johns North – 2 (14493)		
	St. Johns North – 3 (22058)		
	St. Johns North – 4 (22059)		
West Nassau (Site 9, Fig 6)	West Nassau – 2 (232249)	West Nassau – 1 (223643) [N] West Nassau LFA MW (407885)	[N] West Nassau LFA MW (407885)
Westlake	Westlake – 3 (36136)	Westlake – 2 (34989)	
	Westlake – 4 (38525)		
	Westlake – 5 (230915)		
		[E] Westlake – UFA MW (34988)	[E] Westlake – UFA MW (34988)
Woodmere	Woodmere – 2 (6032)	Woodmere – 3 (459603)	

Water samples must be collected quarterly as follows:

Quarter 1 (January – March)

Quarter 2 (April – June)

Quarter 3 (July – September)

Quarter 4 (October – December)

Results must be submitted to the District quarterly no later than the last day of the month following the last month of the quarter (for example, results for Quarter 1 must be submitted to the District no later than April 30).

All water samples must include the following field measurements:

Water Temperature (°C)

pH (SU)

Specific Conductance (umhos/cm or uS/cm)

Turbidity (NTU)

<sup>1</sup> Limited Parameters – must be analyzed in the laboratory for Chloride (mg/L), Sulfate (mg/L), Total Dissolved Solids (mg/L) and Specific Conductance (umhos/cm or uS/cm).

<sup>2</sup> Major Ion Suite – must be analyzed in the laboratory for Calcium (mg/L), Magnesium (mg/L), Potassium (mg/L), Sodium (mg/L), Total Iron (mg/L), Chloride (mg/L), Sulfate (mg/L), Bicarbonate Alkalinity (as mg/L CaCO<sub>3</sub>), Carbonate Alkalinity (as mg/L CaCO<sub>3</sub>), Total Dissolved Solids (mg/L) and Specific Conductance (umhos/cm or uS/cm).

<sup>3</sup> Groundwater Levels – must be measured daily at noon to an accuracy of 0.01-foot using dedicated data loggers, corrected to compensate for changes in barometric pressure (if required), converted to elevations relative to the North American Vertical Datum (NAVD) of 1988 and submitted to the District, unless other arrangements between the District and permittee are made, monthly no later than the last day of the month following the month that the measurements were obtained (for example, the results for groundwater level elevations measured in February must be submitted to the District no later than March 31).

Monitor Well Status:

[E] = Existing

[N] = Proposed

[R] = To be Reconstructed

5-4



6-5

## **Figure 5**

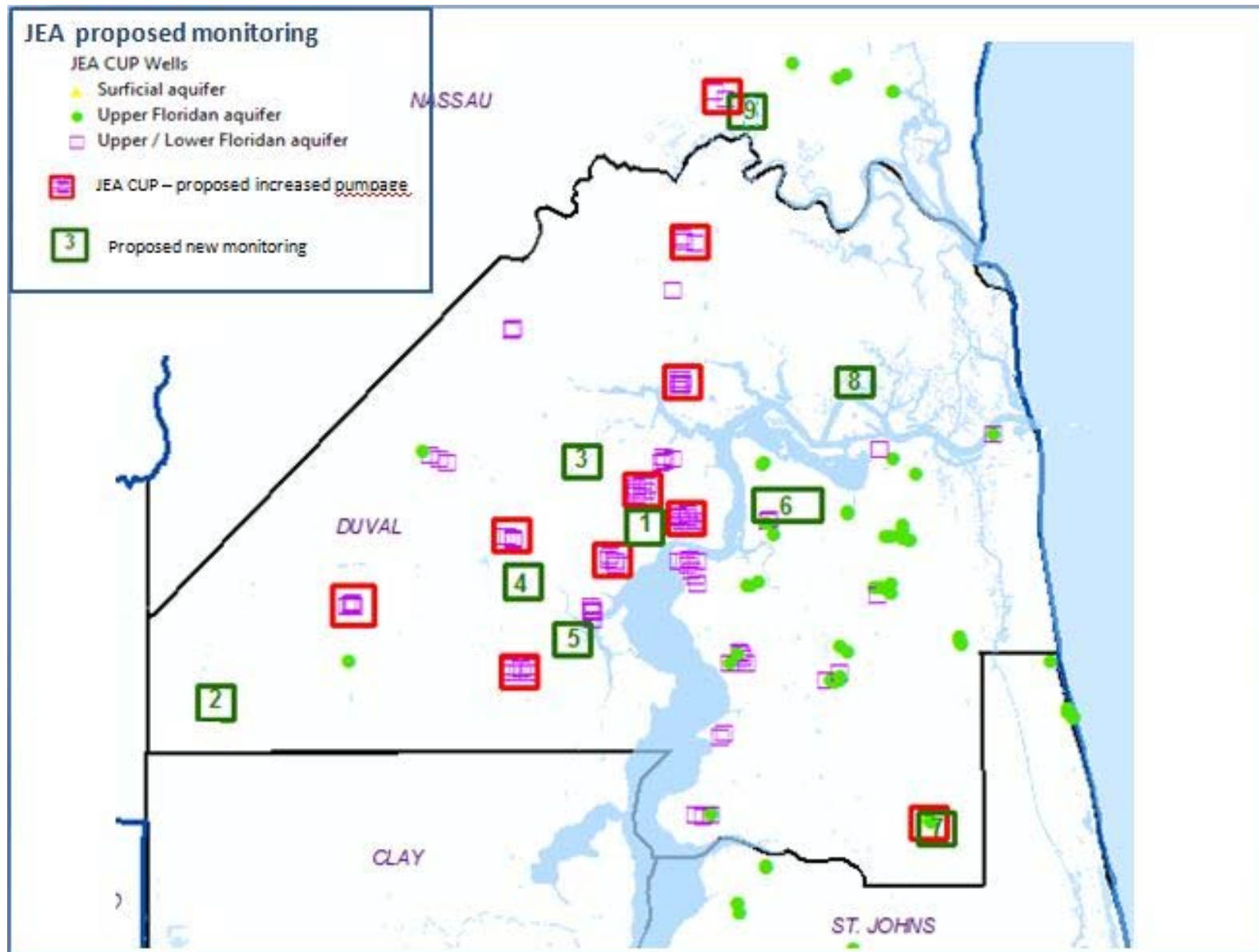
### **JEA Groundwater Monitoring Network Monitoring Well Construction Plan**

Note: Each site number is identified on FIGURE 6. JEA to do continuous water level measurements, reported monthly and quarterly water quality sampling at all sites (in accordance with Figure 3), with data electronically downloaded to the District's Hydrologic Data Services Division. The sites are listed in order of priority for well construction or continued use.

1. Construct new monitoring wells (Upper Floridan and Lower Floridan aquifer) between the Main St., Fairfax, and McDuff JEA CUP wells by June 2012.
2. Construct new monitoring wells (surficial, intermediate, Upper Floridan, and Lower Floridan aquifer) at JEA's Cell Tower Site on Yellow Water Rd. before January 2013 (approximate location 301300 latitude, 820000 longitude).
3. Construct new Upper Floridan monitoring well next to existing D-0592 (Lower Floridan well) at Lincoln Estates before January 2014.
4. Reconstruct D-0221 (currently Upper / Lower Floridan well) at Rolling Hills to Upper Floridan well. Construct new Lower Floridan monitoring well next to reconstructed D-0221 before January 2014.
5. Construct new Upper Floridan monitoring well next to existing D-0075 (Lower Floridan well) at Confederate Point before January 2014.
6. Reconstruct one well ( Lake Lucina– Columbine- Elvia Drive) to Upper Floridan monitoring well (near Arlington LFA monitoring well) before January 2014.
7. Construct new Lower Floridan monitoring well at 9A 9B JEA CUP wells before January 2015.
8. Use existing Upper Floridan monitoring well at SJRPP before January 2015.
9. Construct new Lower Floridan aquifer well at West Nassau Regional wellfield before January 2015.

7-6

Figure 6  
JEA Groundwater Monitoring Network



## **Appendix E – Nassau County 2030 Comprehensive Plan Elements**

# Nassau County 2030 Comprehensive Plan

## **Conservation Element (CS)**

### **Goals, Objectives and Policies**

#### **Goal**

**Conserve, protect and enhance the natural resources that are important to the economy, health, and quality of life of County residents, ensuring that adequate resources are available for future generations.**

#### **OBJECTIVE CS.01**

The County will ensure that it has adequate water supplies, of a quality sufficient for its intended use to meet existing and projected future demands.

##### **Policy CS.01.01**

RESERVED

##### **Policy CS.01.02**

The County shall only permit future land development to proceed if adequate water supply capacity is available to accommodate the impacts of development.

##### **Policy CS.01.03**

The County's Land Development Code (LDC) shall include provisions, such as reduced densities and reduced impervious surfaces in areas of high aquifer recharge to protect the functions of natural drainage systems and natural groundwater aquifer recharge areas, as identified by the St. Johns River Water Management District.

##### **Policy CS.01.04**

The County shall, upon request, cooperate with and assist the St. Johns River Water Management District (SJRWMD) to facilitate the enforcement of water shortage emergency declaration, orders, and plans pursuant to Ch. 373.609 Florida Statutes; and Rule 40C-21, Florida Administrative Code.

##### **Policy CS.01.05**

The County shall continue to enforce the Uniform Energy Conservation Construction Code that requires water conserving plumbing fixtures and devices in new construction.

**Policy CS.01.06**

The County shall, in cooperation with the St. Johns River Water Management District (SJRWMD), include provisions in its Land Development Code (LDC) shall to incentivize the use of Low Impact Development (LID) techniques such as bio-retention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements, to reduce the impact of built areas and promote the natural movement of water within the watershed.

## **OBJECTIVE CS.02**

**The County shall protect natural communities and ecological systems that provide important natural functions for maintenance of environmental quality and wildlife habitats.**

### **Policy CS.02.01**

The County shall maintain or expand regulations in the Land Development Code (LDC) that provide for tree protection standards on Amelia Island.

### **Policy CS.02.02**

The County shall adopt regulations in the Land Development Code (LDC) that require clustering of development in order to preserve wetlands, important native vegetative communities, and other environmentally sensitive communities, by reducing or prohibiting development in the sensitive areas of the property.

### **Policy CS.02.03**

The County will monitor construction sites for NPDES requirements including the use of temporary fabric barriers or similar means to mitigate the impacts of silt and untreated stormwater runoff.

### **Policy CS.02.04**

The Land Development Code shall include requirements to preserve/replace the natural/native vegetation along perennial streams and waterways as defined in best management practices for silviculture to maintain the ecological functions of the area, to control erosion, and to retard runoff.

### **Policy CS.02.05**

For existing development that has a direct impact on adjacent wetlands and water bodies, retrofitting for stormwater control shall be required when a building permit is issued for construction, rehabilitation or reconstruction activities, if the cost of the activity is 60% or more of the structure's value.

### **Policy CS.02.06**

Wetlands identified by the most recent SJRWMD land use and cover inventory are mapped as part of the Future Land Use Map series. All wetlands, as verified by jurisdictional field delineation at the time of project permitting, are designated as Conservation I on the Future Land Use Map and shall be protected by policies contained within this Plan.

### **Policy CS.02.07**

Wetlands shall be defined pursuant to the methodology prescribed in Chapter 373 Florida Statutes and Rule 62-343, F.A.C.

#### **Policy CS.02.08**

Incompatible land uses shall be directed away from wetlands by the following mechanisms:

- A) Development shall first avoid wetland impacts and then minimize impacts when they are unavoidable.
- B) Upland buffers required for development adjacent to wetlands shall be as described by Future Land Use Element Policy FL.04.01(A-J).
- C) The Land Development Code (LDC) shall require the clustering of non-agricultural land uses away from wetlands.

#### **Policy CS.02.09**

Where appropriate, freshwater wetlands shall be incorporated into stormwater management plans in order to ensure the continuity of natural flow ways.

#### **Policy CS.02.10**

Proposed development on parcels containing wetlands shall direct land uses away from wetlands by clustering the development to maintain the largest contiguous wetland area practicable and to preserve the pre-development wetland conditions. Proposed development shall first seek to avoid wetland impacts and then to minimize impacts when they are unavoidable consistent with state and/or federal permitting programs. (Note: This policy is not intended to duplicate any federal or state wetlands permitting program).

#### **Policy CS.02.11**

Where projects have unavoidable adverse impacts to wetlands, mitigation shall be required in order to ensure that the project does not result in a net loss of wetland functions. Mitigation requirements shall be determined using the Uniform Mitigation Assessment Methodology (UMAM) adopted by DEP and binding on local governments.

#### **Policy CS.02.12**

The policies of the Conservation Element shall not be construed to prevent timbering operations so long as timbering operations utilize Best Management Practices specified in the most recent Silviculture Best Practices Handbook published by the Florida Department of Agriculture and Consumer Services, Division of Forestry to minimize the effects on the wetlands.

#### **Policy CS.02.13**

Stormwater management systems, including rerouting and maintenance of drainage ditches and control of development in areas of sheetflow, shall be used where appropriate, to enhance the hydrologic conditions of stressed or impacted wetlands.

**Policy CS.02.14**

All construction in floodplains and floodways shall be required to comply with FEMA, Federal Insurance Administration, and County building codes.

**Policy CS.02.15**

Silviculture activities shall be encouraged to follow the best management practices outlined in the most recent Silviculture Best Management Practices Handbook published by the Florida Department of Agriculture and Consumer Services, Division of Forestry.

**Policy CS.02.16**

Waterfront developments shall be designed to ensure that stormwater runoff and erosion do not affect ambient water quality of adjacent waters in accordance with Chapters 381 and 62-600, F.A.C.

### **OBJECTIVE CS.03**

**The County shall seek to preserve and expand its “green infrastructure” by creating and protecting a network of waterways, wetlands, woodlands, wildlife habitats, greenways, and other natural areas which sustain clean air, water, and natural resources: provide for a sustainable economy; provide recreational opportunities and enrich the quality of life for County residents and visitors.**

#### **Policy CS.03.01**

The County should actively seek to acquire and/or manage natural lands for its green infrastructure that can provide the strategic connection of ecosystem components that are crucial for maintaining the values and services of natural systems. This may be achieved through purchase, donation, conservation easement, clustering of development rights on the least sensitive areas of a site, public/private partnerships, development agreements or development orders.

#### **Policy CS.03.02**

The County should consider the establishment of a land acquisition fund for the public acquisition of important areas of green infrastructure.

#### **Policy CS.03.03**

In order to avoid habitat fragmentation, roads crossings within areas designated Conservation (CSV I and II) on the Future Land Use Map (FLUM) will be minimized and incorporate fences and other features to direct wildlife to safe crossings.

#### **Policy CS.03.04**

Incentives shall be included in the Land Development Code (LDC) for the sale, donation, or granting of conservation easements on suitable sites that will contribute to the County’s green infrastructure. These incentives shall give priority to sites that may provide strategic connections of ecosystem components, including links between nature reserves, parks, cultural and historic sites, natural wetlands, beaches and other water bodies. Non-linking sites may be considered to help preserve natural floodplains, wetlands, and native habitat or wildlife movement routes.

**OBJECTIVE CS.04**

**The County shall protect the water resources of the County from contamination by industrial wastewater disposal and sewage effluent disposal systems.**

**Policy CS.04.01**

New septic tank systems must be permitted prior to the issuance of a building permit and inspected and approved by the County Health Department prior to issuance of a certificate of occupancy for any structure.

**Policy CS.04.02**

The Land Development Code (LDC) shall continue to maintain a minimum 100- foot horizontal setback for septic systems from the St. Marys River.

## **OBJECTIVE CS.05**

**Throughout the planning period, water quality relating to the impacts of point and non-point pollution sources to surface waters within the County will be maintained or improved.**

### **Policy CS.05.01**

The Land Development Code (LDC) shall contain provisions to ensure adequate retention/detention of stormwater runoff to maintain surface water quality, to ensure percolation and reduce adverse impacts to drainage canals, surface water, and groundwater. *National Pollutant Discharge Elimination System* (NPDES) baseline and target criteria shall be incorporated as applicable.

### **Policy CS.05.02**

The County shall monitor its closed landfills in compliance with standards established by federal, state, and local laws, regulations, and guidelines.

## **OBJECTIVE CS.06**

**The County shall conserve, appropriately use and protect fisheries, wildlife, wildlife habitat, marine habitat, and native plant communities in a healthy environment and for the enjoyment of future generations.**

### **Policy CS.06.01**

The County shall seek to acquire management agreements for flatwoods and forests of the St. Mary's River Basin that would favor the continued management of the timber resources on a sustainable, long term basis, applying Best Management Practices as described in the most recent Florida Division of Forestry publication: Silviculture Best Management Practices Handbook.

### **Policy CS.06.02**

The County shall request that the Florida Division of Forestry, the Florida Fish and Wildlife Conservation Commission, the U.S. Fish and Wildlife Service, the St. Johns River Water Management District, and other appropriate agencies work together with landowners to ensure proper management of endangered and threatened species of plants, fish, wildlife, and their habitat in which they are located. These agencies shall also be requested to assist in development of the County's land development regulations and future ordinances for protection of these resources. The County will participate in the implementation of land development regulations and incentives/disincentives necessary to protect endangered and threatened species and the habitat in which they are located, such as establishing a beach lighting ordinance, the use of greenways and other natural buffers, and reduced densities or intensities of uses adjacent to preserved habitat in order to conserve wildlife populations and habitat.

### **Policy CS.06.03**

The County shall include provisions in the Land Development Code that encourage the use of drought tolerant and native vegetation in landscape design for future developments.

### **Policy CS.06.04**

The County shall coordinate with appropriate agencies to prohibit or limit marinas and prohibit discharges under applicable law in legislatively designated Outstanding Florida Waters, Class II Waters, Wild and Scenic Rivers, and other sensitive areas designated for protection.

### **Policy CS.06.05**

Marinas and ports proposed for siting adjacent to Department of Environmental Protection (DEP) designated manatee sanctuaries, foraging areas, or in or adjacent to freshwater or warm water discharge habitat areas must receive DEP approval prior to requesting County permits for construction.

**Policy CS.06.06**

The County's Land Development Code (LDC) shall contain provisions to require that developments proposed adjacent to, aquatic preserves, wildlife sanctuaries, wildlife refuges, wildlife management areas, state or national preserves, state forests, or publicly owned parks or gardens in the County shall be environmentally compatible in order to conserve wildlife populations and habitat through the use of buffers, lower densities and intensities of use, adjacent to boundaries, etc.

**Policy CS.06.07**

The County shall cooperate and seek partnerships with its adjacent jurisdictions, Federal and State agencies, non-profit organizations and private landowners to retain the significant habitats for native wildlife and vegetation. If on-site habitat of threatened or endangered species should be disturbed by new development, similar habitat should be protected, through land bank mitigation, with an emphasis on viability by virtue of its size, configuration, and connecting habitat.

**Policy CS.06.08**

The County shall seek an active role in the management of lands owned by the State of Florida, the St. Johns River Water Management District, and other public agencies to ensure the maximum enjoyment and benefit to County residents from the use and management of these lands.

**OBJECTIVE CS.07**

**The County will ensure that air quality shall be maintained or improved throughout the County, by meeting or exceeding those minimum standards established by state and federal agencies.**

**Policy CS.07.01**

All commercial and industrial uses located in the County shall be required to meet or exceed the air quality standards established by state and federal agencies.

**Policy CS.07.02**

To minimize the impact of vehicular traffic on air quality methods should be investigated to reduce vehicle traffic by including bikeways, pedestrian ways, public transportation, and other means into the County's transportation system where applicable.

## **OBJECTIVE CS.08**

**The County shall promote water and energy conservation strategies to support the protection of the County's natural resources**

### **Policy CS.08.01**

The County shall encourage energy-efficient land use patterns within the Urban Development Area and Rural Transitioning Areas as shown on the Development and Preservation Framework found in the background data and analysis for this Plan, promoting a compact mixture of residential and non-residential uses in order to conserve energy and reduce greenhouse gas emissions.

### **Policy CS.08.02**

The County shall encourage energy efficiency in the design and construction of new housing, and shall consider integration of the United States Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Green Building Rating System or another nationally recognized green building rating system into the Land Development Code to promote sustainable site development, water savings, and energy efficiency.

### **Policy CS.08.03**

The County shall consider a requirement that buildings financed by, constructed by, or substantially renovated by the County be designed or retrofitted to meet the United States Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) rating system, or another nationally recognized green building rating system.

### **Policy CS.08.04**

The County shall, through the Land Development Code, promote the use of renewable energy resources by allowing appropriate placement of structures for the generation of wind and solar energy to be permitted in residential areas.

### **Policy CS.08.05**

The County shall adopt provisions in the Land Development Code to promote the use of Florida Friendly Landscaping techniques and native or adapted plants in order to reduce potable water consumption for irrigation for new development.

### **Policy CS.08.06**

The County shall promote the use of Low Impact Development (LID) techniques approved by the St. Johns River Water Management District within new subdivisions in order to protect the water resources of the County, preserve open space, minimize land disturbance and link green infrastructure components.

**Policy CS.08.07**

The County shall promote the use of Energy Star or equivalent high-efficiency appliances and fixtures to reduce energy use in public and private buildings.

**Policy CS.08.08**

The County shall continue to promote those land uses that sequester carbon emissions, such as agriculture and timber production, therefore improving the air quality of the County.

**OBJECTIVE CS.09**

**The County will ensure that soil and water resources for agriculture and silviculture will be conserved and managed.**

**Policy CS.09.01**

The County will support and work with the Nassau County Soil and Water Conservation District (SWCD) office to develop methods and educate the agricultural community about soil conservation and erosion control practices.

**Policy CS.09.02**

The County shall coordinate with the Nassau County Soil and Water Conservation District (SWCD), the Florida Dept. of Agriculture and Consumer Services (DACS), and the County Extension Agent to explore programs that will protect the integrity of agricultural land and strengthen the County's agricultural base.

## **OBJECTIVE CS.10**

**The County shall conserve, appropriately use and protect mineral deposits of economic value.**

### **Policy CS.10.01**

Impacts from mining operations within the County's wetlands shall be minimized, through avoidance of disruption of occupied endangered or threatened species habitat or through requiring restoration of similar habitat when mining is approved in forested wetland. Mining operations and restoration of mined areas must meet the standards of Rule 62C-16.0051 F.A.C. For mining in wetlands, these standards include Rule 62C-16.0051 (5), (6), (7), (9) and (10) F.A.C. Any mining approval by the County will be subject to approval from environmental permitting agencies and local government.

### **Policy CS.10.02**

The County shall prohibit any mining operations which would negatively impact the quality and quantity of groundwater supplies of existing users.

### **Policy CS.10.03**

Mining operations shall be permitted only in the Industrial land use category.

## **OBJECTIVE CS.11**

**The County shall take appropriate measures to safeguard its residents and natural resources from dangers of hazardous materials.**

### **Policy CS.11.01**

Commercial and industrial establishments which use, treat, store, generate or transport toxic or hazardous substances shall submit annual reports, as required by state and federal regulations, which identify the materials and how these materials will be handled and disposed.

## **OBJECTIVE CS.12**

**The County will coordinate with the Department of State, Division of Historical Resources to protect historic and archaeological resources within the County.**

### **Policy CS.12.01**

The County shall maintain an inventory of historic resources within the County based on information obtained from the Florida Master Site File maintained by the Florida Dept. of State.

### **Policy CS.12.02**

The County shall protect and preserve known significant archaeological and historic resources by pursuing state funds for the purchase of specific sites in eminent danger of destruction by the encroachment of development.

### **Policy CS.12.03**

The County shall provide incentives in the Land Development Code to encourage the preservation and sensitive redevelopment of historic areas.

# Nassau County 2030 Comprehensive Plan

## **Regional Coordination Element (RC)**

### **Goals, Objectives and Policies**

#### **Goal**

**Establish effective relationships among the various governmental and non-governmental organizations in the Northeast Florida region to preserve and enhance the quality of life and ensure the efficient use of available resources.**

#### **OBJECTIVE RC.01**

The County shall implement new regional coordination mechanisms and/or continue existing agreements with all adjacent local, regional, state, and federal government agencies, the County School Board and public facility providers that share responsibility for land use development and urban development patterns.

##### **Policy RC.01.01**

The County shall maintain a copy of the Comprehensive Plan on the County's web site and distribute a copy to all adjacent local governments, or upon request.

##### **Policy RC.01.02**

The County shall implement a formal process for intergovernmental coordination with the county's municipalities via a memorandum or letter of agreement, which establishes specific coordination activities to occur between the County and each municipality on a regular basis.

##### **Policy RC.01.03**

The County shall, in conjunction with its municipalities, consider the establishment of joint municipal planning areas through interlocal agreements as provided under the authority of Sec. 163.3177 Florida Statutes. When considering boundaries for joint municipal planning areas, the County and the municipalities should consider previously established planning area boundaries, municipal and county infrastructure service areas, existing and planned jurisdiction lines, and local comprehensive plans.

##### **Policy RC.01.04**

The County shall continue its formal relationships with state and federal agencies that have development permitting responsibilities in Nassau County.

**Policy RC.01.05**

The County will coordinate long-range transportation planning with its municipalities, the North Florida Transportation Planning Organization, the Florida Department of Transportation, the Jacksonville Transportation Authority and other transportation providers. This shall include review of routes and appropriate land uses for potential public transit corridors, and coordination with municipalities within The County and adjacent counties to develop strategies which promote mass transit services for outlying areas.

**Policy RC.01.06**

The County shall coordinate with the appropriate governmental and non-governmental agencies and organizations to provide consistent and coordinated management of bays, estuaries and harbors that fall under the jurisdiction of more than one local government. Policies addressing specific coordination efforts shall be included in the Coastal Management Element.

**Policy RC.01.07**

The County shall continue to coordinate with appropriate agencies to prohibit or limit marinas and prohibit discharges under applicable law in Outstanding Florida Waters, Class II Waters, Wild and Scenic Rivers, and other sensitive areas designated for protection.

**Policy RC.01.08**

The County shall facilitate and encourage partnerships and strategies with municipalities, state and federal agencies and non-governmental organizations to address affordable housing needs on a County-wide basis, building upon the established State Housing Initiatives Partnership Program implemented through the County's Local Housing Assistance Plan. Strategies shall focus on methods to promote distribution of affordable housing opportunities throughout the County and ensure availability of a mix of housing types, including lower cost housing, with accessibility to employment and services.

**Policy RC.01.09**

The County shall recognize campus master plans prepared pursuant to Sec. 1013.30, Florida Statutes.

**Policy RC.01.10**

The County shall recognize airport master plans for public-use airports prepared pursuant to Sec. 333.06 Florida Statutes and shall, in conjunction with its municipalities, consider the establishment of interlocal agreements to adopt, administer, and enforce airport protection zoning regulations for areas in adjacent jurisdictions upon which an obstruction may be constructed or altered which underlies any surface of the airport as provided in 14 C.F.R. part 77, subpart C.

**Policy RC.01.11**

The County should seek to develop experimental projects to promote green development practices and low impact development standards to mitigate The County's development impact on regional resources.

**Policy RC.01.12**

The Joint Local Planning Agency for Amelia Island should continue its service to provide the coordination needed to ensure that the comprehensive plan for the City of Fernandina Beach is coordinated with the County's plans for the unincorporated areas of Amelia Island.

**Policy RC.01.13**

The County will participate in the development of updates to the St. Johns River Water Management District (SJRWMD) Regional Water Supply Plan and other water supply development-related initiatives facilitated by the SJRWMD that affect the County.

**Policy RC.01.14**

The County shall monitor and participate, as necessary, in its water suppliers' water supply planning processes to ensure they appropriately account for and meet the water needs of the respective unincorporated area within their service area.

## **OBJECTIVE RC.02**

**Coordinate with relevant state or regional agencies, local governments, or other responsible entities to establish level of service (LOS) standards throughout the County.**

### **Policy RC.02.01**

The County shall coordinate with the following entities to establish level of service (LOS) standards for roadways the indicated facilities:

- A) The Florida Department of Transportation for State roads in the unincorporated area and inter-jurisdictional segments,
- B) The North Florida Transportation Planning Organization for County roads in urbanized or transitional areas,
- C) Municipalities in The County for County roads in the municipality, and inter-jurisdictional segments,
- D) Adjacent counties for inter-county roads.

### **Policy RC.02.02**

The County shall coordinate with local governments and other entities that supply potable water and sanitary sewer services to the unincorporated area to implement level of service (LOS) standards and concurrency management systems, as provided for in the policies of the Public Facilities Element.

### **Policy RC.02.03**

Public and private central sewage treatment systems and package systems shall maintain full compliance with applicable state regulations and permit conditions. Where noncompliance with applicable law continues, the County will seek enforcement in conjunction with state agencies to alleviate adverse environmental impacts.

### **Policy RC.02.04**

The County shall enter into and maintain formal agreements with County municipalities and other service providers to establish sanitary sewer and potable water extension policies to provide these services where needed and economically feasible.

### **Policy RC.02.05**

The County shall continue to coordinate with its municipalities and surrounding jurisdictions to provide for sufficient disposal capacity to meet adopted level of service standards and secure agreements for procurement of long term disposal capacity in a regional landfill.

**Policy RC.02.06**

The County shall coordinate with non-governmental organizations, the School Board, municipalities in the County, and state and federal agencies on the implementation of a County-wide system of parks, recreation facilities and open space as provided for in the Recreation and Open Space Element.

### **OBJECTIVE RC.03**

**The County shall ensure that the impacts of proposed development in this Plan is addressed and reviewed for compliance with plans of adjacent local governments, and regional and state plans.**

#### **Policy RC.03.01**

The County, through the Planning Director, shall review the adopted County Plan and subsequent amendments to ensure that proposed development is consistent with plans of adjacent local governments, the Strategic Regional Policy Plan and the State Comprehensive Plan. The Planning Director shall regularly report to the County Commission and the Local Planning Agency on the status of adjacent local and regional governments' plans .

#### **Policy RC.03.02**

The County shall abide by the mandatory dispute resolution process, established by rule by the the Northeast Florida Regional Council in accordance with Sec. 186.509, F.S., to reconcile differences on planning and growth management issues between units of local government.

#### **Policy RC.03.03**

The County shall coordinate with each municipality's annexation activities in accordance with the requirements of Ch. 171, F.S..

#### **Policy RC.03.04**

Nassau County will consider entering into inter-local service boundary agreements as an alternative to identify effective service areas and responsibilities in lieu of County review of individual notice of annexation filed pursuant to Sec. 171.042, Florida Statutes.

#### **Policy RC.03.05**

The County shall coordinate with FDOT to address right-of-way and access issues on state roadways.

## **OBJECTIVE RC.04**

**Nassau County shall cooperate with the School District and the municipalities of Fernandina Beach, Callahan and Hilliard to share information and address multi-jurisdictional public school issues in order to assure the coordination of planning and decision-making.**

### **Policy RC.04.01**

The County will implement the Inter-local Agreement for Public School Facility Planning between the County, the municipalities and the School District as required by Section 1013.33, Florida Statutes, including procedures for:

- A) Joint meetings;
- B) Student enrollment and population projections;
- C) Coordinating and sharing of information;
- D) School site analysis;
- E) Supporting infrastructure;
- F) Comprehensive plan amendments, rezonings, and development approvals;
- G) Education Plant Survey and Five-Year District Facilities Work program;
- H) Co-location and shared use;
- I) Implementation of school concurrency, including levels of service standards, concurrency service areas, and proportionate-share mitigation;
- J) Oversight process; and,
- K) Resolution of disputes.

### **Policy RC.04.02**

The County shall maintain a voting representative of the School District, appointed by the School Board, as a member of the Local Planning Agency.

### **Policy RC.04.03**

The County shall coordinate with the School District and the municipalities regarding annual review of school enrollment projections and the annual update and review of the Public School Facilities Element and the Schedule of Capital Improvements.

### **Policy RC.04.04**

The County shall support School District efforts to ensure satisfactory capacity for current and future school enrollment by providing annual data on growth trends.

### **Policy RC.04.05**

In order to coordinate the effective and efficient provision and siting of educational facilities with associated infrastructure and services within the County, the Board of County Commissioners and the School Board shall coordinate educational and facilities planning with residential growth trends in the County, and discuss issues of mutual concern.

**Policy RC.04.06**

The School District shall be notified of all residential development review requests and development proposals, pursuant to the amended Inter-local Agreement for Public School Facility Planning. The School District will be given the opportunity to respond with written comments and to appear before the Planning and Zoning Board and Board of County Commissioners to discuss any comments.

**Policy RC.04.07**

The County shall coordinate with the School District on the planning and siting of new public schools to ensure that school facilities are provided with the necessary services and infrastructure and are compatible and consistent with the Comprehensive Plan.

**Policy RC.04.08**

In coordination with the School District and the municipalities, the County shall establish a process for implementation of school concurrency as specified in the Public Schools Facilities Element.

## **OBJECTIVE RC.05**

**The County shall support and encourage appropriate and effective participation and partnership with non-governmental organizations in meeting the goals, objectives, and policies of the Comprehensive Plan.**

### **Policy RC.05.01**

The County should encourage partnerships with local non-governmental organizations involved in economic development to assist targeted enterprises and developments in negotiating the local, regional and national regulatory infrastructure to improve the competitive position of the County in attracting and retaining the best economic activity.

### **Policy RC.05.02**

The County shall coordinate with economic development organizations to create a coordinated economic development program, including the adoption an economic development element consistent with the provisions of Chapter 163, F.S.

### **Policy RC.05.03**

The county shall maintain partnerships with organizations such as Florida Communities Trust, the Trust for Public Land (TPL), The Nature Conservancy, and other organizations to provide the necessary funds to implement a long-range, financially feasible plan for the identification and acquisition of environmental resources.

### **Policy RC.05.04**

The County shall support and encourage the creation of appropriate public-private partnerships as a model for structuring, funding and operating certain public facilities.

## **OBJECTIVE RC.06**

**The County shall support and encourage the creation of a regional vision for Northeast Florida.**

### **Policy RC.06.01**

The County shall actively support and encourage County residents to participate in efforts undertaken by the Northeast Florida Regional Council and the Northeast Florida Regional Community Institute to develop a regional vision for northeast Florida.

### **Policy RC.06.02**

The County shall cooperate with the Northeast Florida Regional Council, adjacent local governments and other public and/or private agencies to find the most appropriate and feasible strategies for implementing the guiding principles of the regional vision.

### **Policy RC.06.03**

The County shall share information with and provide continued cooperation with the Northeast Florida Regional Community Institute in order to monitor and update the list of regional indicators and benchmarks used to track the long-term implementation of the guiding principles of the regional vision.

### **Policy RC.06.04**

The County will assist the implementation of the Long Range Transportation Plan, Envision 2035, through participation on the North Florida Transportation Planning Organization (TPO), cooperative funding agreements for identified transportation needs and coordination of land use planning and right-of-way corridor protection.

### **Policy RC.06.05**

The County will support implementation of Vision 2032 by encouraging lead partners, working with non-profit organizations and providing technical support.

# Nassau County 2030 Comprehensive Plan

## **Capital Improvements Element (CI)**

### **Goals, Objectives and Policies**

#### **Goal**

**Based on the premise that existing taxpayers should not have to bear the financial burden of growth-related infrastructure needs, Ensure the orderly and efficient provision of infrastructure necessary to serve existing and future population and development in a manner that creates a fiscally sustainable community.**

#### **OBJECTIVE CI.01**

Capital improvements shall be provided to: correct existing deficiencies, accommodate desired future growth and replace worn-out or obsolete facilities as indicated in the Schedule of Capital Improvements.

##### **Policy CI.01.01**

Capital improvements, in the context of the Comprehensive Plan, shall include improvements necessary to achieve and maintain adopted level-of-service (LOS) standards for the transportation system, potable water, sewage, solid waste disposal, stormwater management, and recreation and open space facilities. Capital improvements shall be defined as those improvements which are limited to a one time minimum expenditure of \$50,000 including land, buildings, design and permitting and do not include expenditures for equipment, operations and maintenance costs.

##### **Policy CI.01.02**

The County shall maintain a minimum five (5)-year Schedule of Capital Improvements (SCI) which will include any publicly funded projects of federal, state, or local government, as well as privately funded projects necessary to ensure that any adopted level-of-service standards are achieved and maintained for the 5-year period. Projects must be identified as either funded or unfunded and given a level of priority for funding.

##### **Policy CI.01.03**

The Schedule of Capital Improvements shall include all projects identified as necessary to achieve and maintain adopted level-of-service standards within Nassau County including, but not limited to, projects identified in the following:

- A) The County's Capital Improvement Plan(CIP)
- B) The FDOT District 2 Five-Year Work Program
- C) The Nassau County School District Five-Year Facilities Work Program
- D) The JEA Annual Water Resource Master Plan
- E) Projects identified as part of a Proportionate Fair Share or Development Agreement.

**Policy CI.01.04**

The County shall review and monitor outstanding development orders and agreements to ensure that public facility obligations are being met and appropriately incorporated into the five (5)-year Schedule of Capital Improvements.

**Policy CI.01.05**

The County shall review all proposed new capital facilities against the criteria contained in the various Comprehensive Plan Elements to ensure that the proposed facilities are in conformance with the planned goals and objectives.

**Policy CI.01.06**

The County shall consider creation of an expanded 10 to 15 year Schedule of Capital Improvements in the Comprehensive Plan for the purpose of projecting future infrastructure needs, estimating future costs and revenue, guiding future growth to appropriate areas, and use as a criterion for review of FLUM amendments.

**OBJECTIVE CI.02**

The County shall adopt Level of Service (LOS) standards against which the adequacy and deficiencies of facilities may be measured.

**Policy CI.02.01**

Nassau County adopts the Level of Service (LOS) standards for public facilities and services as shown below. The County may not issue a development order or permit that results in a reduction in the level of service (LOS) for the affected public facilities below the minimum level of services established in this plan. Public facilities and services must meet or exceed the level of service standards established in this plan and must be available when needed for the development as specified in this plan.

**A) Transportation**

Road Classification	Minimum LOS		
	Rural	Transitioning to Urban	Urbanized
<b>Limited Access (Freeways)</b>			
4-lane	D	D	D
6-lane	D	D	D
8-lane	D	D	D
<b>Principal Arterials</b>			
2-lane	D	D	D
4-lane	D	D	D
6-lane	D	D	D
<b>Minor Arterials</b>			
2-lane	D	D	D
4-lane	D	D	D
6-lane	D	D	D
<b>Collectors</b>			
Major	D	D	D
Minor	D	D	D

**Notes:**

1. Level of service letter designations are defined in the FDOT 2013 Quality/Level of Service Handbook.
2. It is recognized that certain roadways (i.e., constrained roadways) will not be expanded by the addition of through lanes

**B) Public School Facilities**

1. LOS for Elementary Schools: 95% of permanent FISH capacity
2. LOS for Middle and High Schools: 100% of permanent FISH capacity

3. LOS for Combination Schools (Grades K-8 or 6-12, for example): 100% of permanent FISH capacity

C) Recreation and Open Space

Type	Service Radius	Minimum Size	Area /1000 Residents	Other Requirements
Community Parks	1- 5 miles	10 Acres	3.35 Acres	
Regional Parks-General	County -wide	30 Acres	10 Acres	
Regional Parks- Beach Access	County -wide	Variable	.25 Acre	At .5 mile linear increments with adequate space for parking
Regional Parks- Boat Facility	County -wide	Variable	.40 Acre	1 ramp lane per 5,000 population

D) Potable Water

Provider	LOS
JEA	100.0 gpd per capita
Nassau Amelia Utilities	81.0 gpd per capita

E) Sanitary Sewer

Provider	LOS	pk
JEA	85 gpd per capita	1.2
Nassau Amelia Utilities	76.8 gpd per capita	1.2

## F) Solid Waste Disposal

Measure	LOS
Lbs. per capita/day	4.91 lbs.
Tons per capita/year	.90 ton
Fill Rate per capita/year (cubic yards)	1.4 cy

## G) Stormwater Management

1. Projects which discharge or contribute runoff to downstream areas which are not volume sensitive and have adequate capacity to accept and convey stormwater runoff from the project site without increasing flood levels shall limit peak rates of discharge for developed conditions to pre-developed or existing conditions for the 5-year, 10-year, and 25-year design storm event.
2. Projects which discharge or contribute runoff to downstream areas which are volume sensitive and/or do not have adequate capacity to accept and convey stormwater runoff from the project site without increasing flood levels shall provide detention of the 25-year discharge volume for developed conditions such that the volume released from the project during the critical time period is no greater than the volume released under pre-developed or existing conditions during the same time period. For the purposes of this requirement the critical time period shall be the storm duration based on the 24-hour duration rainfall event unless a detailed hydrologic study of the contributing watershed demonstrates otherwise.
3. All projects shall meet state water quality discharge standards as regulated by the St. Johns River Water Management District pursuant to Rule 40C-42 F.A.C., and must submit of a copy of a valid St. Johns River Water Management District permit as part of the development review process.

**Policy CI.02.02**

The County shall continually review the established level of service (LOS) standards on the basis of consistency with the Schedule of Capital Improvements, local comprehensive planning activities, cost feasibility and effectiveness, relative magnitude and term of need, the ability to use other jurisdictional capital improvements through interlocal agreements, and overall budget impacts.

**Policy CI.02.03**

The applicable Mobility Fees for new development must be paid in accordance with the County's adopted Mobility Fee ordinance prior to a development order or permit being issued for the project.

**Policy CI.02.04**

The land, or equivalent funds, for parks and recreation facilities required to maintain LOS for new development must be dedicated to, or acquired by, the County prior to the issuance of a residential certificate of occupancy.

**Policy CI.02.05**

Potable water, sewer, solid waste and stormwater management facilities required to maintain LOS for new development must be in place and available for use prior to the issuance of certificates of occupancy.

### **OBJECTIVE CI.03**

**The County shall establish a system for prioritizing the scheduling of County-funded capital improvements to mitigate existing or projected deficiencies and to accommodate new growth at the adopted LOS.**

#### **Policy CI.03.01**

The County shall, in accordance with its adopted Financial Policies, evaluate and prioritize its capital improvement projects based upon the following criteria:

- A) Preservation of the health and safety of the public
- B) Compliance with all mandates and prior commitments
- C) Elimination of existing deficiencies
- D) Maintenance of adopted level of service standards
- E) Protection of existing capital investments
- F) Consistency with the Comprehensive Plan and plans of other agencies
- G) Eligibility for grants
- H) A demonstrated relationship between projected growth and capital project
- I) Impact on operating costs
- J) Utilization of economies of scale and timing of other projects
- K) Adjustment for unseen opportunities, situations, and disasters
- L) Funding sources

#### **Policy CI.03.02**

Nassau County shall continually review its established capital improvement prioritizing criteria on the basis of: the maintenance of LOS standards, County comprehensive planning activities, cost feasibility and effectiveness, relative magnitude and term of need, intergovernmental agreements to use other jurisdictional capital improvements and overall budget impacts.

#### **OBJECTIVE CI.04**

**The County shall continue to limit the expenditure of public funds in Coastal High Hazard Areas (CHHA) as defined in the Florida Statutes.**

##### **Policy CI.04.01**

The County shall, where feasible, limit public expenditures that subsidize development within the Coastal High Hazard Area (CHHA), as defined, to those which are deemed necessary to:

- A) maintain existing level-of-service standards;
- B) maintain the health, safety and welfare of the residents of these areas, and;
- C) facilitate public access to natural open space and recreation areas.

## **OBJECTIVE CI.05**

The County shall continue to coordinate development or redevelopment proposal approvals consistent with existing services availability, or time development impacts to be concurrent with the programmed provision of required infrastructure in the Schedule of Capital Improvements so as to maintain the adopted Level of Service.

### **Policy CI.05.01**

The County shall utilize existing and improved development permitting procedures to review development proposals for compliance with the County's adopted LOS, and where appropriate, the time frame for implementation of additional facility improvements shall be determined.

### **Policy CI.05.02**

To the extent practicable, the County shall channel development into area where services are, or will be made, available at the adopted LOS.

### **Policy CI.05.03**

County approval of proposed development or redevelopment projects shall be based on the condition that project related infrastructure is, or will be available at the adopted level of service standards.

### **Policy CI.05.04**

Land use decisions and timing shall be reviewed against existing and future facilities as proposed in the adopted Schedule of Capital Improvements for maintenance of the adopted Level of Service.

## **OBJECTIVE CI.06**

**The County shall continue to enforce the Land Development Code to ensure that new development pays its share of costs necessary to maintain the level of service standards adopted herein.**

### **Policy CI.06.01**

The County shall require the construction and/or posting of financial surety of project related infrastructure improvements necessary to accommodate the development of vacant parcels or substantial redevelopment of existing properties.

### **Policy CI.06.02**

Credit for shall be granted against required mobility fees for the construction of off-site road improvements and/or dedications of right-of-way to mitigate the transportation impacts of new development.

### **Policy CI.06.03**

Nassau County may collect impact fees for transportation(i.e. mobility fees), parks and recreation, fire-rescue, law enforcement and administrative capital facilities. The amount of the impact fee cannot exceed the cost per unit of demand needed to accommodate new development at the adopted LOS standard less the value of future non-impact fee revenues that will also be used to pay for the needed capital facility expansion.

### **Policy CI.06.04**

Cooperate with the Nassau County School Board to collect education impact fees for the capital improvements to public school facilities necessary to serve new residential developments.

## **OBJECTIVE CI.07**

**The County shall identify dedicated funding sources, non-ad valorem revenue streams, developer contributions, impact fees, grants and other possible fiscal resources to ensure the provision of needed capital improvements**

### **Policy CI.07.01**

The County shall consider project cost projections based on inflation and contingency costs.

### **Policy CI.07.02**

Nassau County's adopted Schedule of Capital Improvements shall incorporate specific funding sources for identified projects.

### **Policy CI.07.03**

The Budget Officer shall prepare annual estimates of available capital funding sources.

### **Policy CI.07.04**

The County shall annually review its Schedule of Capital Improvements in accordance with Sec. 163.3177, F.S. and the goals, objectives and policies of this Comprehensive Plan.

## **OBJECTIVE CI.08**

**The County shall continue to coordinate with the Florida Department of Transportation and the North Florida Transportation Planning Organization to advocate the inclusion and funding of certain long-range transportation improvements which are necessary to support development and maintain level of service standards within Nassau County.**

### **Policy CI.08.01**

The transportation improvements identified in the ENCPA Sector Plan Mobility Network and its adopted Detailed Specific Area Plans (DSAPs) shall be included as long term (unfunded) needs on the Future Transportation Map Series (Map FTMS-5) and shall be considered by the County when it reviews and updates the County's adopted Mobility Plan and the Schedule of Capital Improvements.

### **Policy CI.08.02**

The County will participate with the North Florida TPO in the update of the TPO's Long Range Transportation Plan and the Transportation Improvement Program (TIP).

### **Policy CI.08.03**

The County will coordinate the updating of the Schedule of Capital Improvements with the North Florida TPO's Transportation Improvement Program, FDOT's Five-Year Work Program, the ENCPA Sector Plan Mobility Network and the County's adopted Future Transportation Map Series (FTMS) and Mobility Plan.

## **OBJECTIVE CI.09**

**The County shall manage the timing of residential growth to ensure adequate school capacity is available consistent with adopted level of service standards for public school concurrency.**

### **Policy CI.09.01**

The uniform, district-wide level-of service standards for public school facilities shall be based upon the Florida Inventory of School Houses (FISH) maintained by the Department of Education (DOE). These standards shall be consistent with the Inter-local Agreement agreed upon by the School District, and the local governments within Nassau County.

### **Policy CI.09.02**

The County hereby incorporates by reference the Nassau County School District's Five-Year Facilities Work Program for fiscal years 2015-2016 through 2019-2020 adopted September 14, 2015, that includes improvements to school capacity sufficient to meet anticipated student demands projected by the County and its municipalities, in consultation with the School Board's projections of student enrollment, and based on the adopted level of service standards for public schools.

### **Policy CI.09.03**

The County, in coordination with the School Board, shall annually update the Capital Improvements Element by adopting an ordinance that incorporates by reference the School District's Five-Year Facilities Work Program to ensure that level of service standards will continue to be achieved and maintained during the five-year planning period.

### **Policy CI.09.04**

The County shall ensure that future development pays a proportionate share of the capital costs of public school facilities needed to accommodate new development and maintain adopted level of service standards .

### **Policy CI.09.05**

The County shall include public school facilities as part of the development approval process by conditioning development orders upon the availability of public school facilities at the adopted Level of Service.

Nassau County 2030 Comprehensive Plan  
**Public Facilities Element (WAT) (SEW) (SOL) (STM)**  
**Goals, Objectives and Policies**

**Potable Water Sub-Element (WAT)**

**Goal**

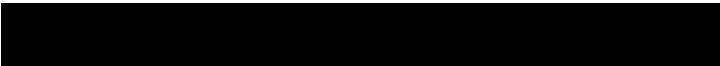
**Provide public potable water supply facilities in a manner, which ensures the health, welfare and safety of the residents of Nassau County; promotes compact, efficient development; reduces urban sprawl; protects and conserves natural resources; and satisfies the requirements of sound fiscal planning.**

**OBJECTIVE WAT.01**

The County shall ensure that adequate potable water facility capacity will be in place to serve new development in accordance with the adopted level of service prior to the issuance of a certificate of occupancy or its functional equivalent.

**Policy WAT.01.01**

The following level of service (LOS) standards are hereby adopted for regional potable water supply systems serving the unincorporated areas of the County, and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development planning to use such systems.

	
JEA	100.0 gpd per capita
Nassau Amelia Utilities	81.0 gpd per capita

**Policy WAT.01.02**

Fire hydrants will be installed in all subdivisions where an existing public water supply can be extended within dedicated or proposed right-of-way that is within one-quarter (1/4) mile of said proposed development. The developer will extend the water supply and provide the fire hydrants as required by the County Fire-Rescue Department.

**Policy WAT.01.03**

Developments in unincorporated areas of the County which plan to use a municipal potable water supply system shall use the level of service (LOS) standards set by the municipality in its comprehensive plan as the basis for determining the availability of facility capacity and the demand generated by the development.

**Policy WAT.01.04**

All improvements, replacements, expansion or increase in capacity of facilities shall be compatible with the adopted level of service standards for the facilities and the distribution of these facilities shall be consistent with the Future Land Use Map.

**Policy WAT.01.05**

New or expansion service areas for publicly owned or investor-owned utilities shall be consistent with the Future Land Use Map. The boundaries of the utility service areas shall not be gerrymandered in such a way that enclaves are created that will lack service.

**Policy WAT.01.06**

The Growth Management Department shall determine where the potential exists for Nassau County to improve public facilities through coordinating County efforts with adjacent county/municipality system planning and recommend to the County Commission intergovernmental agreements that will promote improved services and thereby discourage urban sprawl.

## **OBJECTIVE WAT.02**

**The County shall correct deficiencies in potable water systems for which it is responsible.**

### **Policy WAT.02.01**

A Schedule of Capital Improvements (SCI) for public facilities, including potable water systems, will be maintained as part of the Capital Improvements Element of this plan. The County shall evaluate and prioritize capital improvement projects based upon the following criteria:

- A) Preservation of the health and safety of the public
- B) Compliance with all mandates and prior commitments
- C) Elimination of existing deficiencies
- D) Maintenance of adopted level of service standards
- E) Protection of existing capital investments
- F) Consistency with the Comprehensive Plan and plans of other agencies
- G) Eligibility for grants
- H) A demonstrated relationship between projected growth and capital project
- I) Impact on operating costs
- J) Utilization of economies of scale and timing of other projects
- K) Adjustment for unseen opportunities, situations, and disasters
- L) Funding sources

### **OBJECTIVE WAT.03**

**The County shall regulate land use and discourage urban sprawl by adopting land development regulations that maximize use of current and planned infrastructure facilities.**

#### **Policy WAT.03.01**

In order to promote more efficient development patterns, the County shall incorporate provisions into the Land Development Code (LDC) to encourage more compact, higher density and/or intensity development in the designated Urban Development Area (UDA) or in transitioning areas that are either currently served by central water systems or are planned to be served within 4-10 years.

#### **Policy WAT.03.02**

In order to lower the cost of regional water system infrastructure, the County shall incorporate provisions into the Land Development Code (LDC) to require minimum densities for residential development in the designated Urban Development Area (UDA) or in transitioning areas.

#### **Policy WAT.03.03**

Small community and non-community ("package") water systems shall be encouraged in clustered rural hamlets and rural employment centers. All new systems shall be compatible with the design standards of the nearest regional provider most likely to acquire the facility.

#### **Policy WAT.03.04**

The County shall incorporate provisions into the Land Development Code (LDC) to allow the County to establish and collect contributions in aid to construction for the benefit of developers who construct regional potable water treatment and distribution capacity to the standards of the franchised provider.

#### **Policy WAT.03.05**

Provisions shall be incorporated in the Land Development Code (LDC) to allow developer agreements for the timing of installation and connection to a regional potable water system. Such agreements may allow temporary use of on-site water or sewer systems at densities or intensities appropriate for the use of such systems until connection to a regional system is achieved. Temporary on-site systems must be approved by the County Department of Health and/or Department of Environmental Protection for proper operation in the specific location and meet design standards for the provider in whose service area the system is located.

#### **OBJECTIVE WAT.04**

**The County shall reduce the need for water system expansion and protect water resources by promoting water conservation to reduce per capita demand.**

##### **Policy WAT.04.01**

Nassau Amelia Utilities and/or other County-operated water suppliers shall continue to implement their water conservation plans submitted to SJRWMD as part of the consumptive use permitting process. The County shall continue its public information program utilizing materials available from the Water Management District to alert residents of wasteful water usage practices and enhance the responsible and practical use of potable water resources.

##### **Policy WAT.04.02**

Nassau County will seek to reduce potable water consumption by considering regulations in the Land Development Code requiring wastewater reuse for landscape irrigation where available.

##### **Policy WAT.04.03**

The County shall continue to coordinate with its water suppliers regarding implementation of water conservation measures and reuse water systems.

## **OBJECTIVE WAT.05**

**The County shall provide protection to natural groundwater recharge areas commensurate with their significance to natural systems or their status as current or future sources of potable water.**

### **Policy WAT.05.01**

The County shall coordinate with the St. Johns River Water Management District to define the location of significant groundwater recharge areas in the County. These recharge areas will be displayed graphically on a map series within the Comprehensive Plan so that requests for rezoning or land use changes in these areas can be evaluated both in terms of need and potential impact to the aquifer.

### **Policy WAT.05.02**

The County, in coordination with DEP and the St. Johns River Water Management District shall, identify all known point and non-point sources of pollution within the County. All permitted discharge sources shall be required to meet state Water Quality Standards. All discharges under state law not requiring a permit will be required to meet all applicable Best Management Practices.

### **Policy WAT.05.03**

The County shall establish Wellhead Protection Areas consisting of a 500 foot radial setback distance around Public Potable Water Wells to prevent aquifer contamination within the wellhead cone of influence, consistent with Chapter 62-521.400, F.A.C.

- A) For potable water wellfields as defined above, the first 200 feet within the Wellhead protection area will serve as a zone of exclusion. Within the 200-foot zone of exclusion, no activities may occur except existing residential uses, uses functionally related to the water supply system, open space, parks and playgrounds. No parking area; structures, or other impervious surfaces, other than those surfaces that are accessory to residential uses, will be allowed within this zone except for playing court, open-air shelters, and other similar recreation facilities. An exemption shall be allowed for one single family dwelling unit per parcel or lot that was created on or before June 1, 1993.
- B) Within a 500-foot radius around an existing Public Potable Water well, those actions and uses established by the Florida Department of Environmental Protection in Rule 62-521.400, Fla. Admin. Code shall be prohibited.
- C) Within 500-foot radius around an existing Public Potable Water well, the following activities shall also be prohibited:
  - 1. Animal feeding operations;
  - 2. Mines and mining operations;
  - 3. Excavation of waterways or drainage facilities which intersect the water table.

**Policy WAT.05.04**

The County shall continue to work with the SJRWMD to identify and plug abandoned, free flowing wells.

**OBJECTIVE WAT.06**

**The County shall maintain a water supply facilities work plan as required by Florida Statutes.**

**Policy WAT.06.01**

The County shall maintain a Water Supply Facilities Work Plan (Work Plan) that is coordinated with SJRWMD's North Florida Regional Water Supply Plan (NFRWSP). The Work Plan and related comprehensive plan policies will be updated, as necessary, within 18 months of an update of the NFRWSP that affects the County.

**Policy WAT.06.03**

The County's Water Supply Facilities Work Plan (2019-2030) prepared by the Northeast Florida Regional Council (2019) is incorporated into the comprehensive plan and included as Technical Appendix "N".

**Policy WAT.06.04**

The Water Supply Facilities Work Plan shall identify the water conservation and reuse practices, along with the traditional and alternative water supply projects, necessary to meet existing and future water demands.

**Policy WAT.06.05**

The Water Supply Facilities Work Plan will incorporate and identify the projects contained in the North Florida Regional Water Supply Plan and selected by the County for implementation.

## **Sanitary Sewer Sub-Element (SEW)**

### **Goal**

**Provide public sanitary sewer facilities in a manner, which ensures the health, welfare and safety of the residents of Nassau County; promotes compact, efficient development; reduces urban sprawl; protects and conserves natural resources; allows for mixed-use and industrial development; and satisfies the requirements of sound fiscal planning.**

### **OBJECTIVE SEW.01**

The County shall ensure that adequate sanitary sewer facility capacity will be in place to serve new development in accordance with the adopted level of service prior to the issuance of a certificate of occupancy or its functional equivalent.

#### **Policy SEW.01.01**

The following level of service (LOS) standards are hereby adopted for regional wastewater treatment systems serving the unincorporated areas of the County, and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development planning to use such systems.

JEA	100	1.2
Nassau Amelia Utilities	76.8	1.2

#### **Policy SEW.01.02**

Developments in unincorporated areas of the County which plan to use a municipal potable water supply system shall use the level of service (LOS) standards set by the municipality in its comprehensive plan as the basis for determining the availability of facility capacity and the demand generated by the development.

#### **Policy SEW.01.03**

All improvements, replacements, expansion or increase in capacity of facilities shall be compatible with the adopted level of service standards for the facilities and the distribution of these facilities shall be consistent with the Future Land Use Map.

#### **Policy SEW.01.04**

New or expansion service areas for publicly owned or investor-owned utilities shall be consistent with the Future Land Use Map. The boundaries of the utility service areas shall not be gerrymandered in such a way that enclaves are created that will lack service.

**Policy SEW.01.05**

The Growth Management Department shall determine where the potential exists for Nassau County to improve its providing public facilities through coordinating County efforts with adjacent county/municipality system planning and recommend to the County Commission intergovernmental agreements that will promote improved services and thereby discourage urban sprawl.

## **OBJECTIVE SEW.02**

**The County shall correct deficiencies in sanitary sewer systems for which it is responsible.**

### **Policy SEW.02.01**

A Schedule of Capital Improvements (SCI) for public facilities, including sanitary sewer systems, will be maintained as part of the Capital Improvements Element of this plan. The County shall evaluate and prioritize capital improvement projects based upon the following criteria:

- A) Preservation of the health and safety of the public
- B) Compliance with all mandates and prior commitments
- C) Elimination of existing deficiencies
- D) Maintenance of adopted level of service standards
- E) Protection of existing capital investments
- F) Consistency with the Comprehensive Plan and plans of other agencies
- G) Eligibility for grants
- H) A demonstrated relationship between projected growth and capital project
- I) Impact on operating costs
- J) Utilization of economies of scale and timing of other projects
- K) Adjustment for unseen opportunities, situations, and disasters
- L) Funding sources

### **OBJECTIVE SEW.03**

**The County shall regulate land use and discourage urban sprawl by adopting land development regulations that maximize use of current and planned infrastructure facilities.**

#### **Policy SEW.03.01**

In order to promote more efficient development patterns, the County shall incorporate provisions into the Land Development Code (LDC) to encourage more compact, higher density and/or intensity development in the designated Urban Development Area (UDA) or in transitioning areas that are either currently served by central water systems or are planned to be served within 4-10 years.

#### **Policy SEW.03.02**

In order to lower the cost of regional water system infrastructure, the County shall incorporate provisions into the Land Development Code (LDC) to require minimum densities for residential development in the designated Urban Development Area (UDA) or in transitioning areas

#### **Policy SEW.03.03**

Proposed residential subdivisions with more than 50 lots, proposed commercial subdivisions with more than 5 lots, and industrial or manufacturing uses within one-fourth mile of an existing regional sewer system, as measured and accessed via existing easements or rights-of-way, will be required to connect to that system when available pursuant to Sec. 381.0065, F.S.

#### **Policy SEW.03.04**

The Land Development Code shall provide for cluster development and mixed-use development where regional wastewater treatment is, or will be, available concurrent with the impact of development.

#### **Policy SEW.03.05**

Small community and non-community ("package") treatment systems shall be encouraged in clustered rural hamlets, rural employment centers, and in cases where failing septic systems create ground or surface water contamination. All new systems shall be compatible with the design standards of the nearest regional provider most likely to acquire the facility.

#### **Policy SEW.03.06**

The County shall incorporate provisions into the Land Development Code (LDC) to allow the County to establish and collect contributions in aid to construction for the benefit of developers who construct developers who build regional wastewater treatment capacity to the standards of the franchised provider.

**Policy SEW.03.07**

For developments using septic tanks or other on-site wastewater treatment systems, issuance of building permits will be conditioned upon demonstration of compliance with applicable federal, state and local permit requirements for on-site wastewater treatment systems.

**Policy SEW.03.08**

Provisions shall be made in the Land Development Code (LDC) for the inclusion of water and sewer utility easements and rights-of-way in a subdivision plat to assure the eventual construction and utilization of a sewage system in such subdivision (per Sec. 381.272(1) F.S.).

**Policy SEW.03.09**

Provisions shall be made in the Land Development Code (LDC) for waivers to the requirement for mandatory connection to a publicly owned or investor-owned sewage system based on the criteria listed in Chapter 381.272 F.S.

**Policy SEW.03.10**

Provisions shall be incorporated in the Land Development Code (LDC) to allow developer agreements for the timing of installation and connection to a regional wastewater treatment system. Such agreements may allow temporary use of on-site water or sewer systems at densities or intensities appropriate for the use of such systems until connection to a regional system is achieved. Temporary on-site systems must be approved by the County Department of Health and/or Department of Environmental Protection for proper operation in the specific location.

#### **OBJECTIVE SEW.04**

**The County shall protect water resources by promoting water conservation to reduce per capita demand and minimize environmental impacts.**

##### **Policy SEW.04.01**

The County shall require that wastewater be reused where practical. New wastewater treatment plants shall be required to provide for the reuse and/or disposal of wastewater by best available technology, including for agriculture or landscaping irrigation, percolation, or other permitted measures unless data are presented to support claims for inability of the system to support such reuse.

##### **Policy SEW.04.02**

The County will continue to require additional horizontal and/or vertical setbacks to the St. Marys River for all on-site treatment and disposal components.

##### **Policy SEW.04.03**

The County will promote public awareness of the need to periodically maintain septic systems to properly treat the effluent and protect the groundwater supply from contamination.

## **Solid Waste Disposal Sub-Element (SOL)**

### **Goal**

**Manage and dispose of solid waste in a manner, which ensures the health, welfare and safety of the residents of Nassau County; protects and conserves natural resources; and satisfies the requirements of sound fiscal management.**

### **OBJECTIVE SOL.01**

The County shall ensure that adequate solid waste disposal facility capacity will be in place to serve new development in accordance with the adopted level of service prior to the issuance of a certificate of occupancy or its functional equivalent.

### **Policy SOL.01.01**

The following level of service (LOS) standards are hereby adopted for solid waste landfill disposal capacity in the unincorporated areas of the County, and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development.



Lbs. per capita/day	<b>4.91 lbs.</b>
Tons per capita/year	<b>.90 ton</b>
Fill Rate per capita/year (cubic yds.)*	<b>1.4 cy</b>

\*1 cy = 1.55 tons

### **Policy SOL.01.02**

Pursuant to the interlocal agreement with Camden County, Georgia adopted September 15, 2009, Nassau County may use the Camden County Landfill Solid Waste Disposal Facility as its primary disposal method for Class I non-hazardous solid waste in amounts up to 450 tons per day. This agreement is effective for ten (10) years from the date of adoption, with the ability to renew for another five years with the consent of both local governments, or the County may seek another legally permissible approach to solid waste management.

### **Policy SOL.01.03**

Pursuant to an agreement with Waste Management, Inc. adopted October 14, 2009, the County may also dispose of its solid waste at its Chesser Island Road landfill, located in Charlton County, Georgia. This agreement is effective for ten (10) years from the date of adoption, with the ability to renew for another five years with the consent of both parties, or the County may seek another legally permissible approach to solid waste management.

**Policy SOL.01.04**

All improvements, replacements, expansion or increase in capacity of facilities shall be compatible with the adopted level of service standards for the facilities and the distribution of these facilities shall be consistent with the Future Land Use Map.

**Policy SOL.01.05**

The Growth Management Department shall determine where the potential exists for Nassau County to improve its providing public facilities through coordinating County efforts with adjacent county/municipality system planning and recommend to the County Commission intergovernmental agreements that will promote improved services and thereby discourage urban sprawl.

## **OBJECTIVE SOL.02**

**The County shall correct deficiencies in solid waste disposal.**

### **Policy SOL.02.01**

A Schedule of Capital Improvements (SCI) for public facilities, including solid waste disposal systems, will be maintained as part of the Capital Improvements Element of this plan. The County shall evaluate and prioritize capital improvement projects based upon the following criteria:

- A) Preservation of the health and safety of the public
- B) Compliance with all mandates and prior commitments
- C) Elimination of existing deficiencies
- D) Maintenance of adopted level of service standards
- E) Protection of existing capital investments
- F) Consistency with the Comprehensive Plan and plans of other agencies
- G) Eligibility for grants
- H) A demonstrated relationship between projected growth and capital project
- I) Impact on operating costs
- J) Utilization of economies of scale and timing of other projects
- K) Adjustment for unseen opportunities, situations, and disasters
- L) Funding sources

### **OBJECTIVE SOL.03**

**The County will provide for a solid waste collection and disposal system.**

#### **Policy SOL.03.01**

Nassau County will continue collection of solid waste through the services of franchise solid waste collection companies or through the use of other public or private sector resources and encourage effective and efficient operations through bulk transport of collected solid waste to permitted solid waste management facilities.

#### **Policy SOL.03.02**

The County will maintain franchised solid waste collection contracts or other appropriate service agreements which provide for routine scheduled collection of residential and commercial wastes; special collections of bulky items; separate curbside and bulk collection of recyclable materials; separate collection of vegetative yard wastes; and, such other provisions as may be deemed appropriate by the Board of County Commissioners.

#### **Policy SOL.03.03**

Nassau County will continue to evaluate methods to improve the cost effectiveness of solid waste collection operations through its franchised solid waste collection contractors.

#### **OBJECTIVE SOL.04**

**Nassau County will actively promote the recycling of solid waste, the reuse of materials, and the purchase and use of products which contain recycled materials.**

##### **Policy SOL.04.01**

Pursuant to Section 403.706(4)(c), Florida Statutes, the County will provide its residents with the opportunity to recycle by providing:

1. A system of places within the county for collection of source-separated recyclable materials;
2. A system for separating and collecting recyclable materials prior to disposal that located at a local solid waste management facility; and
3. A public education and promotion program that is conducted to inform its residents of the opportunity to recycle, encourages source separation of recyclable materials, and promotes the benefits of reducing, reusing, recycling, and composting materials.

##### **Policy SOL.04.02**

The County shall explore economically responsible ways to provide for continued reduction of municipal solid waste generated within the county through heightened public awareness, local government leadership, development and expansion of recycling markets and increased investments throughout the local government and commercial sectors.

##### **Policy SOL.04.03**

The County should support the creation of state funding programs to help local governments reach higher recycling goals in their jurisdictions.

##### **Policy SOL.04.04**

Nassau County will continue to encourage and support the purchase of products which are reusable and products which contain recycled materials.

## **OBJECTIVE SOL.05**

**Nassau County will conform to all applicable and appropriate Federal and State regulatory requirements for landfill closure and maintenance, minimizing the potential for adverse environmental impacts.**

### **Policy SOL.05.01**

Nassau County will continue to conduct environmental monitoring of closed landfills in accordance with applicable Federal and State requirements, including conditions contained within applicable Florida Department of Environmental Protection (DEP) permits.

### **Policy SOL.05.02**

Nassau County will, in accordance with applicable DEP permit conditions, implement an approved closure plan for the West Nassau Class I Landfill.

### **Policy SOL.05.03**

Nassau County will provide closure maintenance and monitoring of the West Nassau Class I Landfill after facility closure in accordance with applicable Federal and State requirements.

## **Stormwater Management Sub-Element (STM)**

### **Goal**

**Provide public stormwater management facilities in a manner which ensures the health, welfare and safety of the residents of Nassau County; protects and conserves natural resources; and satisfies the requirements of sound fiscal planning.**

### **OBJECTIVE STM.01**

The County shall ensure that adequate stormwater management facility capacity is available or will be available to serve new development in accordance prior to the issuance of a certificate of occupancy or its functional equivalent.

### **Policy STM.01.01**

The level of service (LOS) standards are hereby adopted, and shall be used as the basis for determining the allowable stormwater discharge rate and discharge volume from all non-exempt projects, pursuant to Rule 40C-42, F.A.C:

1. Projects which discharge or contribute runoff to downstream areas which are not volume sensitive and have adequate capacity to accept and convey stormwater runoff from the project site without increasing flood levels shall limit peak rates of discharge for developed conditions to pre-developed or existing conditions for the 5-year, 10-year, and 25-year design storm event.
2. Projects which discharge or contribute runoff to downstream areas which are volume sensitive and/or do not have adequate capacity to accept and convey stormwater runoff from the project site without increasing flood levels shall provide detention of the 25-year discharge volume for developed conditions such that the volume released from the project during the critical time period is no greater than the volume released under pre-developed or existing conditions during the same time period. For the purposes of this requirement the critical time period shall be the storm duration based on the 24-hour duration rainfall event unless a detailed hydrologic study of the contributing watershed demonstrates otherwise.
3. All projects shall meet state water quality discharge standards as regulated by the St. Johns River Water Management District pursuant to Rule 40C-4 F.A.C., and must submit of a copy of a valid St. Johns River Water Management District permit as part of the development review process.

### **Policy STM.01.02**

The adopted LOS standards do not apply to projects considered exempt and not requiring a Water Management District permit pursuant to Rule 40C-42.0225 F.A.C. However, certain design criteria may still be required for exempt projects by the County's Land Development Code (LDC).

**Policy STM.01.03**

All improvements, replacements, expansion or increase in capacity of facilities shall be compatible with the adopted level of service standards for the facilities and the distribution of these facilities shall be consistent with the Future Land Use Map.

**Policy STM.01.04**

New or expansion service areas for publicly owned or investor-owned utilities shall be consistent with the development areas on the Future Land Use Map or Future Land Use Map as amended in accordance with Chapter 163.3187 F.S. The boundaries of the utility service areas shall not be gerrymandered in such a way that enclaves are created that will lack service.

**Policy STM.01.05**

The Growth Management Department shall determine where the potential exists for Nassau County to improve its providing public facilities through coordinating County efforts with adjacent county/municipality system planning and recommend to the County Commission intergovernmental agreements that will promote improved services and thereby discourage urban sprawl.

**Policy STM.01.06**

Nassau County shall encourage wherever possible, stormwater treatment facilities such as retention and detention ponds to be designed within parks subject to the applicable standards for neighborhood parks as provided in the Recreation and Open Space Element. Such ponds shall be designed in keeping with principles of low impact development and shall be integrated into park design with the inclusion of shoreline trails, boardwalks, piers, pedestrian bridges, and similar features.

## **OBJECTIVE STM.02**

**The County shall prioritize the correction of deficiencies in stormwater drainage systems for which it is responsible.**

### **Policy STM.02.01**

A Schedule of Capital Improvements (SCI) for public facilities, including stormwater management systems, will be maintained as part of the Capital Improvements Element of this plan. The County shall evaluate and prioritize capital improvement projects based upon the following criteria:

- A) Preservation of the health and safety of the public
- B) Compliance with all mandates and prior commitments
- C) Elimination of existing deficiencies
- D) Maintenance of adopted level of service standards
- E) Protection of existing capital investments
- F) Consistency with the Comprehensive Plan and plans of other agencies
- G) Eligibility for grants
- H) A demonstrated relationship between projected growth and capital project
- I) Impact on operating costs
- J) Utilization of economies of scale and timing of other projects
- K) Adjustment for unseen opportunities, situations, and disasters
- L) Funding sources

### **Policy STM.02.02**

The County shall initiate a stormwater master plan for the County to identify:

- 1. the volume, rate, and timing of stormwater run off in each planning district;
- 2. areas of recurring drainage problems; and,
- 3. establish a priority for improving drainage throughout the County.

Upon completion and approval of the plan by the Nassau County Board of County Commissioners, the findings of the plan shall be incorporated into the Stormwater Management Ordinance.

### **Policy STM.02.03**

Upon completion of the stormwater master plan the Engineering Services Director shall prepare a priority listing of drainage projects to be completed by the County to correct existing deficiencies. This listing, with associated costs, shall be presented to the Board of County Commissioners for implementation.

**OBJECTIVE STM.03**

**The County shall regulate land use and discourage urban sprawl by adopting land development regulations that maximize use of current and planned infrastructure facilities.**

**Policy STM.03.01**

In order to maximize the use/functions of existing facilities, the County shall ensure stormwater management facilities function properly establish a maintenance and monitoring program of County-controlled drainage ditches throughout County. The County will establish defined levels of maintenance for public stormwater management facilities, and will conduct inspections on a routine basis.

#### **OBJECTIVE STM.04**

**The County shall protect the function of natural drainage features, floodplains and floodways.**

##### **Policy STM.04.01**

Adopted subdivision regulations shall ensure that new streets are designed to direct storm drainage in a manner that such water will be filtered through soils and native vegetation before the runoff enters drainage creeks.

##### **Policy STM.04.02**

New subdivisions or individual parcels must be engineered so that post development runoff for the property is no greater than predevelopment runoff.

##### **Policy STM.04.03**

The County will, through its Land Development Code (LDC), require existing uses undergoing redevelopment to meet the new development requirements for stormwater management.

##### **Policy STM.04.04**

The County shall enforce the County's Floodplain Ordinance to regulate encroachments, including fill, new construction, substantial improvements, and other development, within a FEMA designated "special flood hazard area" that would result in any increase in flood levels during the occurrence of a flood discharge.

##### **Policy STM.04.05**

The County shall include provisions in its Land Development Code (LDC) to encourage the use of Low Impact Development (LID) principles, as defined by the U.S. Environmental Protection Agency (EPA), in new development and re-development. These may include the use of techniques such as bio-retention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavements.

##### **Policy STM.04.06**

In order to participate in the NFIP Community Rating System, The County will undertake those public information and floodplain management activities beyond those required by National Flood Insurance Program (NFIP) minimum standards, resulting in discounted flood insurance premium rates to reflect the reduced flood risk resulting from the community actions.



WATER SUPPLY FACILITIES WORK PLAN | 2025-2040

Nassau County Planning Department