

### Water Supply Facilities Work Plan 2024-2034

City of Jacksonville Planning Department Community Planning Division April 2025

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### 1.0 INTRODUCTION

According to the Community Planning Act Water Resources Act, Sections 373.709 and 163.3177(6)(c)4, Florida Statutes (F.S.), each local government is required to amend its local government comprehensive plan to update and/or include a 10-year water supply facilities work plan following the approval of an updated regional water supply plan (*North Florida Regional Water Supply Plan*, December 2023). 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 Water Supply Facilities Work Plan and related Comprehensive Plan amendments are reviewed and approved by the Florida Commerce Department and the St. Johns River Water Management District (SJRWMD). 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 City's existing and projected water demands for a 10-year planning period, 2024-2034. The City's first Water Supply Facilities Work Plan was completed in 2019.

### 2.0 BACKGROUND

### 2.1 Location

The City of Jacksonville, Duval County, Florida is located along the Atlantic Ocean in the northeastern part of Florida. It is bordered on the north by the Nassau River, Nassau County; on the south by Clay County and St. Johns County; on the east by the Atlantic Ocean; and on the west by Baker County.

Duval County has a total area of approximately 850 square miles. The entire county, with the exception of four (4) incorporated areas, form the Consolidated City of Jacksonville. Three (3) of the incorporated areas; i.e. Jacksonville Beach, Neptune Beach, and Atlantic Beach are located between the Intracoastal Waterway and the Atlantic Ocean. The fourth incorporated area, the Town of Baldwin, is located at the intersection of U.S. 301 and U.S. 90 in the western section of the City.

### 2.2 Service Area

JEA serves as the City's primary water utility. The service territory includes virtually all of Duval County; approximately 143 square miles in St. Johns County; approximately 620 square miles in Nassau County; and a small number of customers in Clay County. Within Duval County, nine (9) utilities also supply potable water; these utilities are listed below.

- City of Baldwin
- Normandy Villages Utility Company
- Neighborhood Utilities, Inc.
- Commercial Utilities, Grace and Company
- Regency Utilities, Inc.
- City of Atlantic Beach
- City of Neptune Beach
- Jacksonville Beach Utility
- First Coast Regional Utilities

With the exception of First Coast Regional Utilities, Figure 3 identifies the utility service areas listed above. Those territories are not subject to service by JEA.

In FY 2023, JEA's Water System consisted of 29 major and 10 minor water treatment plants (WTPs) and two repump facilities and is divided into two major distribution grids: the North Grid and the South Grid (one on each side of the St. Johns River). The system includes four (4) minor distribution grids: Ponte Vedra, Ponce de Leon, Mayport and Nassau County. The major distribution grids are fully interconnected, which provides the Water System with a high degree of redundancy.

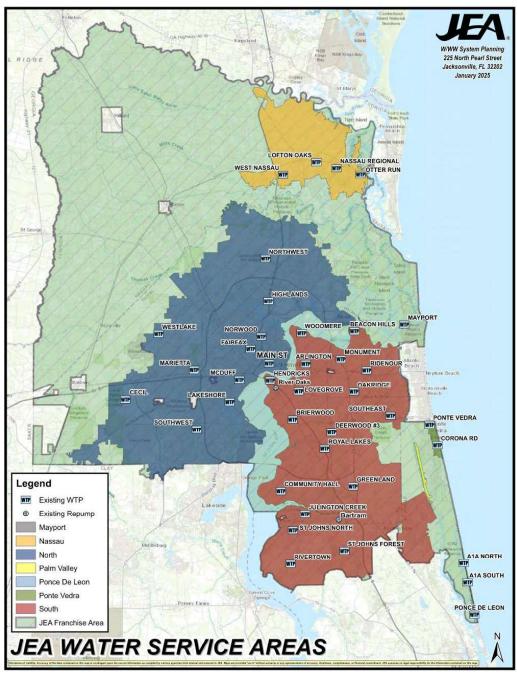


Figure 1: JEA Water Service Area Source: JEA

### 2.3 Water Supply Related Agreements

JEA was established in 1968 to own and manage the electric utility, which had been owned by the City since 1895. The City's Charter was amended in 1997 to authorize JEA to own and operate other utility systems, including the Water and Sewer System. The Charter authorizes JEA to construct, acquire, establish, improve, extend, enlarge, maintain, repair, finance, manage, operate and promote its utilities systems, and to furnish electricity, water, sanitary sewer service, natural gas and other utility services as authorized therein within and outside of the City and for said purposes to construct and maintain electric lines, pipelines, water and sewer mains, natural gas lines and related facilities along all public highways and streets within and outside of the City. Should any additional water and sewer utility system be undertaken by JEA in the future, such utility system may, at the option of JEA, constitute an additional utility function or with approval by the Jacksonville City Council be added to, and may become a part of, the Water and Sewer System or the District Energy System. The Charter also confers upon JEA the power to sue, to enter into contracts, agreements and leases, and to sell revenue bonds to finance capital improvements and to refund previously issued evidences of indebtedness of JEA.

Pursuant to a 30-year interlocal agreement with St. Johns County, JEA made an up-front payment in December 2001 to the county which JEA expected to realize in providing retail sales of water and wastewater services (excluding reclaimed water) for the next 10 years in St. Johns County. Under the terms of the interlocal agreement, subsequent utilities were purchased and the county granted JEA the right to: 1) provide water and wastewater service to those customers in an acquired franchise area within St. Johns County, 2) provide water and wastewater service to additional areas in the county not currently served by either the St. Johns County Water and Sewer Department or other water and wastewater utilities and 3) acquire, at JEA's sole discretion, other private utilities in northern St. Johns County.

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 to additional areas in the county not currently served by either Nassau County or other water and wastewater utilities.

|                           | DESCRIPTION   | PROVISIONS   | STATUS                                |
|---------------------------|---|--|---------------------------------------|
| City of Atlantic<br>Beach | Sewer Agreement – provides<br>for sewage treatment and<br>disposal for the Village of<br>Mayport  | JEA constructed the collection and delivery<br>facilities for discharge to the City's treatment<br>facility and pays monthly based on the flow   | No revisions<br>currently<br>proposed |
| Nassau County             | Water, Sewer, and Reuse<br>Interlocal Agreement –<br>provides water and<br>wastewater (including<br>reuse) services within<br>Nassau County | JEA acquired service territory in Nassau<br>County   | No revisions<br>currently<br>proposed |
| St. Johns County          | Water MOU – various<br>agreements including a<br>wholesale water and<br>wastewater agreement;<br>service area boundary<br>adjustments       | Wholesale water service commitment to the<br>County of 2,250,000 gpd; allow JEA to<br>construct and operate up to 3 wells in the<br>River Town DRI with an average daily flow<br>withdrawal of 0.75 MGD by year 2012 and 1.5<br>MGD by year 2022 | No revisions<br>currently<br>proposed |

Table 1: Water Agreement Description, Provisions, and Status Source: JEA JEA does not have any potable water agreements with Clay County, the Town of Baldwin, Naval Air Station Jacksonville (NAS JAX), or Naval Station Mayport (NS Mayport). JEA has a wastewater agreement with the City of Atlantic Beach but does not have a potable water agreement with them.

### 3.0 DATA AND ANALYSIS

Water use is defined as current or historic levels of water withdrawn from fresh (ground and surface) water sources and is expressed in average 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 fresh, ground and surface, water sources) to meet the needs of an increasing population and to meet the needs of the aforementioned water use categories, and is 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 Water Sources

Groundwater is currently the City of Jacksonville's primary water source. Water supply is 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 JEA customers. In FY 2023 the Water System had 139 wells supplying the various water plants. Each plant consists of wells, aerators, ground storage tanks, water quality treatment and pH control and chlorination facilities. The permitted maximum daily treatment capacity of the overall Water System is 324 mgd.

The Floridan Aquifer should be capable of meeting JEA's needs well into the future, provided that JEA continues its 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 via river crossing pipelines. JEA has also implemented a groundwater quality management program to mitigate the effects of (non-lateral) saltwater intrusion into specific wells on the systems south grid that includes routine well monitoring, backplugging of specific wells, and reducing or replacing wells that show continued increases in chlorides.

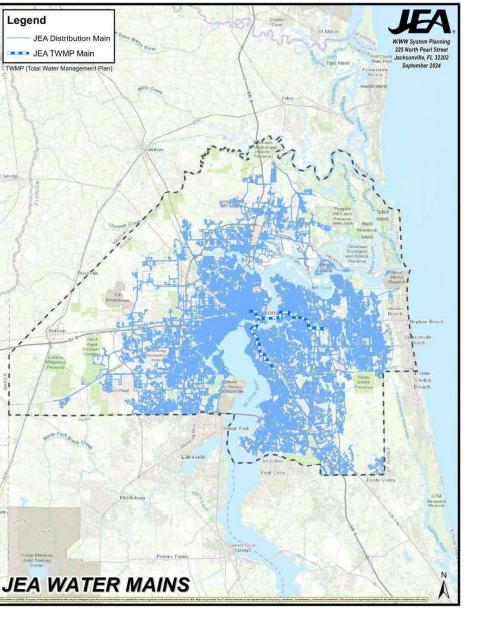
Total finished water storage capacity of the Water System is 84 million gallons (FY 2023). All water storage facilities are located at the various water treatment plants, including two repump facilities. The Water System does not utilize elevated storage tanks.

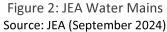
JEA also uses reclaimed water for irrigation where feasible. Ten of the 11 Wastewater Treatment Facilities (WWTFs) that JEA operates and maintains produce reclaimed water within the wastewater service area covering four (4) counties – Nassau, Duval, St. Johns, and Clay.

### 3.1.1 Self-Supply

Portions of Duval County, while within the overall JEA service area boundary, are currently served by individual water wells and septic systems. Within Duval County, the extent of JEA water mains is shown in Figure 2. Areas outside of the service extent of these mains are served by private wells.

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There are an estimated 30,000 private wells within Duval County; locations identified as having individual water wells are shown in Figure 3. These areas are expected to remain as self-supply areas, with the following population projections for those areas.

|            | 2020   | 2025   | 2030    | 2035    | 2040    | 2045    |
|------------|--------|--------|---------|---------|---------|---------|
| Projected  | 76,408 | 87,419 | 100,519 | 110,853 | 120,121 | 128,271 |
| Population |        |        |         |         |         |         |

Table 2: Projected Population for Water Self-Service Areas, shown in Figure 3 Source: JEA As shown in Figure 3, the private individual wells are most likely to be located in areas that are more rural. There are no current countywide plans by JEA to remove private wells and connect those areas to the centralized water system.

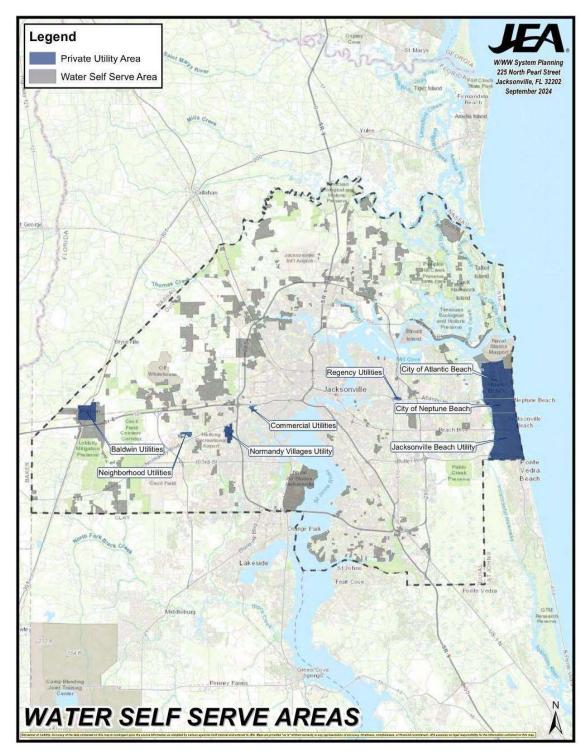


Figure 3: Water Self-serve Areas Source: JEA (September 2024)

There are an estimated 55,000 septic tanks within Duval County. The Florida Department of Health for Duval County (DOH) has identified 35 areas predominately served by septic tanks with a high number of repair permits. These areas are called Septic Tank Failure Areas. The City's Environmental Quality Division ranked these areas based on a number of factors including the potential for water quality benefit, age of the development area, median home value, presence of an existing water distribution system, and the percentage of undeveloped lots. The rankings were prioritized to develop a list for a Septic Tank Phase Out (STPO) program. Figure 4 shows the general location of septic tanks within Duval County as well as the Septic Tank Phase Out (STPO) area; prioritized areas are shown in Figure 5. Properties within the STPO areas that are currently served by a private well system will be connected to the centralized water system when the area is addressed. Funding for the STPO areas is limited with current funding levels not sufficient to address all of the areas that have been ranked. The total number of septic tanks within the STPO areas is estimated at 22,300. Of these properties, an estimated 3,500 are served by private wells. There are no current plans by JEA to connect the septic tank properties, outside of the prioritized areas, to a centralized sewer system.

Pursuant to Section 163.3177(6)(c), Florida Statutes, the City has developed a "Sanitary Sewer Service Feasibility Analysis" (May 28, 2024) and incorporated the document as a reference to the Infrastructure Element of the Comprehensive Plan. The analysis considers the feasibility of providing sanitary sewer services within a 10-year planning horizon, for developments over a certain size, and will be updated as needed to account for future applicable developments.

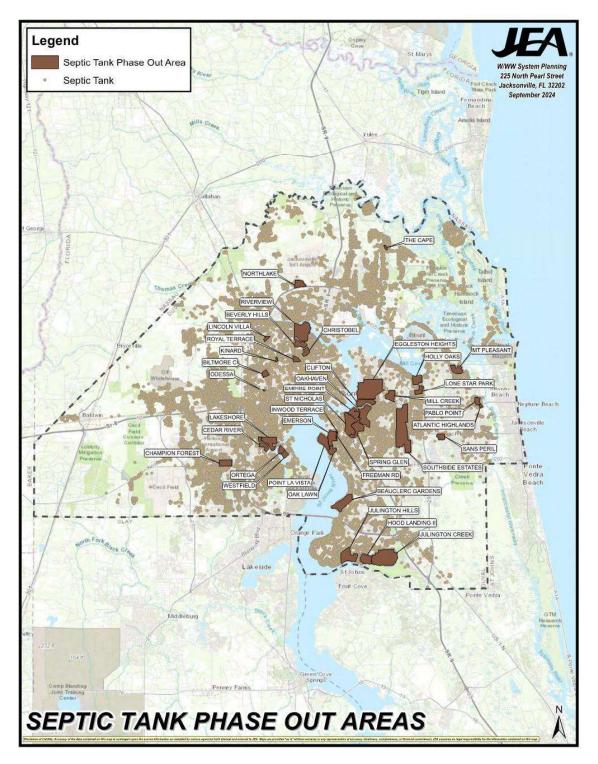


Figure 4: Septic Tanks and Septic Tank Phase Out Areas, Duval County Source: JEA (September 2024)

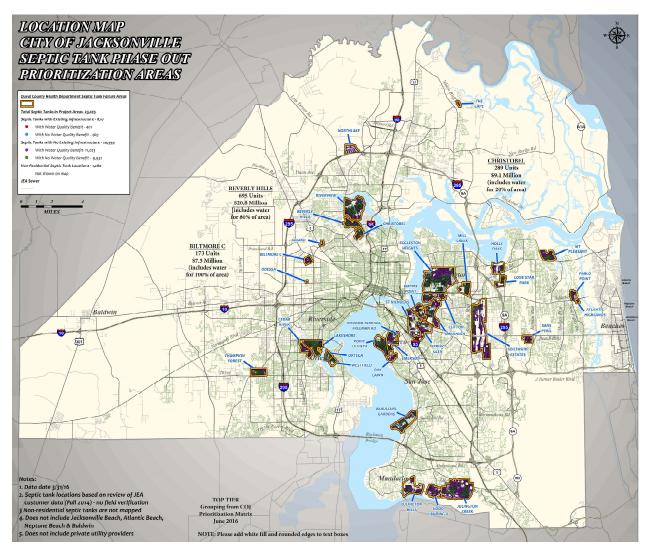


Figure 5: Septic Tank Phase Out Prioritization Areas, Duval County Source: JEA

### 3.2 Consumptive Use Permit

JEA and the City are committed to proper management of water resources and to providing residents with a sustainable water supply. JEA currently operates under one (1) Consumptive Use of Water Permit (CUP). JEA renewed its Consumptive Use Permit (CUP 88271-11) with the SJRWMD in May 2011. The CUP was renewed for a 20-year period and will expire in 2031. The CUP allocates to JEA a maximum groundwater withdrawal of 56,575 million gallons per year (mgy) from the Floridan Aquifer for the public supply system until such time as the permit needs to be renewed. This amount may contingently increase in the last 10 years of the permit up to 59,359 mgy through the permittee's providing additional reclaimed water to replace permitted Floridan Aquifer uses, if it becomes feasible. The amount permitted is to serve a projected population of 1,026,161 people in 2031 with water for household, commercial/industrial, water utility, and essential (fire protection) uses and unaccounted-for water losses.

Reclaimed water is an integral part of JEA's CUP. According to condition number 12 of the CUP, JEA can increase its annual allocation of groundwater up to 163 mgd (from the Floridan Aquifer) if all reclaimed

Exhibit 2 Page 12 of 68 water production goals are met.

There are seven (7) years before the expiration of JEAs CUP. The Water Supplies Facilities Work Plan covers the period through 2034. While the CUP will expire just before the planning timeframe, the allocation of needs from the CUP extrapolates out to the end of the WSFWP planning period.

Additionally, the US 301 Villages master planned community includes 7,000 acres located west of US 301 and south of I-10. This area is entitled for a mix of uses including single-family and multi-family residential, commercial, hospital, office and hotel/motel uses. 301 Capital Partners, LLC, or its subsidiary, are responsible for the design and construction of the water, wastewater and reuse facility utilities for the planned community. 301 Capital Partners, LLC, and its Florida Public Service Commission authorized utility subsidiary, First Coast Regional Utilities, Inc., has received a 1.2 mgd Consumptive Use Permit (CUP) issued July 11, 2024 by the Water Management District. The First Coast Regional Utilities CUP expires in 2044, beyond the US 301 Villages phased development. Additional information on the First Coast Regional Utilities CUP for the US 301 Villages mixed use community is included in Appendix 4.

### 3.3 Potable Water Production and Treatment Facilities

The Water System, which served an average of 391,859 customer accounts and 25,764 reuse water customers, respectively, in the FY2023, was composed of 39 water treatment plants and two repump facilities, 139 active water supply wells, approximately 5,112 miles of water distribution mains, and water storage capacity of 84 million gallons (including the repump facilities). The overall peak capacity of the Water System was approximately 324 mgd, and the Water System wells produced an average daily flow of approximately 126 mgd and a maximum daily flow of approximately 163 mgd during the FY2023.

As previously mentioned, JEA's water distribution system is divided into six (6) distinct service grids serving most of Duval County and parts of St. Johns, Clay and Nassau Counties. The North and South Grid are currently interconnected via 30 inch and 36 inch transmission mains that cross the St. Johns River in downtown Jacksonville, commonly referred to as the Total Water Management Plan (TWMP) Mains. The purpose of the TWMP Mains is to transfer water from the North to the South grid. Each service grid contains an interconnected network of WTPs and transmission and distribution mains. JEA's water distribution grids have grown through the acquisition of several privately owned utilities over the past 20 years; United Water and Florida Water being the largest of these acquisitions. There are 39 active WTPs in JEA's fleet; 11 in the North Grid, 18 in the South Grid, four (4) in the Nassau (Lofton Oaks) Grid, two (2) in the Ponte Vedra Grid, three (3) in the Ponce de Leon Grid and one (1) in the Mayport Grid in FY 2023. There are two (2) additional WTPs planned for construction within the next 10 years: Wildlight WTP (Nassau County) and SJRPP WTP in the North Grid; see JEA service area map, Figure 1.

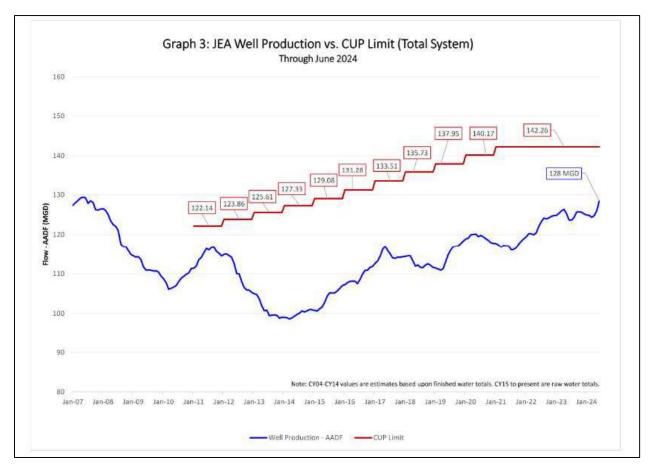


Figure 6: JEA Water Production vs. CUP Limit Source: JEA's Q3/FY 2024 Metrics

Figure 6 shows the historic monthly and annual average daily production for the overall JEA Water System of raw water as compared to the annual CUP limit for the total system. The CY2023 annual average potable water produced from the groundwater was 126 mgd. It is important to note that JEA customers average a demand of 13 mgd of reclaimed water, which directly offsets potable groundwater use. In CY2023 the water system had a total water demand of 139 mgd (126 groundwater + 13 reclaimed water).

### 3.4 Reclaimed Water System

JEA has significantly expanded its reclaimed water system (Figure 7), and potable water offsets through the use of reclaimed water, over a relatively short period of time. JEA acquired the Julington Creek Plantation (JCP) WWTF in 1999, which operated at nearly 100 percent reuse of its effluent with a capacity of 1.0 mgd. JCP WWTF was JEA's initial reclaimed water program until the construction of 2.0 mgd for public access at the Arlington East WWTF in 1999. Reclaimed water demands on the system in 1999 were less than 0.5 mgd and were primarily located in the region surrounding JCP WWTF.

The major backbone of the reclaimed water system was constructed between 2002 and 2008, a 26-mile transmission main between Arlington East and Mandarin WWTFs. Retail customer reclaimed water demand has rapidly increased since the completion of the reclaimed transmission main in 2008. The first homes within the Nocatee development, which occupies land in both northeast St. Johns County and southeast Duval County, were connected in 2007; this was the start of potable offset reclaimed water

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Exhibit 2 Page 14 of 68 demands on the reclaimed water system. Potable offset/retail reclaimed water customers have grown by an average of 2,900 customers per year over the last three (3) years.

As of FY 2023, JEA operates and maintains 11 WWTFs, 10 of which produce reclaimed water, within a wastewater service area that covers four (4) counties (Nassau, Duval, St Johns and Clay). Six (6) of JEAs WWTFs produce public access reclaimed water and four (4) produce non-public access reclaimed water used strictly at the WWTF and/or within a restricted area. The overall reclaimed water production capacity is 41 mgd. The southeast region of JEA's wastewater service area, served by Arlington East, Monterey, Mandarin, Blacks Ford, JCP, Ponte Vedra and Ponce de Leon WWTFs, currently has the greatest offset potable water demand with reclaimed water as opposed to the other regions north and west of the St. Johns River.

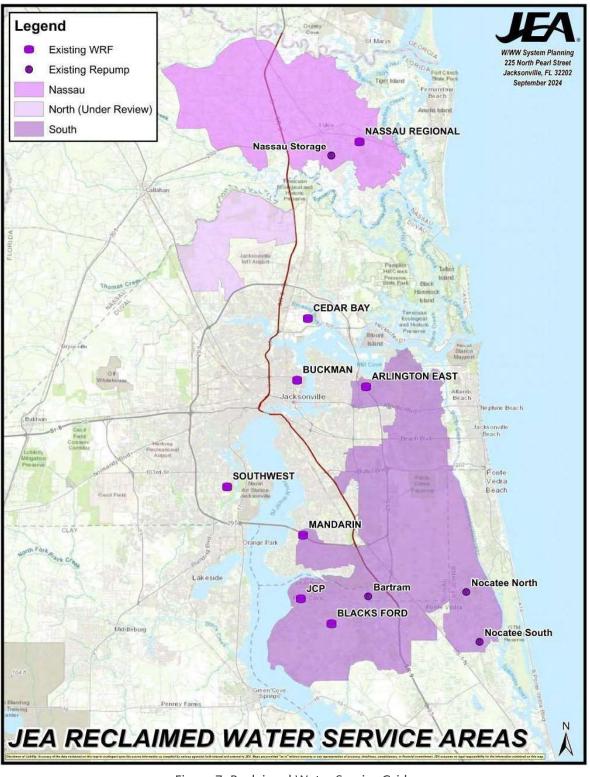


Figure 7: Reclaimed Water Service Grids Source: JEA

Total reclaimed water demands (retail, bulk, and internal use at JEA WWTFs) have increased to an annual average of 22 mgd (FY2023). Based on projected system growth, total reclaimed water is estimated to

Exhibit 2 Page 16 of 68 reach 31 mgd by 2031. Additionally, planned alternative water projects that will utilize reclaimed water are currently underway and could increase the projected reclaimed water use to over 40 mgd by 2031.

The primary factors that have driven JEA's implementation of reclaimed water are:

- The need to reduce nutrient discharges into the St. Johns River (TMDL, Total Maximum Daily Load)
- The desire to reduce groundwater withdrawals for irrigation
- JEA and City policies to promote the efficient use of water and protect the water resources of the region

Reclaimed water that JEA's WWTFs produce is specific to the needs of the area served. The South Grid reclaimed water service area (Arlington East, Mandarin, Blacks Ford and JCP WWTFs) has been a focal point of the JEA reclaimed water investment and expansion as a result of the Lower St. Johns River TMDL (circa 2004), the River Accord (circa 2006) and the Total Water Management Plan (TWMP, circa 2007), in addition to residential growth. Arlington East, Mandarin, Blacks Ford and JCP WWTFs were gridded together with a major north/south transmission main to provide reclaimed water to future development in the southern extent of the JEA service area. Regions to the West and North of the St. Johns River historically have not seen residential growth at the rate seen in the South Grid reclaimed water service area.

JEA has been successful in all of these goals, and through further system expansion and implementation of new reclaimed water projects, expects to achieve feasible reuse, aquifer recharge, and enhancement through its reclaimed water program for the duration of its CUP and beyond. The City's Comprehensive Plan and local ordinance code provide enabling policies and companion requirements to further the maintenance and expansion of the water reclamation system; these policies are discussed later in this Work Plan.

JEA may need to expand its facilities to adequately meet the future demands of the system. Proposed facility expansions and new facilities are planned in order to more evenly distribute the production and pumping capabilities of the gridded system while increasing the overall system reliability and quality.

### 3.4.1 Reclaimed Water Agreement(s)

In 2001, JEA executed an interlocal agreement with Nassau County (see Table 1 and Section 2.3). This agreement includes provisions allowing JEA to provide reclaimed water. At this time no revisions to this agreement are proposed.

In 2006, a reclaimed water connection ordinance was adopted by the City of Jacksonville. Agreements were established with major developments in St. Johns County (i.e. Nocatee, RiverTown, Aberdeen, and Durbin Crossing DRIs) to provide retail reclaimed water service; this continued to other new developments as they were established.

In February 2015, JEA updated the JEA Rules and Regulations for Water, Sewer & Reclaimed Services to include reclaimed water service as a required connection within the JEA reclaimed water service area. The required connection for new developments is subject to the conditions described in the new Rules and Regulations. These Rules and Regulations are a major step forward in promoting an alternative water supply and continued improvement of the JEA reclaimed water program. In the future, there is potential for more reclaimed water service areas to be implemented; North and West of the Jacksonville International Airport is an area currently under review.

Exhibit 2 Page 17 of 68 As of September 2023, JEA has constructed over 580 miles of pipeline to serve over 25,000 customers, with a reclaimed water delivery capacity of 41 mgd. Retail customers have grown significantly over the last 15 years as a result of the reclaimed water infrastructure installed throughout the South Grid and Nassau County. A majority of reclaimed water customers are located in southern Duval and northern St. Johns Counties; however, the reclaimed customer base is expanding throughout the JEA service area.

### 4.0 Population and Water Demand Projections

Abundant, clean drinking water is one of Jacksonville's most valuable resources. Potable water must be adequate to meet the future demands of the City while sustaining water resources and related natural systems.

### 4.1 Population Projections

The University of Florida's Bureau of Economic and Business Research (BEBR) produces Florida's official city, county and state population estimates each year. The population projections developed by BEBR are generally accepted as the standard throughout Florida. Table 3 provides the BEBR population projections for Duval County. JEA and the SJRWMD use BEBR population projections as the base number for estimating future population. JEA and the SJRWMD also use acceptable industry standards to project the need for water supply utilities.

| Planning District | 2020    | 2025      | 2030      | 2035      | 2040      | 2045      |
|-------------------|---------|-----------|-----------|-----------|-----------|-----------|
| Urban Core        | 33,418  | 36,949    | 35,757    | 34,104    | 32,331    | 30,616    |
| Greater           |         | 252,074   | 264,863   | 274,163   | 280,618   | 286,043   |
| Arlington/Beaches | 227,983 |           |           |           |           |           |
| Southeast         | 267,874 | 296,180   | 320,104   | 339,512   | 355,256   | 368,918   |
| Southwest         | 181,328 | 200,489   | 217,059   | 230,497   | 241,554   | 251,108   |
| Northwest         | 128,407 | 141,976   | 142,441   | 141,130   | 138,715   | 136,255   |
| North             | 89,640  | 99,113    | 108,451   | 116,387   | 122,707   | 128,370   |
| Beaches/Baldwin   | 46,841  | 51,791    | 53,516    | 54,483    | 55,067    | 55,442    |
|                   |         |           |           |           |           |           |
| County Total      | 975,491 | 1,078,572 | 1,142,191 | 1,190,275 | 1,226,247 | 1,256,752 |
| City Total        | 928,650 | 1,026,781 | 1,088,675 | 1,135,792 | 1,171,180 | 1,201,310 |

Table 3: Duval County Population Growth Projections, 2020-2024

Source: City of Jacksonville Planning and Development Department, University of Florida, Bureau of Economic and Business Research; November 2023

The City of Jacksonville Planning and Development Department uses the cohort-component method to project population and compares it to projections prepared by BEBR in order to ensure consistency and accuracy. Projections used by the City of Jacksonville Planning and Development Department assist in the

on-going assessment of Jacksonville's 2045 Comprehensive Plan. The population projections in Table 3 are from Table L-3 of the Future Land Use Element's Background Report and were used to update the Comprehensive Plan from a horizon year of 2030 to 2045; the 2045 Comprehensive Plan is based on the projections in Table 3.

JEA's demand forecast is based upon recent customer connection and demand/production trends. Historical new connection trends are analyzed on a grid or basin basis and then consolidated into an overall service territory trend. Utilizing the connection trends along with total water production data, a gallons per day per connection metric is developed and then applied against the projected connections to develop a future demand forecast. Served population estimates are calculated on an as needed basis. JEA does not have demographic information for customers or number of people per connection served. Population is estimated using only residential and multifamily connection counts multiplied by a persons per household factor obtained from the United States Census Bureau for the specific County/region in question.

| Population Projections |         |         |        |                |                  |         |  |
|------------------------|---------|---------|--------|----------------|------------------|---------|--|
| Grid                   | North   | South   | Nassau | Ponte<br>Vedra | Ponce De<br>Leon | Mayport |  |
| 2024                   | 344,563 | 452,247 | 31,803 | 4,175          | 1,866            | 245     |  |
| 2025                   | 350,600 | 460,744 | 33,980 | 4,198          | 1,878            | 251     |  |
| 2026                   | 356,637 | 469,036 | 36,157 | 4,222          | 1,889            | 256     |  |
| 2027                   | 362,673 | 477,124 | 38,334 | 4,245          | 1,900            | 261     |  |
| 2028                   | 368,710 | 485,006 | 40,511 | 4,269          | 1,911            | 267     |  |
| 2029                   | 374,747 | 492,684 | 42,688 | 4,292          | 1,922            | 272     |  |
| 2030                   | 380,784 | 500,156 | 44,865 | 4,316          | 1,933            | 277     |  |
| 2035                   | 410,967 | 534,445 | 55,749 | 4,433          | 1,988            | 304     |  |
| 2040                   | 441,151 | 563,609 | 66,634 | 4,550          | 2,043            | 330     |  |
| 2045                   | 471,335 | 587,650 | 77,518 | 4,668          | 2,087            | 357     |  |

Table 4: Population Projections, JEA Service Area

Source: JEA

### 4.2 Projected Water Demands

JEA renewed its CUP with the SJRWMD in May 2011 for a 20-year period. Figure 8 shows the projected total water demand and the expected water demand from the Floridan Aquifer. The difference from the purple dashed line and blue dashed line is the projected volume of potable offset reclaimed water demand.

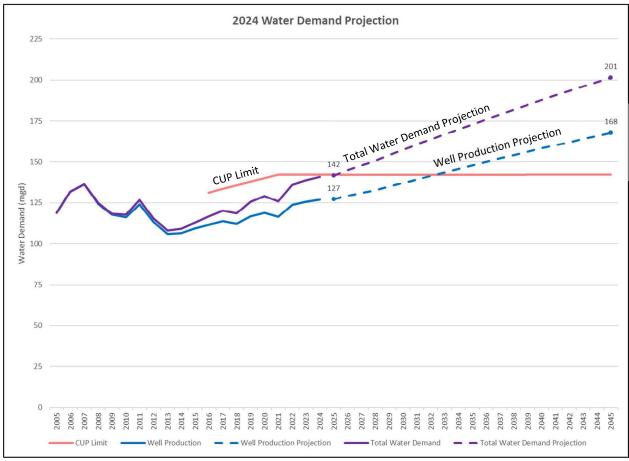


Figure 8: Water Demand Projections Source: JEA

Using the customer connection and demand/production trends, historical new connection trends are analyzed on a grid or basin basis and then consolidated into an overall service territory trend. Utilizing the connection trends along with total water production data, a gallons per day per connection metric is developed and then applied against the projected connections to develop a future demand forecast. The result of the final forecast of total water demand per grid is shown in Table 5.

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| Individual | Individual Grid Demand in MGD |            |                |                     |                          |         |                       |  |
|------------|-------------------------------|------------|----------------|---------------------|--------------------------|---------|-----------------------|--|
| Year       | North Grid                    | South Grid | Nassau<br>Grid | Ponte<br>Vedra Grid | Ponce<br>de Leon<br>Grid | Mayport | Total Water<br>Demand |  |
| 2019       | 45.22                         | 66.56      | 3.57           | 1.06                | 0.44                     | 0.05    | 116.90                |  |
| 2020       | 47.01                         | 66.71      | 3.69           | 1.01                | 0.42                     | 0.06    | 118.89                |  |
| 2021       | 44.14                         | 67.19      | 3.65           | 1.03                | 0.38                     | 0.06    | 116.44                |  |
| 2022       | 46.94                         | 71.19      | 4.25           | 1.08                | 0.33                     | 0.06    | 123.85                |  |
| 2023       | 48.48                         | 71.09      | 4.67           | 1.07                | 0.25                     | 0.06    | 125.64                |  |
| 2024       | 49.19                         | 72.20      | 4.15           | 1.07                | 0.28                     | 0.06    | 126.96                |  |
| 2025       | 49.39                         | 72.07      | 4.35           | 1.08                | 0.31                     | 0.06    | 127.26                |  |
| 2026       | 49.06                         | 74.07      | 4.55           | 1.08                | 0.35                     | 0.07    | 129.16                |  |
| 2027       | 48.71                         | 76.10      | 4.74           | 1.08                | 0.38                     | 0.07    | 131.08                |  |
| 2028       | 49.35                         | 76.82      | 4.94           | 1.09                | 0.41                     | 0.07    | 132.67                |  |
| 2029       | 50.54                         | 77.66      | 5.14           | 1.09                | 0.41                     | 0.07    | 134.90                |  |
| 2030       | 51.72                         | 78.48      | 5.33           | 1.10                | 0.41                     | 0.07    | 137.11                |  |
| 2035       | 57.64                         | 82.26      | 6.32           | 1.13                | 0.43                     | 0.08    | 147.85                |  |
| 2040       | 63.57                         | 85.62      | 7.30           | 1.16                | 0.44                     | 0.08    | 158.16                |  |
| 2045       | 69.49                         | 88.39      | 8.28           | 1.19                | 0.45                     | 0.09    | 167.89                |  |

Table 5: Water Demand by Grid

Source: JEA

### 4.3 Projected Reclaimed Water Demand

Reclaimed water is an integral part of JEA's CUP. By implementing proposed capital projects, JEA has projected total reclaimed water to reach 44 mgd by 2040. JEA will continue its commitment to develop and invest in the expansion of reclaimed water treatment and distribution in order to support the needs of their customers and maximize the use of reclaimed water to the extent it is economically, environmentally and technologically feasible.

### 5.0 CAPITAL IMPROVEMENT PROJECTS

JEA's Capital Improvement Plan identifies water, wastewater and reclaimed water treatment, transmission, collection and distribution projects in the capital budget. Water treatment and distribution Capital Improvement Projects (CIP) that are currently planned to begin in the next ten years or are underway are identified and are included in Appendix 2. As planning needs dictate, the timing of specific projects may change, or projects substituted to meet the needs of JEA customers. Project specific information and descriptions are not included in this report but are available via JEA's Capital Budget. Current planned projects with 10-year project budgets totaling approximately \$1.99 billion are scheduled to be spent during this time period.

JEA has \$1.9 million in reclaimed water projects already planned to serve the needs of the reclaimed water system over the next ten years. These projects are focused on meeting the projected demands, offsetting potable water use and minimizing the environmental impacts to the St. Johns River and Floridan Aquifer. Most projects are focused on providing the projected capacity to support increasing demands from new growth; some projects are currently conceptual and require further evaluation to determine viability. Appendix 3 is a list of the reclaimed water Capital Improvement Projects.

Exhibit 2 Page 21 of 68 The 2023 North Florida Regional Water Supply Plan (NFRWSP) identifies water conservation efforts and water supply development and water resource development project options to meet water demands while protecting water resources. Appendix 1 of this plan lists all the project options from the 2023 NFRWSP and highlights those that are listed in the proposed JEA CIP. Those projects that involve JEA and are not highlighted are not being implemented by JEA currently or are within Nassau County limits. JEA is evaluating several significant reclaimed water project options, which have the potential to expand reclaimed water use even further. One program in particular, the water purification program, is investigating further purifying the available reclaimed water to drinking water standards so it can be used to replenish the aquifer. Replenishing the aquifer would result in a proportional increase in the Consumptive Use Permit. Below are the water purification program.

| RWSP        | District | County | Project Type  | Project Name /            | Project       | Estimated  |
|-------------|----------|--------|---------------|---------------------------|---------------|------------|
| Project No. |          |        |               | Description               | Status        | Completion |
|             |          |        |               |                           |               | Date       |
| 2023_30     | SJRWMD   | Duval  | Technology    | Water Purification        | Construction/ | 2025       |
|             |          |        | Evaluation    | Demonstration Facility    | Underway      |            |
| 2023_39     | SJRWMD   | Duval  | Indirect      | SWDE – Arlington East     | Design        | 2031       |
|             |          |        | Potable Reuse | WRF Purification Facility |               |            |
| 2023_40     | SJRWMD   | Duval  | Indirect      | SWDE – Southwest WRF      | Planning      | 2031       |
|             |          |        | Potable Reuse | Purification Facility     |               |            |
| 2023_41     | SJRWMD   | Duval  | Indirect      | SWDE – Cedar Bay          | Planning      | 2031       |
|             |          |        | Potable Reuse | Purification Facility     |               |            |

Table 6: Purification Projects

Source: 2023 North Florida Regional Water Supply Plan, Appendix K, Table K2

The City of Jacksonville updates its 5-Year Capital Improvements Project budget (CIP) annually. Projects identified in JEA's Water Resource Master Plan have been included in the most current CIP, adopted in September 2024. Appendix 3 of this plan highlights the reclaimed water projects being implemented by JEA that are also listed as project options in the 2023 NFRWSP. Projects that are not highlighted are not included as project options in the 2023 NFRWSP. The City and JEA will continue to evaluate water and reclaimed water projects identified in this plan as well as other projects that may be necessary to meet projected water demands and will update the CIP accordingly.

### 6.0 FUTURE WATER SUPPLY PLANNING AND COORDINATION

To promote the efficient use of water and offset groundwater withdrawals, the City of Jacksonville and JEA have committed to various alternative water supply strategies.

For the 10-year period of this Work Plan, the City and JEA will continue to focus on the water supply planning strategies listed below. These strategies are implemented through a variety of programs, policies, and projects as mentioned in this section and all include active participation with the SJRWMD and other stakeholders in the Regional Water Supply Planning process. To this end, explicit actions are outlined by strategy below, and continued collaboration is planned through the North Florida RWSP Project Conceptualization Partnership project option (project number 2023\_12) as identified in the 2023 North Florida Regional Water Supply Plan, Appendix K.

- Conservation;
- Provision of Water Supplies to Development;

- Protection of Water Sources;
- Alternative Water Sources; and
- State and Regional Collaboration

### 6.1 Water Conservation

The City and JEA have pursued conservation efforts to protect and conserve the Floridan Aquifer. In addition to practicing conservation measures, the City and JEA have also established educational campaigns, enabling policies, and specific projects with the goal of conserving water resources. The City and JEA plan to maintain these conservation programs and improve them where possible.

Aside from practicing conservation within their organizations, the City and JEA also focus on developing and disseminating educational campaigns, enabling low-impact development (LID), and requiring responsible landscaping applications such as Florida-friendly landscaping and similar measures.

The City and JEA coordinate and plan using the programs, policies, and projects listed in the table below.

|                       |  | 2045 Comprehensive Plan   | Local Ordinance  | JEA  | Additional  |
|-----------------------|--|---|--|--|---|
|                       | Low Impact<br>Development<br>(LID)   | FLUE 1.5.9; CCME 13.3.6 and<br>13.5.5   |  |  | Duval County<br>Low-Impact<br>Development<br>Manual, July<br>2013   |
| Water<br>Conservation | Florida-<br>friendly<br>Landscaping<br>&<br>landscaping-<br>related<br>efforts | IE NGAR 2.2.4; IE PW 1.8.3;<br>CCME 3.4.4   | Chapter<br>656.1211;<br>Irrigation<br>Ordinances<br>2008-030 and<br>2009-360   | JEA Irrigation<br>Tips for<br>Conservation<br>flyers         | SJWMD<br>Model Water<br>Conservation<br>Ordinance<br>for landscape<br>irrigation<br>Rule 40C-<br>2.042(2)<br>F.A.C.;<br>Section<br>373.62 F.S.                      |
|                       | Education  | IE NGAR 1.3.7; IE NGAR Obj.<br>2.2; IE NGAR 2.2.1; IE NGAR<br>2.2.6; IE PW 1.6.7; IE PW Obj.<br>1.8; IE PW 1.8.1; IE PW 1.8.5 | EQD Education<br>Flyers<br>Irrigation,<br>Fertilizer,<br>Figuring Out<br>Fertilizer for<br>the Home<br>Lawn, and<br>Frequently<br>Asked<br>Questions | JEA Teacher<br>Resources<br>free<br>educational<br>materials | DEP/UF<br>resource<br>document<br>"Florida-<br>Friendly<br>Landscape<br>Guidance<br>Models for<br>Ordinances,<br>Covenants,<br>and<br>Restriction,"<br>January 2009 |

FLUE- Future Land Use Element

IE NGAR- Infrastructure Element Natural Groundwater Aquifer Recharge Sub-element

IE PW- Infrastructure Element Potable Water Sub-element

CCME- Conservation/Coastal Management Element

Table 7: Water Conservation Coordination

### 6.2 Provision of Water Supplies

Concerning future planning and coordination for water provision, the City and JEA recognize the need for developments to be supplied with water resources concurrently as well as for services to be provided to areas in anticipation of future growth and development. To this end, several policies underscore this effort, and these enabling policies and ordinances are listed in the table below.

|                                      |                                    | 2045Comprehensive Plan   | Local Ordinance |
|--------------------------------------|------------------------------------|--|-----------------|
|                                      | Providing Supplies<br>Concurrently | FLUE Obj. 1.2; FLUE 1.2.11; IE<br>PW 1.1.1; IE PW 1.1.2; IE PW<br>1.3.2; CIE 1.4.4                         |                 |
| Provision of Water to<br>Development | Future Provision                   | FLUE 1.1.25; FLUE 1.2.8;<br>FLUE 1.2.12; IE NGAR 1.1.2;<br>IE NGAR 1.2.6; IE NGAR<br>1.2.7; IE PW Obj. 1.3 | Chapter 654.132 |

Table 8: Concurrent and Future Water Provision

### 6.3 Water Source Protection

For the 10-year period of this Work Plan, the City and JEA will continue to focus on water source protection practices, enabled and administered through the following ordinances, policies, programs, and partnerships:

|                            |                          | 2045 Comprehensive Plan  | Local Ordinance   | JEA  | Additional  |
|----------------------------|--------------------------|--|---|--|---|
| Water Source<br>Protection | Protect Water<br>Quality | FLUE 1.5.3; FLUE 1.5.8;<br>FLUE 2.8.6; IE NGAR Obj.<br>1.3; IE NGAR 1.3.3; IE<br>NGAR 1.3.5; IE NGAR<br>1.3.14; IE PW 1.2.3; CCME<br>2.1.5; CCME 2.1.9 | Chapter<br>366.102;<br>Environmental<br>Protection<br>Board (EPB)<br>Rule 8; Chapter<br>654.119 Design<br>standards<br>wetlands and<br>lands adjacent<br>to water<br>bodies; Chapter<br>366.607 Low<br>Maintenance<br>Zones | St. Johns<br>River Accord<br>(partnership) | Groundwater<br>Resource<br>Management<br>Program;<br>Groundwater<br>Recharge<br>Area<br>Protection<br>Program;<br>DEP Source<br>Water<br>Assessment<br>and<br>Protection<br>Program |

Table 9: Water Source Protection Coordination

In 2006, JEA entered into the River Accord with the SJRWMD, COJ, and Florida Department of Environmental Protection (FDEP). The River Accord is an agreement among the parties to reduce nitrogen discharge to the river through increased usage of reclaimed water, upgrades to wastewater treatment plants, septic tank phase-outs, and storm water treatment. Through the River Accord, JEA entered into a cost sharing agreement with the SJRWMD in July 2007. This provided for a \$250 million ten-year commitment to construct reclaimed water projects and upgrade wastewater treatment plants.

### 6.4 Alternative Water Sources

For the 10-year period of this Work Plan, the City and JEA will continue to focus on researching and providing alternative water sources. The primary strategy in this area is expansion of the water reclamation system and aquifer sustainability.

Over the past several years JEA has invested in a reclaimed water system in numerous service areas to help reduce the demand on the potable water system. During 2015, JEA established a reclaimed water system service area and enhanced its rules and regulations to promote the use of reclaimed water throughout its system. In the next decade additional sources of supply will be needed to help reduce the demand on the groundwater supply.

With JEA's support, the City passed a reclaimed water ordinance in 2006. This ordinance requires the construction of reclaimed water distribution systems in developments that JEA is prepared to serve. For more than a decade, JEA has been committed to providing reclaimed water for beneficial use. More than \$85 million has been spent on transmission, treatment and pumping facilities to date.

As previously mentioned, in February 2015 JEA updated the JEA Rules and Regulations for Water, Sewer and Reclaimed Services to include reclaimed water service as a required connection within the JEA reclaimed water service area. Developments planned to be constructed within the reclaimed water service area at a distance greater than the minimum required from existing reclaimed water piping will be required to install reclaimed water piping until the service comes available in the future. Connection requirements are based on Equivalent Residential Connections (ERC) determined for each specific development. The required connection for new developments is subject to the conditions described in the Rules and Regulations. In the future more reclaimed water service areas are planned in regions like Northwest (north of Naval Air Station Jacksonville) as the reclaimed water system is expanded.

Over the next 10 years, JEA has budget plans to spend an additional \$895 million to expand the use of reclaimed water throughout its service area. In addition, JEA is evaluating a number of other significant reclaimed water project options that have the potential to expand reclaimed water use even further. The table below lists the programs and policies that support water reuse.

|                                 |                              | 2045 Comprehensive Plan   | Local Ordinance   | JEA  | Additional  |
|---------------------------------|------------------------------|---|---|--|---|
| Alternative<br>Water<br>Sources | Water<br>Reuse/<br>Reclaimed | FLUE 1.2.12; IE NGAR 1.2.5;<br>IE NGAR 1.2.6; IE NGAR<br>1.2.8; IE NGAR Obj. 2.1; IE<br>PW Obj. 1.7; IE PW 1.7.2; | Chapter 752<br>(Jacksonville<br>Reuse of<br>Reclaimed Water | JEA Rules<br>and<br>Regulations<br>for Water,<br>Sewer & | DEP<br>Comprehensive<br>Reuse Program<br>Chap. 62-610 |
|                                 |                              | CCME 2.2.4  | Program)  | Reclaimed<br>Services                                    | F.A.C.  |

Table 10: Alternative Water Source Coordination

Other sources such as desalination of brackish, ocean or river water, potable reuse could be developed in the future to provide alternative potable water to JEA's customers. These options are much costlier to construct and operate than JEA's current water treatment facilities. These alternative water supply options would influence the current cost of service. The rates may need to be increased to cover the higher costs. JEA continues to work with the SJRWMD and the FDEP to find the most environmentally responsible and financially equitable solution for the community.

In FY2014 JEA began investing potable reuse as an alternative water supply which led to developing a three-phase program. Phase I consisted of pilot testing from 2017-2019. JEA is currently in Phase II which is design, construction and operation of a demonstration scale facility. Phase III considers full-scale implementation at multiple locations.

### 6.5 State and Regional Collaboration

As it is often said, water bodies and the flow of water do not recognize jurisdictional boundaries. As such, state and regional collaboration is necessary to plan effectively for water use, preservation and conservation. Table 11 identifies project options from the NFRWSP that JEA is participating in that relate to collaboration and partnership. These efforts include developing a list of feasible regional projects or programs for prevention and recovery strategies for regional rivers; studying if water from specific wastewater treatment facilities could be used as an alternative water supply; and increasing recharge to the aquifer using excess flow from Black Creek.

| RWSP<br>Project<br>No. | District         | County | Project Type             | Project Name /<br>Description                                     | Project Status            | Estimated<br>Completion Date |
|------------------------|------------------|--------|--------------------------|---|---------------------------|------------------------------|
| 2017_195               | SJRWMD           | Clay   | Groundwater<br>Recharge  | Black Creek WRD<br>Project  | Construction/<br>Underway | 2024                         |
| 2023_12                | SJRWMD/<br>SRWMD | TBD    | Groundwater<br>Recharge  | North Florida RWSP<br>Project<br>Conceptualization<br>Partnership | Proposed                  | 2024                         |
| 2023_49                | SJRWMD           | Duval  | Technology<br>Evaluation | JEA Ozone-Wetland<br>Treatment Pilot Testing                      | Design                    | 2026                         |

Table 11: Collaborative Water Conservation and Conceptual Project OptionsSource: 2023 North Florida Regional Water Supply Plan, Appendix K, Tables K2 and K4

### **APPENDIX 1**

# Project Options Tables from the 2023 North Florida Regional Water Supply Plan (Appendix K)

Note: Yellow-highlight shows projects listed in the proposed JEA capital improvements projects list (Refer to Appendix 3 of this plan).

| 000'   |   |   |  |  |  |  |  |   |   |  |  |   |  |   |  |  |  |   |  |   |
|--|---|---|--|--|--|--|--|---|---|--|--|---|--|---|--|--|--|---|--|---|
| Unit Cost (\$/1,000<br>calines)  | \$1.80  | \$2.50  | 20.47  | \$3.29   | \$1.75   | N  | N  | Ň   | NA  | \$6.87   | N  | \$1.15  | \$0.0\$  | M   | \$3.56   | \$0.40   | \$0.69   | \$13.39   | \$17.86  | \$1.15  |
| Estimated Arrual   |   | \$0.004   | \$0.050  | 10.01  | \$00.05  | \$0.183  | \$0.23   | \$0.00  | \$0.00  | \$1.91   | \$0.26   | \$0.81  | \$0.00   | \$0.01  | \$0.001  | \$0.004  | \$0.004  | \$0.001   | \$0.001  | \$0.004   |
| Total Capital Cost   | \$123   | \$1.50  | \$1.80   | \$6.50   | \$5.00   | \$100.00   | \$13.11  | \$8.51  | <b>\$8.51</b>   | \$70.58  | \$6.37   | \$6.18  | \$0.68   | 82.80   | \$4.00   | \$40.00  | \$17.35  | \$15.10   | \$10.06  | \$111.00  |
| Storage Capacity<br>Increased (MG)   | NA  | ¥   | M  | W  | ž  | ¥  | ž  | ž   | NA  | ¥  | ž  | NA  | ş  | N   | NA   | MA   | NA   | ¥.  | N  | ž   |
| Estimated Benefit (mod)  |   | 0.11  | 1.00   | 0.35   | 0.50   | 1.0-2.0  | 5.60   | 20-3.0  | Ň   | 1.50   | 0.75   | 2.30  | 1.00   | 2.00  | 0.12   | 12.00  | 3.00   | 0.12  | 0.06   | 17.00   |
| Estimated<br>Completion Date   | 2030  | 2035  | 2026   | 2045   | 2040   | 2035   | 2029   | 2025  | 2029  | 2024   | 2024   | 2024  | 2024   | 2025  | 2030   | 2025   | 2026   | 2025  | 2026   | 2027  |
| Project Status   |   | Proposed  | Proposed   | Feasibility<br>Review  | Feasibility<br>Review  | Feasibility<br>Review  | Planning   | Planning  | Design  | Construction/<br>Underway  | Construction/<br>Underway                        | Construction/<br>Underway   | Plaming  | Plaming   | Planning   | Construction/<br>Underway  | Design   | Planning  | Planning   | Plaming   |
| Project Description  | This project includes expansion of reclaimed water distribution system pipelires in<br>Phyain southistion to offset use of potable water for imgation. Related to Project No.<br>2023 so. | This project consists of expansion of rectaimed water distribution system pipelines<br>to offset use of potable worker for industrial cooling and impation in the innovation<br>District as it develops. RICW comes from MISWRF (rather than from KWRF) | This project consists of an extension of RCW transmission and distribution to future<br>IF cont Course and includes upgrades to RCW pump station and RCW<br>transmission backtorie which is needed to support this project. Project site has not<br>been identified. | This project consists of potential future expansion of RCW distribution system into<br>new neighborhoods | This groups consists of a true Karape limit releaded to support tublout of the<br>providence of RNU hits future new neighborhoods. Conservativity: Beenth<br>rowmishy estimated at 500.000 groups called on the approximate ann of the volume<br>throm the 2 projects this project support (RSA) m RXV groups and on RAV or<br>Expression to New Neighborhoods. Realed to Project No. 2017 19. | Restamme wake storget in the project consists of exation were waither storget<br>be used cuing of yeason pass demand. Conceptual project assumes one or<br>more large storget protect (60-200 Mo) for seasons isorget of surpus rectained<br>water (- months) to meet peak demand shortages at a minimum of 1 mgd delvery<br>hom protects. | Recamend estruction resupe - This proper consists of even recarmed pround<br>competence that over the years (5.6 million galations trad) Additional recarmed strange<br>capacity will allow the utility to store more tradied water during peak hours rather<br>than discongreging to such are water. This will also reduce the use of augmentation<br>weil and machinge the use of FEIBs. | Transmission system (pricination to manuale serve elevate) - This project consist<br>of structures systems (in contraction mit the feasimed contraction and<br>distructures) systems (in contraction mit the feasimed contraction and<br>distructures) systems (in contraction mit the feasimed contraction and<br>distructures) with a fully to struct more the sale water during peak hours<br>adjunction will and mitmaine the use of the press<br>adjunction will and mitmaine the use of the press<br>adjunction will and mitmaine the use of the press<br>framewise on solutions theread will produce to be added<br>from an approximately the use will be indived the decide<br>framewise solutions alreadicat reuse by the end of the decide<br>the structure of additional beneficial reuse by the end of the decide | This project will expand the reclamed distribution system with over six miles of new<br>reclaimed distribution mains in the Lake Asbury Mastler Planned Area (LAMPA). The<br>expansion is expected to serve the equivalent of an additional 8,000+ single tamily<br>residences. | This protect contests of a new 15 MOD AMDE Andonesis Uniter Remond. WF<br>protein graditic address quality restained states. 15 MOD Met waither atorque<br>protein graditic address quality restained sugressing of a MOD MOD RIS for<br>addressing and antice areas. The freest or free and for metal or MOD RIS for<br>corrector Park Residence and the metal or metal or mode and<br>corrector Park Residence and the metal or mode and the corrector<br>for antice and the metal or mode and we approximately 50,000 EVGs at<br>loading residence and metal and the mode and protection of the transfer<br>transfer are expanded. For 2022, 2 and 2022, 10 |  | high  | This growth and gottimes of reclarmed value epison by use of CSCMA and<br>programming impowerents to the reclaimed distruction system. These<br>programming introvale operations caranges and immaturume addrons is g<br>addrons from meters to induse operations the use of reclaimed water and recluse the use of<br>while from aurometicon weils. | This project consists of a 2.0 Micc) water reclamation facility filter expansion to<br>export increased recaimed water demands (project combined with SMDE -<br>Anington East With F. Recaimed Water and Distinfection System Upgrades).<br>Related to Froject No. 2017. 62 | This project will install 5,000 feet of 30" reciaimed water main to serve as a<br>transmission pipeline. | This project consists of 12.0 MG in storage tarks and high service pumps. Related<br>to Project No. 2017_67 and 2023_31. | This project consists of a 3.0 MG storage tank and high service pumps. | This project will install 13,700 feet of 30° rectaimed water main to serve as a transmission piperne. | This project will install 7,500 feet of 20" reclaimed water main to serve as a<br>transmission pipeline. Realed to Project No. 2023_29 | This project will increase the rectained water production capacity from 8 to 25 mgd<br>at the SWDE-Artington East WFF. Related to Project No. 2023, 39. |
| Implementing Agency<br>or Entity   | GRU   | GRU   | GRU  | GRU  | GRU  | COLA   | COUN   | COUR  | COUN  | COLA   | COLA   | COUN  | COLA   | <b>JEA</b>  | JEA  | JEA  | JEA  | JEA   | <b>JEA</b>   | <b>JEA</b>  |
| Project Name/Description (two Ir<br>columns if needed)   | Brytan subdivision Reciaimed<br>Water system expansion  | Innovation District Reclaimed<br>Viater system expansion  | RCW Extension to Future<br>University of Florida Goff Course   | Rectaimed Water System<br>Expansion into New Neighborhoods   | RCW Storage Tark & Pumping<br>Upgrade  | Regional Reclaimed Storage<br>Reservoir (build as 200M/G)  | Recialmed Storage Tanks  | Recisimed Transmission<br>Optimization for Isolation Projects   | Lake Asbury Reclaimed Mains<br>Expansion  | Peters Creek WRF, Ponds,<br>Reclaimed Strage 8, Pipeline<br>(formenty Sreen Cove Regional<br>RW WTP)   | Governor's Park Reclaimed<br>Storage and Pumping | Saratoga Springs Reciaimed<br>augmentation well, Storage and<br>Pumping | Redaimed SCADA System<br>Optimization  | Adington East WHF - Reclaimed<br>Water Filtration Expansion -<br>Increase Capacity from 8.0 to 10.0<br>MGD  | SEQ to Gate Parkway - Trans -<br>New - R   | Greenland Rectaimed Water<br>Repump Fadilty - Storage Tank<br>and Booster Pump Station                                   | Ridenour WTP - Reclaimed Water<br>Storage and Repump                   | Davis - Gale Pikny to RG Skinner -<br>Reclaimed Water System<br>Expansion                             | Monument Rd - Artington East<br>WRF to St Johns Bluff Rd -<br>Rectaimed Water System<br>Extransion                                     | SWDE - Artington East WRF -<br>Reclaimed Water and Distrifection<br>System Uporades   |
| Project Type   | Reclaimed Water (for potable offiset)   | Recialmed Water (for potable offset)  | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)   | Reclaimed Water (for polable offset)  | Reclaimed Water (for potable offset)  | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)             | Reclaimed Water (for potable offset)                                    | Reclaimed Water (for potable offset)   | Recialmed Water (for polable offset)  | Reclaimed Water (for potable offset)   | Reclaimed Water (for polable offset)   | Reciaimed Water (for potable offset)                                   | Reclaimed Water (for potable offset)  | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)  |
| County   | Alachua   | Alachua   | Alachua  | Alachua  | Alachua  | Clay   | Clay   | Clay  | Clay  | Clay   | Clay   | Cay   | Cay  | Duval   | Duval  | Duval  | Duval  | Duval   | Duval  | Duval   |
| Project Options<br>District  | SURWIND   | SURWIND   | SJRWMD   | SJRWMD   | SJRWMD   | SJRWMD   | SJRWMD   | SURWAD  | SJRWMD  | SJRWMD   | SJRWMD   | SJRWMD  | SJRWMD   | SJRWMD  | SJRWMD   | SJRWMD   | SJRWMD   | SJRWMD  | SURWIND  | SJRWMD  |
| Table K1. Water Supply Development Project Options<br>RWSP DEP Project ID District<br>Privied ND | M   | ¥   | W  | M  | ¥N.  | W  | W  | ¥   | M   | W  | W  | N   | ¥  | W   | NA   | NA   | N  | M   | N  | ¥   |
| RWSP<br>Protect No   | 2017_19   | 2017_20   | 2023_26  | 2017_23  | 2023_28  | 2023_2   | 2023_3   | 2023_4  | 2017_27   | 2017_23  | 2023_10  | 2023_11   | 2023_17  | 2023_29   | - 2023_42  | <b>J</b> <sup>6017_45</sup>  | 2017_49  | 12017_56  | 2017_62  | 2023_33   |
|  |   |   |  |  |  |  |  |   |   |  |  |   | П  | age   |  | 27   |  | _   | 68   |   |

| 25         | Imated Armual Unit Cost<br>OSM (5M) galo   | \$0.001 \$59   | \$0,005 \$0,0                          | \$0.020 \$0.1   |                                   |
|------------|--|--|--|---|-----------------------------------|
| April 2025 | Estimated Benefit Storage Capacity Total Capital Cost Estimated Amual Unit Cost<br>(mod) horeased(Mic) (\$M) Cost Cabital Capital Cost | \$33.80  | 17.15                                  | \$10.00   |                                   |
|            | Storage Capacity<br>Increased (MG)   | NA   | NA                                     | NA  |                                   |
|            | Estimated Benefit<br>(mqd)   | 0.06   | 1.44                                   | 2.16  |                                   |
|            | Estimated<br>Completion Date   | 2023   | 2023                                   | 2025  |                                   |
|            | Project Status   | Construction/<br>Underway                                  | Construction/<br>Underway              | Construction/<br>Underway   | Contraction                       |
|            | escription   | edialmed water main to serve as a No. 2017_45 and 2023_31. | tank and 1,000 gpm high service pumps. | D M/G storage tank, 1,500 gpm high<br>tion (estimated cost is for the RW<br>aled to Project No. 2023 35 | of almost under main to example a |

| -  |   | -  |   | -   | -   | -   | _   | <u> </u>  | -  |  |   | <u> </u>  | -  | -  | -  |  |  | <u> </u>   | <u> </u>  | <u> </u>  | <u> </u>   | ·  | -  | -  |   |  |
|--|---|--|---|---|---|---|---|---|--|--|---|---|--|--|--|--|--|--|---|---|--|--|--|--|---|--|
| Unit Cost (\$11,000 gallons)                     | \$59,89   | \$0.61   | \$0.57                                      | \$2.66  | \$18.60   | 12:05   | \$0.54  | 54.63   | \$17.85  | \$13.56  | 514.54  | 27.60   | \$0.88   | \$17.11  | \$6.86   | \$0.50   | \$0.81   | \$0.58   | \$2.95  | \$7.92  | \$4.38   | 00155  | \$17.27  | \$37.47  | 222   | \$1.11   |
| Estimated Annual<br>O&M (\$M)                    | \$0.001   | \$0.005  | \$0.020                                     | \$0.001   | \$0.001   | \$0.002   | \$0.002   | \$0.001   | \$0.001  | 50.001   | \$0.001   | \$0.001   | \$0.004  | \$0.001  | \$0.001  | \$0.78D  | TBO  | TBO  | TBO   | TBO   | TBO  | \$0.103  | \$0.50   | \$0.08   | \$0.800   | \$0.026  |
| Total Capital Cost<br>(\$M)                      | \$33.80   | 12.15  | \$10.00                                     | \$1.48  | \$6.63  | \$12.00   | 20.02   | <b>56.05</b>  | 53.34  | 57.63  | \$8.19  | 54.27   | \$30.00  | \$10.37  | \$5.00   | 8  | \$11.00  | 88.00  | \$128.00  | \$196.00  | \$20.00  | 07'95  | \$27.00  | \$3.24   | 83.40   | 8  |
| Storage Capacity<br>Increased (MG)               | NA  | NA   | NA  | M   | NA  | NA  | ¥1  | N   | ¥  | N  | ž   | M   | ž  | NA   | NA   | W  | N  | ¥  | ¥.  | M   | ¥.   | ž  | ¥  | N  | N   | ž  |
| (mgd)  | 0.06  | 1.44   | 2.16  | 0.06  | 0.0t  | 2.00  | 2.00  | 0.16  | 0.02   | 900  | 0.06  | 90.06   | 6.00   | 3.50   | 0.08   | 0.57   | 1.8  | 225  | 5.75  | 2.75  | 2.00   | 0.40   | 0.25   | 0.01   | 8   | 0.24   |
| Completion Date                                  | 2023  | 2023   | 2025  | 2025  | 2023  | 2027  | 2023  | 2026  | 2024   | 2029   | 2027  | 2028  | 2027   | 2026   | 2028   | 2024   | 2025   | 2027   | 2030  | 2025  | 2025   | 2033   | 2024   | 2024   | 2025  | 2026   |
| Project Status                                   | Construction/<br>Underway   | Construction/<br>Underway  | Construction/<br>Underway                   | Construction/<br>Underway   | Construction/<br>Underway                                     | Planning  | Construction/<br>Underway   | Plaming   | Construction/<br>Underway  | Planing  | Planning  | Planning  | Planning   | Planning   | Planning   | Design   | Design   | Planning   | Plaming   | Construction/<br>Underway   | Construction/<br>Underway  | Design   | Design   | Design   | Design  | Plaming  |
| Project Description                              | This project will install 30,000 feet of 20' reclaimed water main to serve as a<br>transmission pipeline. Related to Project No. 2017 45 and 2023 31. | This project consists of a 1.5 MG storage tank and 1,000 gpm high service pumps.     | -   | This project will install 1,700 feet of 20° reclaimed water main to serve as a<br>transmission pipeline. Related to Project No. 2017 77 |   | of a 2.0 MG storage tank and high service pumps.  | This project consists of a 2.0 Mga storage tank and high service pumps. Related to<br>Project Nois 2017_45 and 2017_67. | This project will install 11,600 feet of 30° and 2,300 feet of 16° rectaimed water main<br>to serve as a transmission pipeline. | This project will install 7,400 feet of 12" redaimed water main to serve as a transmission pipeline. | This project will install 12,000 feet of 20° recarmed water main to serve as a<br>transmission pipeline. Related to Project No. 2017_14. | This project will install 13,500 feet of 20" reclaimed water main to serve as a transmission pipeline | This project will install 12,000 feet of 20" restained water main to serve as a<br>transmission pipeline. Related to Project No. 2017_93. | This project will add 6 MG of storage and pumping. Related to Project No. 2023_43. | This project will construct a new 3.5 MG storage tank. | This project will install 11,000 feet of 24" reclaimed water main to serve as a<br>transmission obeine. Related to Project No. 2023 27 | Construction of Segarations 11, 200 Kets Carl and Segarate County<br>and 2009 In two segments, The intra segments to connect to existing<br>intractionate between 515 and international contract to be existing<br>transform the WWWHF Facility north to connect to the aveing Flexime main. In<br>segment, Project height carling cost to connect to the aveing Flexime main<br>Strame. Project height carling cost to connect to the aveing Flexime main<br>strame. Project height carling cost to the aveing Flexime main<br>strame. Project height carling cost to the aveing Flexime main<br>transment Plant to MII Creek, a thrutang of Stri Mile Creek and the lower St. Jonne<br>Transment Plant to MII Creek, a thrutang of Stri Mile Creek and the lower St. Jonne | Project to regisse approximately 6.7 milles of existing 8-inch reuse main with a rew<br>16-inch and 20-inch reuse main aung State Rd 16 to facilitate transmission of reuse<br>the between the St 16 WRF and the NW WRF grids. Project currently being<br>advertised for design build. | Installation of reuse infrastructure including Fitzation. Transmission infrastructure,<br>Storage, Booster Pamys, and Augmentation sources which will be installed in<br>those prease of the development. Project supplies reclaimed water to Northwest<br>Service area and Stivenset DRI. | Expansion of NW WRF from 3.75 MGD to 7.5 MGD and Construction of AWS<br>Satity near Trout Creek to augment and support Stivefield and NW reclaimed<br>valier Service area | Construction to expand existing SR 207 WWTP into a 3.25 MGD facility with the<br>Inter to powde reclamed water to nearly new developments. Project creates a<br>fund for reclamed water service to connotiv with SB 64. | Construction of approximately 8 miles of reuse transmission main (24'20') to<br>connect the new SR 20' WFF to the NW and SR 16 reuse grids. Project is required<br>to comput with SB 64. | Expansion of reclaimed water distribution system pipelines in Otamont Subofvison<br>to other use of potable water for impation. Interest additional transmission and<br>stroage/pumping Datilities to fractificate addition of groundwater rectarge wetands.<br>This project inhouse all phases of the Cambrid Subofvison project. | Rebroft proposed WWTF to meet AWT for future Public Access Reuse (PAR) | Construct extensions to the Live Oak wastewater collection infrastructure which will<br>provide additional reuse | Funding for this Phase I will complete a feasibility study, design, and permiting for<br>construction of an AWTF: storage surge tank, and wetand that will utimizate be<br>been bounded over three<br>houses. | This project will augment the reclaimed water supply by harvesting stormwater from<br>CLUA WFFS with existing stormwater research prodoces. Freeling and supply UACUN;<br>Milles Street, Rickaught and Spences Crossing, Harveske stormwater would be<br>pumped to the onsile facility and treated to public accesse reuse standards before<br>pumped to the onsile facility and treated to public accesse reuse standards before<br>and the standards and the stated to public accesses reuse standards before<br>and the standards and the stated to public accesses reuse standards before<br>and the standards before<br>and the standards and the stated to public accesses reuse standards before<br>accesses and the stated and accesses accesses reuse accesses access |
| imprementing Agency<br>or Entity                 | JEA   | JEA  | JEA   | JEA   | JEA   | JEA   | JEA   | <b>B</b>  | <mark>15</mark>  | JEA  | JEA   | <mark>ъ</mark>  | <b>JEA</b>   | <b>JEA</b>   | 1<br>E<br>A  | sucro  | sicup  | sicup  | sucup   | sucup   | sucup  | GRU  | Columbia County  | Live Oak, City of  | Lake Butter, City of  | COLA   |
| Project Name/Description (two columns if needed) | us 1 - Greenland What to Crt 210 -<br>Rectaimed Water System<br>Ernansion   | Nassau Area - Radio Av -<br>Rectarmed Water Storage Tank<br>and Booster Pump Station | Nassau Regional WRF - Expansion<br>to 3 MGD | JP - Nassau - Chester Rid - David<br>Haliman to Pages Dairy Rd - R  | SR200 - Willam Burgess Blvd to<br>Police Lodge Rd - Trans - R | RiverTown WTP - New Storage<br>and Pumping System | Twin Creeks Reclaimed Water<br>Storage Tank and Booster Pump<br>Station   | CR210 - Longleaf Pine Pixwy to<br>Shearwater - Reclaimed Water<br>System Excansion  | CR210 - South Hampton to<br>Shearwater - Trans - Rediaimed<br>Water System Expansion                 | CR210 - TWIN Creeks to Russell<br>Sampson Rd - Reclaimed Water<br>System Expansion   | Greenbriar Rid - Longlear Pine<br>Pkwy to Spring Haven Dr -<br>Recialmed Water System<br>Expansion    | Russell Sampson Rd - St. Johns<br>Pkwy to CR210 - Reciaimed Water<br>System Excansion   | Blacks Ford WRF - Expansion from<br>6 to 12 mod                                    | Nocatee North - Reciaim Water<br>Storage Tank          | Blacksford WRF to Veterans Pkwy<br>- Trans - RW  | CR 2209 Contract Reclaimed<br>Water System Expansion   | SR 16 Contdor Reuse<br>Transmission Main Expansion   | NV WRF Expansion & Silverteat<br>DRI Reuse System, Phase 1   | NW WRF Expansion & Silverleaf<br>DRI Reuse System, Phase 2  | SR 207 WRF Expansion  | SR 207 WRF Reuse Transmission<br>Mains   | Calimont Subdivision Rectaimed<br>Water System Expansion   | North Florida Mega Industrial Park                                     | Live Oak Reuse   | Lake Butter Wastewater Treatment<br>Facility AWT Upgrade Phase 1  | Onsite Stommater Harvesting at<br>WRFs   |
| Project Type                                     | Reclaimed Water (for potable offset)  | Reclaimed Water (for potable offset)   |   | Reclaimed Water (for<br>potable offset)   | Reclaimed Water (for<br>potable offset)                       | Reclaimed Water (for<br>potable offset)           | Rectaimed Water (for potable offset)  | Reclaimed Water (for potable offset)  | Reclaimed Water (for potable offset)   | Reclaimed Water (for potable offset)   | Reclaimed Water (for polable offset)  |   |  | Reclaimed Water (for<br>potable offset)                | Reclaimed Water (for<br>potable offset)  | Reclaimed Water (for potable offset)   | Reciaimed Water (for potable offset)   | Reclaimed Water (for polable offset)   | Reclaimed Water (for potable offset)  | Reclaimed Water (for potable offset)  | Reclaimed Water (for potable offset)   | Recialmed Water (for potable offset)   |  | Reclaimed Water (for<br>potable offset)  | ě   | Stormwater   |
| County   | DuvaliSt. Johns   | nessen   | Nassau                                      | nessen  | nessen  | St. Johns   | St. Johns   | St. Johns   | St. Johns  | St. Johns  | St. Johns   | St. Johns   | St. Johns  | St. Johns  | St. Johns  | Structure State  | St. Johns  | St. Johns  | St. Johns   | St. Johns   | St. Johns  | Alachua  | Columbia   | Suwannee   | Union   | Cai  |
| District   | SURWIND   | SJRWMD   | SJRWMD                                      | SJRWMD  | SJRWMD  | SJRWMD  | SJRWMD  | SJRWMD  | SJRWMD   | SJRWMD   | SJRWMD  | SURWIND   | SJRWMD   | SURWIND  | SJRWMD   | OWWARS   | SJRWMD   | SJRWMD   | SJRWMD  | SJRWMD  | SJRWMD   | SRWMD  | SRWMD  | SRWMD  | SRWMD   | SJRWMD   |
| Project No. DEP Project ID District Co           | M   | M  | W   | M   | N   | M   | N   | ¥   | ¥  | W  | W   | ¥   | M  | M  | M  | ž  | ¥  | ¥  | ¥   | ¥   | W  | SRIWSD0032C  | NA   | N  | SRIVS00141A   | ¥  |
| Project No.                                      | 2017_67   | 2017_76  | 2017_77                                     | 2023_35   | 2023_36   | 2017_87   | 2023_31   | 2017_89   | 2023_32  | 2017_93  | 2017_94   | 2017_104  | 2023_37  | 2023_38  | 2023_43  | 2017_109   | 2023_45  | 2023_46  | 2023_51   | 2017_129  | 2023_47  | 197  | Pa   | 1729   |   | hip:<br>8 oi   |

## 2024-2034 Water Supply Facilities Work Plan City of Jacksonville

| RWSP<br>Project No. | RWSP DEP Project ID District Co | District | County     | Project Type   | Project Name/Description (two<br>columns if needed)                                     | Implementing Agency<br>or Entity | Project Description   | Project Status                             | Estimated<br>Completion Date | Estimated Benefit<br>(mgd) | Storage Capacity<br>Increased (MG) | Total Capital Cost<br>(SM) | Estimated Arnual<br>O&M (SM) | Unit Cost (\$/1,000<br>gallons) |
|---------------------|---------------------------------|----------|------------|--|---|----------------------------------|---|--|------------------------------|----------------------------|------------------------------------|----------------------------|------------------------------|---------------------------------|
| 2003_5              | ¥                               | SJRWMD   | Clay       | Suntical Aquiter<br>Systemintermediate<br>Aquiter System Water<br>Sources  | Peters Creek-covernor's Park<br>Shalow Aguter Augmentation of<br>Recamed Water Supply - | VICO                             | This projek will fullis: SAS ground waits and proceeder Repair Initiation Basin<br>(RIB) water to augment the recaimed suppy, particularly during peak demand<br>monts. Construction of SAS weak near Riss at Perior Oreak Waiter Recarandon<br>Facility E-VINE, and adorg the approximately Time transmotor pipeline<br>between Perior Cieva and doord the scatamend strange and puring sites<br>frank water with estimeted and doord the recaimed strange tarks or adorg the<br>recaimed transmission like. Recard do Derpick 2017, 201 | Feasibility<br>Review                      | 2032                         | 2.20                       | N                                  | \$13.60                    | \$0.33                       |                                 |
| 2023_13             | N                               | SJRWMD   | Cay        | Sundal Aquiter<br>SystemInternediate<br>Aquiter System Water<br>Sources    | Peters Creek WTP & Production<br>Weil # 3 -2.02 MGD Expansion                           | OCUA                             | This project consists of an expansion of the Peters Creek poliziole water distribution<br>facility which uses the SAS. A new 1,400 gpm well, 1.25 MG ground storage tank<br>and reared appurtenances will be added.   | n<br>Permtted                              | 2027                         | 2.02                       | M                                  | 878                        | \$0.71                       |                                 |
| 2023_14             | MA                              | SJRWMD   | Clay       | Sumicial Aquiter<br>System/intermediate<br>Aquiter System Water<br>Sources | Pler Station WTP Expansion  | COUN                             | This project consists of a an expansion of the Pier Station potable WTP as growth in<br>area occurs. This WTP uses the SAS as its source water.   | Ir Planning                                | 2026                         | 0.25                       | NA                                 | 87.70                      | \$0.09                       |                                 |
| 2023_15             | NA                              | SJRWMD   | Clay       | Sumdaal Aquifer<br>SystemIntermediate<br>Aquifer System Water<br>Sources   | Governor's Park WTP   | COUN                             | This project consists of a new potable water treatment and distribution faulity to<br>eave the Coventor's Park service area. The faulity will include two new dual zone<br>(SAS and IAS), 1,770 gpm wells, a 0.500 MG ground storage tank, high service<br>pump station and related aptoriferances.   | Design                                     | 2025                         | 0:50                       | NA                                 | 00°6\$                     | \$0.18                       |                                 |
| 2023_50             | NA                              | SJRWMD   | St. Johns  | Reclaimed Water (for<br>potable offset)                                    | Reclaimed Water (for Au WWTP Reclaimed Process<br>potable offset) Improvements          | SUCUD                            | Upgrade treatment process to supply 100% public-access reuse  | Planning                                   | 2032                         | 2.00                       | NA                                 | \$25.00                    | TBO                          | \$1.39                          |
| 2017_117            | N.                              | SJRWMD   | Str. Johns | Weifield Optimization  | CR 214 Water Biending Station<br>(NW to Maintand PWS 2 M/GD<br>Transfer)                | sucue                            | This project antimprove water calling the FC 12 VTH rs By 20 confloring of the<br>water transferred from the NW CHD that is biended and distributed into the Maintain<br>Vurser System Froyect heigh on the growing the granted and the sustain water<br>quality in the Timan Roge wetfield. Finale i for a 1 mgd Biending Station is<br>comprete Finale into transfer and of frow froutilized by CR 205 Booster and NW<br>VTP Prip expansion is incroredes.  | Construction/<br>Construction/<br>Underway | 2023                         | 0.0                        | ž                                  | 210.47                     | 180                          | \$0.74                          |
| Tablet              |                                 |          |            |  |   |                                  |   |  |                              |                            | ~ ~ ~                              |                            | 1 10                         | 10000                           |

s all project otal t ely, for the pur were assumed to be 1.5 mgd and 2.5 mgd. 2 and 2023 4 effts for project 2023 The estimated

308.01

1.061

Table K2. Water Resource Development Project Options

|            | Unit Cost (<br>gallor              | W   | \$0.1   |
|------------|------------------------------------|---|---|
| April 2025 | Estimated Annual<br>O&M (SM)       | NA  | \$0.20  |
| April      | Total Capital Cost<br>(5M)         | 00'F\$  | \$3.00  |
|            | Storage Capacity<br>Increased (MG) | M   | W   |
|            | Estimated Benefit<br>(mgd)         | 0.00  | 00.0  |
|            | Estimated<br>Completion Date       | 2024  | 2025  |
|            | Project<br>Status                  | Construction/<br>Underway   | planing   |
|            | Project Description                | aises and feasibility studies including treatment wetlands and<br>trematives. | Backbone improvement project is a necessary component to<br>the NMF FVP yumping station and transmission pipetier to 6<br>poport Project No. 2003, 20 GW Rechtage Weatand Prakes 2 (2<br>2023, 25 Recht Verbenston Fortune III's Good Course (1 mg0), and<br>21 Founde GW Rechtage Weatands (5 mg0). The actual Benefit for |

| NA   | \$0.14   | \$0.59  | \$0.88  | 82.80   | \$6.01   | <b>\$9.66</b>   | 80.90   | 180  | TBO   | \$0.05   | \$2.92   | TBO  | \$0.05  | \$4.73   | \$8.33   | <b>56.60</b>  |
|--|--|---|---|---|--|---|---|--|---|--|--|--|---|--|--|---|
| M  | \$0.20   | \$0.10  | \$0.30  | \$5.00  | \$0.38   | \$1.20  | \$0.20  | TBD  | TBD   | \$0.0\$  | \$0.025  | TBD  | \$0.003   | \$1.16   | \$0.019  | \$0.025   |
| 878  | \$3.00   | \$5.00  | \$20.00   | \$100.00  | \$11.10  | \$12.35   | \$12.00   | \$54.00  | \$35.00   | \$0.50   | \$6.10   | \$5.26   | \$0.70  | \$2.25   | \$284.00   | 00:00055  |
| NA   | ¥  | NA  | M   | ž   | NA   | NA  | NA  | N  | N   | NA   | NA   | N  | ¥   | ¥  | NA   | N   |
| 0.00   | 00.0   | 2.00  | 5.00  | 8.04  | 0.30   | 0.48  | 3.00  | 00.6   | 2.50  | 0.20   | 0.23   | 0.0  | 2.00  | 1.00   | 6.00   | 8.00  |
| 2024   | 2025   | 2034  | 2040  | 2024  | 2027   | 2024  | 2026  | 2045   | 2045  | 2045   | 2026   | 2026   | 2045  | 2038   | 2031   | 2031  |
| Construction/<br>Underway  | Planning   | Planning  | Feasibility<br>Review   | Construction/<br>Underway   | Feasibility<br>Review  | Construction/<br>Underway   | Design  | Proposed   | Proposed  | Proposed   | Construction/<br>Underway  | Design   | Proposed  | Feasibility<br>Review  | Design   | Planning  |
| Conduct AVTE analysis and feasibility studies including treatment weltands and reclaimed water alternatives. | The Transmission Baaktone improvement project is a necessary component to<br>increase apply of the NMT FOV pumping starth and transmission pipeline to 6<br>mgd in Order to support Project No. 2023, 26 OK Rechtarge Wetland Phase 2 (2<br>mgd): Project No. 2023, 26 future GW Rechtarge Wetlands (2 mgd): and<br>Project No. 2023, 27 future GW Rechtarge Wetlands (2 mgd): The acutal benefit for<br>they project as noted above. Unit production todies of mgd): and<br>in the related projects as noted above. Unit production nodels for this project were<br>calculated based on the 5 mgd of transmission notation. | This project consists of Phase 2 of the recharge wetland using RCW from Kanapaha<br>WerF on the 75 as the that was purchased in Phase 1. RCW Promp Station and<br>Transmission Backbone Improvement needed to support this project. Related to<br>Project No. 233   | This project will recharge groundwater using RCW. Project site not loentified. May<br>be co-located with UF Gords. Course: North Pamp Station and Transmission Baabone<br>Improvement needed to support this project.   | The primary goal of the Bluek Creek Water Resource Development Project is to<br>increase resolve both with in normaast frequent samples down from flack<br>Creek. The project will other up to 10 mg0 throm the Sount Fork for Creek<br>outing waterwaters in gin from section. Diversion will not be adde when there is<br>sufficient from available to ensure the projection of natural resources within the<br>creek. The water will be primary from gin at throm statement to available to ensure the projection of natural resources within the<br>creek. The water will be primary from gin at throm statement of<br>discharging into Alligator Creek. Alligator Creek from and the conton.   | T this project consists of a new or expanded groundwater recharge plant in the<br>K-systone Harpitis capacito of the trangt to 0.030 model of increasing wastewater<br>flows from residential, commercial, and industrial wastewater   |   | This project consists of Phase 1 of constructing a groundwater recharge wetland<br>using RCW from Kanapaha WRF on 75-acre site. Retailed to Project No. 2023_20.  | This project inforces on establing a Emerando to Imperiment silviouthural<br>management practices on toesteel ands to benefit the MFFWOF and additional<br>areas benefiting offs. Reducing treat exploratioptation (ET) win result in<br>increased application (ET) win result in<br>increased applications.   | This project will evaluate methods to enhance the beneficial use of stormwater. A<br>evenes of studies are unnerway to provide strange and recharge options to support<br>LEFER Recovery Strategy. Linked to conceptual projects 358, 359, 360, 361, 362, 362, 362, 362, 362, 362, 362, 364, 365, 365, 365, 365, 365, 365, 365, 365   | Redirect flow to a natural sink.   | Convert the Steedy sprayfield to a created treatment wetand to reduce nutrients<br>and provide recharge  | Less-than-free simple acquisition (conservation easement) of approximately 2.742<br>areas within the Devicer East comp (offse) First moder the State First Easin<br>Management Action Far. This property accounts for about 2% of the state<br>of the Device Complex FFA Approximately 75 of the property is considered to<br>the how Flog reducery value with the remaining portion of the property being ether<br>medun-high of non-meduan. The project consists of easen in information<br>complex transactions. Currently the property is used of time-<br>floatings constraints. The project consists of easen in information<br>complex transactions. Currently the property is used of time-<br>ter conservation easement will be monitored by FNUC.  | This project concept is to replace two 12-inch drainage weits to provide recharge to<br>the UFA and onco protection the Augard and Bart. The weils and allow up to 2.<br>MOSO of ratural aquifer recharge to the Lypee Fordian apulter and the prevental for<br>increases recarging communities. Positive framative water supplies from the<br>City of Lapper and surrunding communities. Positive frows into the weils will provide<br>a denefit to springs Along the Upper Custamente River.  | This project consists of an IPR Plant Including recharge wells (1 mgd). Rectaimed<br>water will be treated to potable standards, and used to directly recharge the UFA<br>(IPR). This project is related to a demonstration project (Project No 2023_8).   | This project consists of a 6.0 mgd water purification facility (capacity conceptual,<br>subject to charge) and UFA Recharge Wells. Discribinge will be used to replenish the<br>aquifier (related to Project No. 2023, 33).  | This project consists of a 5.0 mgd wäter purification facility (capacity conceptual,<br>subject to change) and UFA Recharge Wells. Discharge will be used to reprenish the<br>aquifer.  |
| Local Governments,<br>Water Authorities,<br>Wastewater<br>Treatment Facilities                               | GRU  | GRU   | GRU   | SJRWMD / JEA,<br>COUA, SJCUD, GRU<br>and other local<br>cooperations  | COUA   | City of High Springs  | GRU   | SRWMD  | SRWMD   | SRWMD  | Lake City, City of   | FWC  | GRWMD   | COUA   | JEA  | JEA   |
| Atternative Water Supply<br>Feasibility Studies  | GRU KWRF RCW Pump<br>Gation and Transmission<br>Backtone Improvement   | Groundwater Recharge<br>Wetland Phase 2   | Future Groundwater Recharge<br>Project  | Black Creek WRD Project   | Keystone WMTP and RIB<br>Expansion   | Infiltrative Wetlands for WWTF<br>Effluent Treatment Disposal   | Groundwater Recharge<br>Wetland Phase 1 (Southwest<br>Nature Park)  | Ecosystem Services   | Upper Santa Fe Stormwater<br>Capture Project  | Brooks Sink Ph II  | Lake City Recharge wetland<br>expansion  | Devits Ear Spring Recharge<br>Land Application Project   | Hamilton County Aquifer<br>Recharge Replacement Wells<br>and Water Quality<br>Improvement   | Indrect Potable Reuse  | SWDE - Arington East WRF<br>Purtication Facility   | SWDE - Southwest WRF<br>Purtication Facility  |
| Data Collection<br>and Evaluation  | Groundwater<br>Recharge  | Groundwater<br>Recharge   | Groundwater<br>Recharge   | Groundwater<br>Recharge   | Groundwater<br>Recharge  | Groundwater<br>Recharge   | Groundwater<br>Recharge   | Groundwater<br>Recharge  | Groundwater<br>Recharge   | Groundwater<br>Recharge  | Groundwater<br>Recharge  | Groundwater<br>Recharge  | Groundwater<br>Recharge   | Indirect Potable<br>Reuse  | Indirect Potable<br>Reuse  | Indrect Potable<br>Reuse  |
| Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union                                   | Alachua  | Alachua   | Alachua   | Clay  | Clay   | Alachua   | Alachua   | Alachua, Bradford,<br>Columbia, Glichrist,<br>Hamiton, Suwannee,<br>Union  | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union  | Bradford   | Columbia   | Gichrist County  | Hamilton  | <b>VEID</b>  | Duva   | Duva  |
| SRVMD  | CIWMAINS   | SJRWMD  | SJRWMD  | OWWD  | SJRWMD   | SRVMD   | SRVMD   | SRWMD  | SRWMD   | SRWMD  | SRVMD  | SRWMD  | SRWND   | SJRWMD   | SURWIND  | SJRWMD  |
| SRW500156A   | W  | NA  | M   | ž   | NA   | SRWS00076A  | SRW/S00129B   | Ň  | ¥   | SRWS00092A   | NA   | SRW500149A   | SRWS00147A  | M  | N  | M   |
| SRWS   |  |   |   |   |  |   |   |  |   | 0  |  |  | <u> </u>  |  |  |   |
|  | StrVMD Addrust, Silandrott, Data Collection Attemative Water Manoffees, Conduct AVITF analysis and fasetbility studies including treatment wetlands and Construction <sup>1</sup> 2024 0.00 NA 54.00 NA 54.00 NA temptor, Sumannee, and Evaluation Feastbility Studies Treatment settlands and exact alternatives.   | Servival<br>and Machinal<br>Haumton, Suparameter,<br>and Exaultation<br>Haumton, Suparameter,<br>and Exaultation<br>Haumton, Suparameter,<br>and Exaultation<br>Haumton, Suparameter,<br>Machinal<br>Anachua<br>Reconage<br>Anachua<br>Reconage<br>Anachua<br>Reconage<br>Backdone Improvement<br>Reconage<br>Backdone Improvement<br>Reconage<br>Backd | Servival<br>Automatical<br>Hunton, Supprint,<br>and Evaluation<br>Hunton,<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Automatical<br>Autom | Servival         Machinal Signation<br>and Machinal Signation<br>Hamitory, Suparameter,<br>and Evaluation<br>Hamitory, Suparameter,<br>Hamitory, Suparameter,<br>Hamitory | CHUND         Currents, Control, Currents, Control, Contrela (Control, Control, Control, | CHUND         CHRUND, Submitte,<br>Unstantion, Submitte,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantion,<br>Unstantin<br>Unstantin<br>Unstantion,<br>Unstantin<br>Unstantion,<br>Unstantion,<br>Unstanti | ServiceControl Bording<br>Autorial Bording<br>Autorial Bording<br>Bording<br>ManufactionResearch Bording<br>Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>BordingResearch Bording<br>Bording<br>BordingResearch Bording<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>BordingResearch<br>Bording | StructureControl modelMeride for otherMeride for oth | FortionMonth and Month<br>and Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br>Month<br> | FormExampleResultResul | FunctionExampleControlNumberControlNumberControlNumber </td <td>FunctionRestruction&lt;</td> <td>UnitedUnite</td> <td>1000</td> <td>1         0.000         0.0000</td> <td>(1)         (1)</td> | FunctionRestruction< | UnitedUnite | 1000 | 1         0.000         0.0000 | (1)         (1) |

| Table K2, Continued. | Table K2, Continued, Water Resource Development Project Options | levelopment Proj | ect Options  |                           |  |                                  |   |                           |                              |                            |                                    |                             |                              |                                 |
|----------------------|---|------------------|--|---------------------------|--|----------------------------------|---|---------------------------|------------------------------|----------------------------|------------------------------------|-----------------------------|------------------------------|---------------------------------|
| RWSP<br>Project No.  | DEP Project ID  | District         | County   | Project Type              | Project Name/Description (two Implementing Agency<br>oolumns if needed)  | Implementing Agency<br>or Entity | Project Description   | Project<br>Status         | Estimated<br>Completion Date | Estimated Benefit<br>(mgd) | Storage Capacity<br>Increased (MG) | Total Capital Cost<br>(\$M) | Estimated Annual<br>O&M (SM) | Unit Cost (\$/1,000<br>gallons) |
| 2023_41              | NA  | SJRWMD           | Duval  | Indirect Potable<br>Reuse | SWDE - Cedar Bay Purification<br>Facility  | JEA                              | This project consists of a 2.4 mgd water purification facility (capacity conceptual,<br>subject to change) and UFA Rechage Wells. Discharge will be used to replenish the<br>aquifer.   | Planning                  | 2031                         | 2.40                       | NA                                 | \$202.00                    | \$0.008                      | \$14.80                         |
| 365                  | NA  | SRWMD            | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union | Stormwater                | Dispersed Storage for<br>Recharge and Alternative<br>Water Supply  | SRWMD                            | This project variabase metabolis benchmode be herefocid use of stormwater with<br>a focus on retracting and enhancing stormwater management systems. This<br>beneficial use could be in the form of enhanced recharge and/or implementation of<br>storm pords or other storage as a alternative water supply. In primary benefit will<br>be capturing more stormwater as beneficial recharge and reciung rund. In some<br>cases, storment may also serve as an avairs of the fund and reciung<br>water source for an alternative  | Construction/<br>Underway | 2027                         | AN                         | 3.00                               | \$2.10                      | TBD                          | TBD                             |
| 1738                 | NA  | SRWMD            | Columbia   | Stormwater                | Quail Heights Regional Pond  | FDOT/Columbia<br>County          |   | Construction/<br>Underway | 2025                         | 0.03                       | NA                                 | \$8.95                      | \$0.001                      | \$35.60                         |
| 2023_8               | NA  | SJRWMD           | Clay   | Technology<br>Evaluation  | Mid-Clay WRF Potable Feuse<br>Pilot Demonstration  | CCUA                             | This is a plotesable postile reuse entomatismic project. A treat edimonstration<br>(Selify is seing constructed at the MACLIPW WFR. The sechnology train will be<br>BAFTO3, and will not produce a brine or reject stream needing disposal. Instead,<br>BAFTO3 will produce filter backward that will go back through anth headworks.<br>CULA will use the facility to elemenstrate the quality of ward that can be produced<br>(permiting oracity for operator training, and for public engagement. Related to<br>Project No. 3023. 6.   | Construction/<br>Underway | 2024                         | NA                         | NA                                 | \$4.54                      | \$0.90                       | NA                              |
| 2023_30              | NA  | SJRWMD           | Duval  | Technology<br>Evaluation  | Water Purification<br>Demonstration Facility<br>(previously named Water<br>Treatment Pilot/Demonstration<br>Phase 1 and 2) | JEA                              | This project is a purified water pilo, and demonstration project.   | Construction/<br>Underway | 2025                         | 1.00                       | NA                                 | \$72.51                     | \$0.003                      | \$12.75                         |
| 2023.49              | ¥   | SJRWMD           | Duval  | Technology<br>Evaluation  | JEA Ozone-Weitand Treatment JEA / SJRWMD /<br>Pilot Testing  | JEA / SJRWMD / DEP               | S.RYMDI is collaborating with JEA and FDEP on a pilot study project utilizing water<br>for future use of Buckman watewater instrument training WWTF) to actuate the potential<br>for future use of Buckman watewater instrument study. WWTF) to actuate the potential<br>the Buckman watewater instrument contains watewater idiosharpaire water supply.<br>Turnehe et al. Instrument struct for URA recharge and/or alternative water supply.<br>Turnehe of instrumtial customers. Front 'to innelementing a project for relating Buckman<br>WWTF effluent as a supply for aquifer recharge. a pilot study is necessary to<br>bettermine if preventing a process effective to heaking Buckman<br>elementials sufficiently to Stalitate assimilation of the organic continuinant of<br>constructions of the pilot wetched basins and apprimentatipilot components. A<br>minimum of control basins and apprimentatipilot components. A<br>designiferenticionstruct \$42.84 and 2.225 for monitoring and stratestabilish. Cost to<br>designiferenticionstruct \$50 min onthring banestabilish. Cost to<br>The project will begin design and permitting by October 1.2023. | Design                    | 2026                         | YN                         | AN<br>N                            | 59 B3                       | NA                           | ¥                               |
| Total                |   |                  |  |                           |  |                                  |   |                           |                              | 51.18                      | 3.00                               | \$1.152.18                  | \$9.58                       | \$106.91                        |

# 2024-2034 Water Supply Facilities Work Plan City of Jacksonville

|   | th Total Capital Cost Estimated Amrual Unit Cost (\$1,000<br>5) (SM) (SM) GAN (SM) galoros) | \$3.75 TBD  | \$2.50 TBD TBD  | \$2.38 TBD TBD   | \$1.80 \$0.005 \$1.99  | 05.55 50.60 \$5.55   | \$0.49 \$0.003 \$18.75   | \$16.40 \$0.20 \$3.45  | \$0.40 \$0.00 \$0.81   | \$0.11 \$0.00 \$0.43  | \$0.32 \$0.00 \$0.43  | \$2.00 \$0.40  | \$0.75 \$0.025 \$0.27   | 20.00 \$0.37  | \$0.18 \$0.18   | \$1.00 TBD \$0.24   | 61/65 \$0000 JZ ES  | \$4.80 \$0.005 \$268.79  | \$0.45 \$0.009 \$1.46                     | \$0.93 \$0.007 \$0.70   | \$1,60 \$0.014 \$17,58  |  |
|---|---|---|---|--|--|--|--|--|--|---|---|--|---|---|---|---|---|--|---|---|---|--|
|   | Estimated Benefit Storage Capacity (mgd)  | 3.00  | 2.55 NA   | 3.03 NA  | 029 NA   | D.45 NA  | 0.04 NA  | 1.00 NA  | 0.09 NA  | 0.04 NA   | 0.13 NA   | 0.80 NA  | 0.45 NA   | 127 NA  | 1.80 NA   | 1.55 NA   | DD1   | 0:00 NA  | 0.07 NA                                   | 020 NA  | 0.01 NA   |  |
|   | Estimated Estimation Date (m  | 2027 3  | 2026 2  | 2025   | 2026   | 2025   | 2026 0   | 2024   | 2023 0   | 2025 0  | 2035 0  | 2035 0   | 2024  | 2033  | 2025  | 2025  | 180   | 2027 0   | 2027                                      | 2030  | 2026  |  |
|   | Project<br>Status   | Construction/<br>Underway   | Construction/<br>Underway   | Construction/<br>Underway  | Construction/<br>Underway  | Construction/<br>Underway  | Plaming  | Construction/<br>Underway  | Construction/<br>Underway  | Design  | Proposed  | Feasibility<br>Review  | Construction/<br>Underway   | Feasibility<br>Review   | Construction/<br>Underway   | Construction/<br>Underway   | Construction/<br>Underway   | Planning   | Planning                                  | Construction/<br>Underway   | Construction/<br>Underway   |  |
|   | Project Description   | District wide Cost-share to reduce nutrient load and water usage in the BMAPs and<br>WRCAs. | Plot program for apricultural operations, landowners, counties and other, private<br>companies, and other entities within specific peopraphical areas to submit proposals<br>to reduce water use and improve water quality by recusing and removing nutrients | Incentivize stiviculture and tiral land conservation to reduce groundwater pumping<br>and ntrogen loading in the Middle Suwannee springshed. | Acquire acreage in the NFRWSP area to support MFL recovery and preserve land<br>use from development chandes. Remove adricultural infrastion well. | Conversion from grazing to free-stall barns to reduce nutrients and groundwater<br>pumping | Reduce water usage through the use of Smart soaker for cattle cooling. | This project will replace existing meters with smart meters that can help detect leaks<br>for the customers side of the meter, will also replacing service liaterals that are<br>made of polytochyters which are prove to leaking. | This project will replace existing large mellers with more accurate new meters.<br>Greater accuracy will promote conservation. | This project is Phase 2 of the Plumbing Retro-fit Program and will replace tollets,<br>sink aerators, and shower heads with low flow units. | This project is a future phase of the Plumbing Retro-fit Program and will replace<br>toilets, sink aerators, and shower heads with low flow units | This future project will implement cost effective projects that may include but are not<br>limited to public education, advanced metering, indoor purthing retordt, commercial<br>water efficiency programs and outdoor lingation efficiency programs. | This project will provide unitarines ann mater skrings looks by expanding the<br>capabilities of the existing yoursees Metering Immediature to Interease the Savings<br>realister through customer-dee nontroding of encodes of a sorticit<br>realister through customer-dee nontroding of encodes of a sorticit<br>realister through the Saving to Home and an other term interest, and the automated<br>system will see to use the sortic day they occur. Customeric can also gain imagine<br>the project to being performed in the part of a major Exist polation upgrade. | This projects a Demicrat Order Management programs comprise in which CULA<br>has developed a number of demicration defer management programs that can reduce<br>process and recommendance of these frongerums will be adding the CSM profilion over<br>the rack decade. Costs and waste saming short these programs occur over the entre<br>light of the program. Programs may mouse saming short these programs occur over the entre<br>high refrieting orders use machine may mouse sample remain (b) and<br>the second orders used in the program occur over the entre<br>high refrieting orders used in the machine and result in the<br>decident order more. | This is an on-going project to reduce demands through contrervation. Focus will<br>migation efficiency programs, and utilizing scill moissance exercise to restore<br>imgation efficiency programs, and utilizing scill moissance exercise to restore<br>imgation demands. Programs and projects will be evaluated using the HOD SAV tool | This project is part of the effort to optimize operation of the Northwest Weil Field in<br>accordance with SucciOrs Whiled optimized Plan. These Lot this project will<br>netal. VFD pump contois on new wells as part of the current expansion project.<br>Phase I will retro-fit existing versit, secarrise a 20% supply benefit. | This project in Pransie and 25 or donyone and editorulo repairingsonamint<br>entrol by the CUN. All prases have been designed, and Phase 1-5.5 Kinne been<br>constructed. The remaining portions of the water distribution system consists mostly<br>or approximately is (5.0) transie test or cast and and and sheed per Phatis over<br>60 years out and has subserved this weak. If the Project completion will conserve<br>previous water sources by significantly reducing water lasses and need for<br>theomet fusion. | Replacement of aging infrastructure to reduce water loss in the NFRWSP area. |   | Reduce groundwater pumping by connecting a shared water system at the GRU<br>power plants to conserve water | Acquire acreage in the NFRWSP area to support MFL recovery and preserve land<br>use from develooment changes. |  |
|   | Implementing Agency<br>or Entity  | Producers   | FDEP  | ACT: Rayonler<br>Conservation Trust  | ACT  | Allance Grazing<br>Group, LLP  | UFAFAS   | GRU  | GRU  | GRU   | GRU   | GRU  | OCUA  | CCUA  | Sucup   | SUCUD   | Hawfrome  | Archer, City of  | Alachua County EPD                        | GRU   | Alachua County  | Public Water Supply                        |
| lan   | Project Name/Description (two oolumns if needed)  | Agriculture Springs Protection  | Sustainable Suwannee Ag<br>Pliot Program - Low Input*   | Accelerating Suwannee River<br>Restoration and Stiviculture<br>Management  | Graham Farm Acquisition  | Pledmont Dairy Conversion  | Smart Soakers  | Advanced Metering<br>Infrastructure (AMI)  | Large meter replacement  | Tollet/Indoor Plumbing Retrofit<br>Phase 2  | Tollet/Instor Plumbing Retrofit<br>Future Phases  | Future GRU Water<br>Conservation Projects  | Advanced Metering with<br>Customer Dashboard  | Customer DSM Programs<br>(take midpoint or water prod)  | Promote Cost-Effective<br>Conservation Programs   | NW Weinfeld VFD addtion   | Water Main Replacement,<br>Phase 4  | -  | Reducing Impacts from Urban<br>Landscapes | +   | High Springs Limerock Mine  | Water Supply Infrastructure                |
| WOLK PI                                     | Project Type  | Agricultural<br>Conservation  | Agricultural<br>Conservation  | Agricultural<br>Conservation   |  | Agricultural<br>Conservation   | Agricultural<br>Conservation   | PS and CII<br>Conservation   | PS and CII<br>Conservation   | PS and CII<br>Conservation  | PS and CII<br>Conservation  | PS and CII<br>Conservation   | PS and CII<br>Conservation  | PS and CII<br>Conservation  | PS and CII<br>Conservation  | PS and CII<br>Conservation  | PS and CII<br>Conservation  | PS and CII<br>Conservation   | PS and CII<br>Conservation                | PS and CII<br>Conservation  | PS and CII<br>Conservation  |  |
| Facilities                                  | County  | Alachua, Bradford,<br>Columbia, Gilchrifs,<br>Hamiton, Suwannee,<br>Union                   | Alachua, Bradford,<br>Columbia, Cilchrist,<br>Hamilton, Suwannee,<br>Union  | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamiton, Suwannee,<br>Union  | Columbia   | Glichrist  | Glichnist  | Alachua  | Alachua  | Alachua   | Alachua   | Alachua  | Clay  | Clay  | St. Johns   | St. Johns   | Alachua   | Alachua  | Alachua                                   | Alachua   | Alachua   | Alachua, Bradford,<br>Columbia, Gilchrist, |
| (iddns                                      | District  | SRVMD   | SRVMD   | SRWMD  | CIMMUN   | SRVMD  | SRVMD  | SJRWMD   | SJRWMD   | SJRWMD  | SURWIND   | SURWIND  | <b>DIMWAINS</b>   | SJRWMD  | SJRWMD  | SJRWMD  | CINNING   | SRVMD  | SRWMD                                     | SRWMD   | SRWMD   | CRAND                                      |
| 2024-2034 Water Supply Facilities Work Plan | DEP Project ID  | W   | SRWS00052A  | SRW500106B   | NA   | N  | NA   | ¥  | NA   | NA  | NA  | NA   | ž   | ž   | W   | Ň   | ¥   | NA   | NA  | M   | NA  | S.RWSD0158A                                |
|   | RWSP<br>Project No.   | 2760  | 103   | 228  | 2093   | 2673   | 2967   | 2023_22  | 2023_23  | 2023_24   | 2023_25   | 2017_142   | 2023_16   | 2023_18   | 2017_174  | 2023_44   | 2023_53   | 2680   | 2671                                      | 2669  | 2672  | T<br>T                                     |

 
 Total Capital Cost
 Estimated Amual
 Unit Cost (\$1,000

 (\$M)
 (\$M)
 galors)

 \$0.20
 \$0.005
 \$4.85

 \$57.46
 \$1.16
 \$415.77
 Estimated Benefit Storage Capacity 1 (mgd) Increased (MG) 0.01 NA 0.01 NA 16.81 0.00 Estimated Completion Date 2025 Project Status Proposed Installation of AMR meters to reduce water loss in the NFRWSP area. Project Description Project Name Description (two Implementing Agency outurns if needeo) or Entity Waloo AMR water meter Waloo, City of reploament Project Type PS and CII Conservation County Bradford Project Option SRVMD rued. Water Conservation DEP Project ID M Table K3, Continu TRWSP Project No. Total

this 1 2668

\$28.97

\$0.003 \$0.05

\$0.18 \$2.80

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0.01

2023

Underway

Replacement of aging infrastructure to reduce water loss in the NFRWSP area.

Hampton, City of Lantey, City of

replacement wrey Water Main Replacement

PS and CII Conservation PS and CII Conservation

Bradford Bradford

SRWMD

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| Table K4. (          | Table K4. Conceptual Project Options |           |   |                              |   |                                  |  |                           |                             |                            |                                    |                            |                        |                                 |
|----------------------|--------------------------------------|-----------|---|------------------------------|---|----------------------------------|--|---------------------------|-----------------------------|----------------------------|------------------------------------|----------------------------|------------------------|---------------------------------|
| RWSP<br>Project No.  | DEP Project ID                       | District  | County  | Project Type                 | Project Name  | Implementing Agency<br>or Entity | Project Description  | Project Status            | Estmated<br>Completion Date | Estimated Benefit<br>(mgd) | Storage Capacity<br>Increased (MG) | Total Capital Cost<br>(5M) | Estmated Annual<br>O&M | Unit Cost (\$/1,000<br>galions) |
| 8                    | SRWS00074A                           | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union  | Agricultural<br>Conservation | Agroutural Efficiency<br>Improvements                               | SRWMD/Producers                  |  | Construction/<br>Underway | 2045                        | TBD                        | ¥                                  | TBD                        | TBO                    | TBD                             |
| 2023_12              | 2                                    | SJRWMDISR |   |                              |   | OCUA, JEA, SJOUD,<br>and GRU     | Develop a list of reacisite, concision regional exponse of ropease of ropeast for the FRWISS<br>and MiLL preventioninexcent strategies for the LSFIR and the Sukamme Fluws.<br>Thatis Inucluis - contexton and review of utility MIPP and VWIPP and VWIP and VWIP<br>individual utility conceptual greated tasks review, 3. Bernitadition and streaming of<br>projecta for further conceptual greated tasks review, 3. Bernitadition and streaming of<br>projecta for utility conceptual greated tasks review, 3. Bernitadition and streaming of<br>projecta for utility conceptual greated tasks review, 3. Bernitadition and streaming of<br>projecta for utility conceptual greated tasks review, 3. Bernitadition and streaming of<br>projecta for utility conceptual greated tasks review, 3. Bernitadition and streaming of<br>projecta for the VIPP and tasks review, 3. Bernitadition and streaming of<br>project at the VIPP and tasks review, 3. Bernitadition and streaming of<br>project at the VIPP and tasks review, 3. Bernitadition and streaming of<br>project at the VIPP and tasks review, 3. Bernitadition and streaming of<br>project at the VIPP and tasks review, 3. Bernitadition and streaming at the<br>project at the VIPP and tasks review, 3. Bernitadition and streaming at the<br>project at the VIPP and tasks review, 3. Bernitadition and streaming at the<br>project at the VIPP and tasks review, 3. Bernitadition and streaming at the<br>project at the VIPP and tasks review, 3. Bernitadition at the VIPP and | Proposed                  | 2024                        | TBD                        | N                                  | QEL                        | 150                    | QE                              |
| 217                  | SRWS00131A                           | SRWMD     | Bradford  | Groundwater<br>Recharge      | Rayonier South Water Supply<br>Project                              | SRWMD                            | Restore natural flows with or without enhanced storage or aquifer recharge to UFA.   | Proposed                  | 2045                        | 0.00                       | M                                  | \$3.50                     | TBO                    | TBD                             |
| 142                  | SRWS00094A                           | SRWMD     | Bradford  | Groundwater<br>Recharoe      | WestFlidge  | TBD                              | Restore natural flows with or without enhanced storage or aquiter recharge to UFA.   | Proposed                  | 2045                        | 1.00                       | NA                                 | \$2.79                     | 180                    | TBD                             |
| 240                  |                                      | CIMMIS    | Bradford  | Groundwater<br>Recharge      | Bradford County Stiviculture &<br>Recharge                          | University of Florida            | The purpose of this project is to enhance opportunities for aguiter recharge to UFA for the silvicultural lands and areas with surplus surface waters.   | Conceptual                | 2045                        | TBD                        | NA                                 | \$2.00                     | TBO                    | TBD                             |
| 358                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrift,<br>Hamilton, Suwannee,<br>Union  | Groundwater<br>Recharge      | Municipal Stommater<br>Discharge Project                            | SRWMD                            | The purpose of this project will be focused on identifying locations where<br>towns vities discharge to open subbasins that then discharge to the Santa Fe Flover.   | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.04                     | TBO                    | TBD                             |
| 369                  |                                      | SRWMD     | Alachua   | Groundwater<br>Recharge      | Open to Closed Basin Project  | SRWMD                            | The purpose is to determine which bashs, that are closed in smaller storm events,<br>but are open in larger events, could be closed for the larger storm events such that<br>the extra volume stored could be recharged into the aquifer through percoation.   | Conceptual                | 2045                        | TBD                        | W                                  | \$0.05                     | TBD                    | TBD                             |
| 360                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamiton, Suwannee,<br>Union   | Groundwater<br>Recharge      | Retention Pond Project Phase I                                      | SRWND                            | The purpose that Frage will be to determine the stating feature incomes were<br>modified to store more water, would they be able to still meet permitting criterica, on<br>average, then much would it cost it modify them. Now much water could be<br>recharged, and it there were cost effective things that could be done to increase the<br>amount of water percosting in poods.   | Conceptual                | 2045                        | TBD                        | ¥                                  | \$0.07                     | 180                    | TBD                             |
| 361                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrifst,<br>Hamilton, Suwannee,<br>Union | Groundwater<br>Recharge      | Santa Fe Basin Sinkhole<br>Recharge Evaluation                      | SRWMD                            | The purpose of these projects will be to find locations to place storage points to<br>assist with increasing rechange to the groundwater or to be used as atternative water<br>supply.   | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.12                     | TBO                    | TBD                             |
| 362                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union  | Groundwater<br>Recharge      | City Stomwater Recharge<br>Study Phase II                           | SRWMD                            | The purpose of this project will be focused on los-inthying locators where storage<br>ponds could be located adjacent or within towns/cities that are in open subbasins<br>that decinarge to the Santa Fe River.   | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.05                     | TBO                    | TBD                             |
| 792                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union  | Groundwater<br>Recharge      | LaCrosse Stormwater<br>Recharge Project Investigation<br>Phase II   | SRWMD                            | The purpose is to evaluate the regulatory fastibility, estimated benefits, and project<br>costs of increased recharge of stomwater in LaCrosse from capturing water from<br>Rooky Creek.   | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.08                     | TBO                    | TBD                             |
| 366 linked to<br>409 | to                                   | SRWMD     | Alachua, Bradford,<br>Columbia, Gichrist,<br>Hamiton, Suwannee,<br>Union    | Groundwater<br>Recharge      | Ecosystem Services  | University of Florida            | This project with flocas or establing a termonic to imperient biologural<br>management practices on threesed lands to benefit the RFWCS and additional<br>areas benefiting CFS. Reducing freest exapotranspiration (ET) will result in<br>Increased applier restrupt (Exapend to the ULA, spring hows, and water yield to<br>hearty streams and waterside, (IIINed to Droject 405)   | Conceptual                | 2037                        | TBD                        | W                                  | \$2.00                     | TBO                    | TBD                             |
| 367                  |                                      | CIMIMUS   | Bradford  | Groundwater<br>Recharge      | Starke-Bradford Master Plan<br>Project                              | SRWMD                            | The purpose of this project will be boused on identifying locations where projects<br>loan be undertaken within the City of Starke or in Eraditod County to enhance core<br>missions of the District.  | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.08                     | TBO                    | TBD                             |
| 372                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union  |                              | Retention Pond Project Phase  | SRWMD                            | The purpose of this Project will be to determine if increasing the amount of<br>stommater stored in retention ponds will have an adverse impact on groundwater,<br>downstream wetlands, water levels and/or Minimum Prows at nearby gauges.  | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.20                     | TBO                    | TBD                             |
| 374                  |                                      | SRWMD     | Hamilton  | Groundwater<br>Recharge      | Cooperative Aquifer Recharge  | Agricultural Chemicals           | The purpose of this project is to identify UFA recharge locations based on water<br>quality and water availability metrics.  | Conceptual                | 2045                        | TBD                        | MA                                 | TBD                        | TBO                    | TBD                             |
| 375                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrifst,<br>Hamilton, Suwannee,<br>Union | Groundwater<br>Recharge      | Santa Fe River Basin and<br>Stream Storage Investigative<br>Project | SRWMD                            | The purpose is to identify and protitize potential pond sites within open subbasins in<br>the Lower Samis Fe and checkulomee (LSFI) pasm watershead that can be used to<br>be controlled at tormutater and will percolate the excess water to recharge<br>droutowater levels.  | Conceptual                | 2045                        | TBD                        | NA                                 | \$0.09                     | TBD                    | TBD                             |
| 378                  |                                      | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrifs,<br>Hamilton, Suwannee,<br>Union  | Groundwater<br>Recharge      | Cow Creek Project   | SRWMD                            | The purpose of this project will be to develop projects that provide storage and<br>recharge to the groundwater that build off results from the Open to Closed Basin<br>Project (0355) and the Santa Fe Basin Sinkhole Recharge Exaluation (0361).   | Conceptual                | 2045                        | TBD                        | ¥                                  | TBD                        | TBO                    | TBD                             |
| ₽<br>₽               | SRWS00120A                           | SRWMD     | Alachua, Bradford,<br>Columbia, Gilchrist,<br>Hamilton, Suwannee,<br>Union  | PS and CII<br>Conservation   | SRWMD PS/CII Conservation<br>Potential                              | SRWMD                            | Water conservation to be achieved through the replacement of insetticient that<br>with high emolency that res to reduce commercial water consumption.  | Proposed                  | 2045                        | TBO                        | ¥                                  | TBD                        | TBO                    | TBD                             |
| age                  |                                      | SJRWMD    | Duval   | PS and CII<br>Conservation   | Water Conservation Education<br>Program                             | Atlantic Beach                   | Working with CDNS Environmental Stewards Commission dwm leconical<br>assistance from SJRMAD Stift, the Coly of Alamic Beach Judic Untillies<br>Department with implement, a wurking water use tench-marking program and<br>exclassional curreach program with the goal of reducing per capita water use within<br>the CAN of 15%.  | Conceptual                | TBO                         | 0.35                       | ¥                                  | DBT                        | 180                    | ¥                               |
|                      |                                      |           |   |                              |   |                                  |  |                           |                             | 1.35                       | 0.00                               | \$11.07                    | \$0.00                 | \$0.00                          |
| chik<br>33 d         |                                      |           |   |                              |   |                                  |  |                           |                             |                            |                                    |                            |                        |                                 |

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**APPENDIX 2** 

10-Year Capital Improvement Projects, North and South Grids FY2024-2034

| Capital               | . Improv( | Capital Improvement Projects, South Grid (in \$1,000s)                 | ,uuus)                       |          |          |         |       |         |         |          |       |       |       |       |
|-----------------------|-----------|--|------------------------------|----------|----------|---------|-------|---------|---------|----------|-------|-------|-------|-------|
| Index No              |           | Project Description  | Project<br>Total<br>FY 24-34 | FY 24    | FY 25    | FY 26   | FY 27 | FY 28   | FY 29   | FY 30    | FY 31 | FY 32 | FY 33 | FY 34 |
| 101-60                |           | Forest Blvd - Stone Rd to T-Line - Raw<br>Water Main - New             | \$122                        | \$117    | \$5      | 0\$     | 0\$   | \$0     | \$0     | \$0      | 0\$   | 0\$   | \$0   | \$0   |
| 101-71                |           | South Grid - Baymeadows Rd -<br>Brierwood Rd to Craven Rd W - W        | \$1,300                      | \$0      | \$0      | \$0     | \$0   | \$0     | \$190   | \$550    | \$560 | \$0   | \$0   | \$0   |
| 101-72                |           | South Grid - CR210 - St Johns Pkwy to<br>Leo Maguire Pkwy - W          | \$2,000                      | \$0      | \$0      | \$110   | \$332 | \$1,200 | \$358   | \$0      | \$0   | \$0   | \$0   | \$0   |
| 101-73                |           | South Grid - Intertie between Bartram<br>Repump and Racetrack Rd - W   | \$102                        | 0\$      | \$17     | \$85    | 0\$   | 0\$     | 0\$     | 0\$      | 0\$   | \$0   | 0\$   | \$0   |
| 102-21                |           | SIPS - Main St WTP - 1st St to<br>Franklin St - Trans - New - W - ENV  | \$30                         | \$30     | 0\$      | 0\$     | 0\$   | 0\$     | 0\$     | 0\$      | 0\$   | \$0   | 0\$   | \$0   |
| 102-33                |           | US1 BPS - Old St Augustine Rd to<br>US1 BPS - New - W                  | \$547                        | \$527    | \$20     | 0\$     | 0\$   | 0\$     | 0\$     | 0\$      | 0\$   | 0\$   | 0\$   | \$0   |
| 102-34                |           | SIPS - Deerwood - Southside Blvd<br>Intertie to Deerwood III WTP - New | \$9,331                      | \$8,136  | \$1,195  | \$0     | \$0   | \$0     | \$0     | \$0      | \$0   | \$0   | \$0   | \$0   |
| 102-35                |           | SIPS - Oakridge - Saints Rd - St Johns<br>Bluff to Oakridge WTP - W    | \$13,381                     | 0\$      | 0\$      | 0\$     | 0\$   | \$1,132 | \$5,436 | \$6,813  | 0\$   | 0\$   | 0\$   | \$0   |
| 102-36                |           | SIPS - Ridenour - Cortez to Ridenour<br>WTP - New - W                  | \$25,373                     | 0\$      | 0\$      | 0\$     | 0\$   | \$2,162 | 668'6\$ | \$13,312 | 0\$   | 0\$   | 0\$   | \$0   |
| 102-37                |           | SIPS - Greenland - Southside Blvd -<br>Deerwood 3 to Greenland - W     | \$49,920                     | \$27,500 | \$14,620 | \$7,800 | 0\$   | 0\$     | 0\$     | 0\$      | 0\$   | \$0   | 0\$   | \$0   |
| 102-43                |           | SIPS - Greenland WTP GST No. 3 and Intertie Station                    | \$9,409                      | \$15     | \$7,232  | \$2,162 | \$0   | \$0     | \$0     | \$0      | \$0   | \$0   | \$0   | \$0   |
| 150-10                |           | Southeast WTP - Ground Storage<br>Tank                                 | \$6,712                      | \$162    | 0\$      | 0\$     | \$62  | \$3,407 | \$2,033 | \$1,048  | 0\$   | 0\$   | 0\$   | \$0   |
| 166-27W<br><b>Pag</b> |           | Rivertown - 2022-3807 Rivertown Main<br>Street Phase 5 - W             | \$1,596                      | 0\$      | \$1,596  | 0\$     | 0\$   | 0\$     | 0\$     | 0\$      | 0\$   | 0\$   | 0\$   | \$0   |
| مoc<br>القو-30W       |           | Estuary - 2023-0673 Ranger Station<br>Roadway and Infrastructure - W   | \$4,676                      | 0\$      | \$2,338  | \$2,338 | 0\$   | 0\$     | 0\$     | 0\$      | 0\$   | \$0   | 0\$   | \$0   |
| M26-92-10<br>199-32M  |           | 2023-2507 Landings at Greenbriar<br>Phase 1 - W                        | \$339                        | \$0      | \$339    | \$0     | \$0   | \$0     | \$0     | \$0      | \$0   | \$0   | \$0   | \$0   |
| 425-13                |           | Brierwood WTP - Rehabilitation   | \$9,168                      | \$0      | \$0      | \$0     | \$0   | \$680   | \$2,797 | \$5,691  | \$0   | \$0   | \$0   | \$0   |
| <b>8</b><br>425-41    |           | Deerwood III WTP - Well 2<br>Replacement                               | \$2,381                      | \$1,890  | \$491    | \$0     | \$0   | \$0     | \$0     | \$0      | \$0   | \$0   | \$0   | \$0   |

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| 425-42 | Cecil Commerce Center - Well No. 4                       | \$4,189   | \$0      | \$1,850  | \$1,682  | \$657    | \$0      | \$0      | \$0      | \$0      | \$0     | \$0     | \$0     |
|--------|--|-----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
| 425-43 | Ridenour WTP - Well No. 8                                | \$4,625   | \$699    | \$3,075  | \$851    | \$0      | \$0      | \$0      | \$0      | \$0      | \$0     | \$0     | \$0     |
| 425-44 | DLY - Southeast WTP - Well No. 4                         | \$2,108   | \$22     | \$0      | \$0      | \$524    | \$1,562  | \$0      | \$0      | \$0      | \$0     | \$0     | \$0     |
| 425-59 | Deerwood WTP - Well 5 Rehabilitation                     | \$68      | \$68     | \$0      | \$0      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | 0\$     | \$0     | \$0     |
| 425-61 | Brierwood WTP - Well 1 Rehabilitation                    | \$28      | \$28     | \$0      | \$0      | 0\$      | 0\$      | \$0      | 20       | \$0      | \$0     | \$0     | \$0     |
| 425-62 | Brierwood WTP - Well 2 Rehabilitation                    | \$1       | \$1      | \$0      | \$0      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | \$0     | \$0     | \$0     |
| 425-64 | Hendricks WTP - Well 6 Rehabilitation                    | \$13      | \$13     | 0\$      | 0\$      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | 0\$     | \$0     | \$0     |
| 425-65 | Norwood WTP - Well 1 Investigation<br>and Rehabilitation | \$1,917   | \$156    | \$1,379  | \$382    | 0\$      | \$0      | \$0      | 0\$      | \$0      | \$0     | \$0     | \$0     |
| 425-66 | Norwood WTP - Well 4 Investigation<br>and Rehabilitation | \$453     | \$391    | \$62     | 0\$      | 0\$      | 0\$      | 0\$      | 0\$      | 0\$      | 0\$     | 0\$     | \$0     |
| 425-67 | Deerwood WTP - Well 8 Rehabilitation                     | \$475     | \$475    | 0\$      | 0\$      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | 0\$     | \$0     | \$0     |
| 425-69 | Oakridge WTP - GST 1 Rehabillitation                     | \$330     | \$330    | \$0      | \$0      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | \$0     | \$0     | \$0     |
| 425-72 | Hendricks WTP - Well 4 Rehabilitation                    | \$635     | \$28     | \$607    | \$0      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | \$0     | \$0     | \$0     |
| 425-73 | Lovegrove WTP - Well 4 Rehabilitation                    | \$468     | \$453    | \$15     | \$0      | 0\$      | 0\$      | \$0      | 20       | \$0      | \$0     | \$0     | \$0     |
| 425-76 | Community Hall Well No. 5<br>Rehabilitation              | \$525     | \$0      | \$525    | \$0      | 0\$      | 0\$      | \$0      | 0\$      | \$0      | \$0     | \$0     | \$0     |
| 425-77 | Oakridge Well No. 4 Rehabilitation                       | \$529     | \$0      | \$529    | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0     | \$0     | \$0     |
| 438-07 | DLY - Beacon Hills WTP -<br>Rehabilitation               | \$12,085  | \$38     | \$15     | \$561    | \$872    | \$5,740  | \$4,859  | 0\$      | 0\$      | 0\$     | \$0     | \$0     |
| 825-15 | Water Treatment Plant Large Capital<br>Improvements - PH | \$142,987 | \$0      | \$413    | \$5,047  | \$9,710  | \$24,065 | \$44,902 | \$30,761 | \$12,414 | \$5,225 | \$5,225 | \$5,225 |
| 831-03 | Royal Lakes WTP Upgrades                                 | \$23,882  | \$1,115  | \$60     | \$6,915  | \$6,886  | \$8,906  | \$0      | \$0      | \$0      | \$0     | \$0     | \$0     |
|        | Totals   | \$331,705 | \$42,194 | \$36,383 | \$27,933 | \$19,043 | \$48,854 | \$70,474 | \$58,175 | \$12,974 | \$5,225 | \$5,225 | \$5,225 |
|        |  |           |          |          |          |          |          |          |          |          |         |         |         |

Capital Improvement Projects, North Grid (in \$1,000s)

| oN xapu<br>Exa<br>Page 35 | Index No Project Description<br>BE<br>F<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS<br>CS | Project<br>Total<br>FY 24-34<br>\$11,000 | FY 24<br>\$0 | FY 25<br>\$0        | FY 26 FY 27<br>\$0 \$750 |     | FY 28<br>\$5,250 | FY 29<br>\$5,000 | FY 30 FY 31<br>\$0 \$0 | FY 31<br>\$0 | FY 32<br>\$0 | £√ 3 | FY 33 FY 34<br>50 \$0 |
|---------------------------|---|--|--------------|---------------------|--------------------------|-----|------------------|------------------|------------------------|--------------|--------------|------|-----------------------|
| ib <u>i</u> t<br>of       | Pritchard Rd - Old Plank Rd to Cisco Dr W - Trans -<br>New - W  | \$599                                    | \$599        | \$0                 | \$0                      | \$0 | \$0              | \$0              | \$0                    | \$0          | \$0          |      | \$0                   |
| <b>60</b><br>1601-07      | Cisco Dr - Westlake WTP to Garden St - Trans - New \$7,770<br>- W   |  | \$438        | \$5,094 \$2,238 \$0 | \$2,238                  |     | \$0              | \$0              | \$0                    | \$0          | \$0          | \$0  | \$0                   |

April 2025

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| 101-10                  | New World Av - Waterworks Ave to Chaffee Rd -<br>Trans - New - W  | \$1       | \$1     | \$0     | 0\$     | \$0     | \$0      | 0\$      | \$0      | \$0      | 0\$      | \$0      | \$0       |
|-------------------------|---|-----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|-----------|
| 101-38                  | Jammes Rd - Wilson Blvd to Harlow Blvd                            | \$2       | \$2     | 0\$     | 0\$     | \$0     | \$0      | 0\$      | \$0      | \$0      | 0\$      | \$0      | \$0       |
| 101-68                  | North Grid - 301 WTP to Trails - W                                | \$12,427  | \$0     | 0\$     | 0\$     | \$0     | \$0      | \$0      | 0\$      | \$0      | \$827    | \$2,500  | \$9,100   |
| 101-69                  | North Grid - Main St - I-295 to Airport Center Dr - W             | \$2,300   | \$0     | 0\$     | \$125   | \$382   | \$1,380  | \$413    | 0\$      | \$0      | 0\$      | \$0      | \$0       |
| 101-70                  | North Grid - Rental Car Lane - Owens Rd to Pecan<br>Park Rd N - W | \$1,600   | \$0     | \$0     | \$0     | \$0     | \$0      | \$240    | \$680    | \$680    | \$0      | \$0      | \$0       |
| 101-71                  | South Grid - Baymeadows Rd - Brierwood Rd to<br>Craven Rd W - W   | \$1,300   | \$0     | \$0     | \$0     | \$0     | \$0      | \$190    | \$550    | \$560    | \$0      | \$0      | \$0       |
| 107-10                  | E 1st St Main St to E 4th St - Raw Water - New - W                | \$1       | \$1     | \$0     | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 127-03                  | Westlake WTP - Expansion from 3.0 to 7.0 MGD                      | \$30,839  | \$13    | \$425   | \$2,081 | \$1,985 | \$10,952 | \$13,957 | \$1,426  | \$0      | \$0      | \$0      | \$0       |
| 127-04A                 | Westlake WTP - Well No 4 and RW Main                              | \$4,354   | \$1,056 | \$3,101 | \$197   | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 150-<br>15W             | SWDE - Southwest WRF Purification Facility                        | \$126,151 | \$298   | \$93    | 09\$    | \$200   | \$2,000  | \$14,000 | \$40,000 | \$43,000 | \$12,000 | \$500    | \$14,000  |
| 151-<br>03W             | SWDE - Cedar Bay Purification Facility                            | \$151,016 | \$366   | \$150   | \$200   | \$200   | \$200    | \$200    | \$200    | \$7,000  | \$5,500  | \$33,500 | \$103,500 |
| 166 <del>-</del><br>16W | 2021-5321 Darby Offsite - W                                       | \$225     | \$225   | 0\$     | 0\$     | 0\$     | \$0      | 0\$      | 0\$      | \$0      | 0\$      | 0\$      | \$0       |
| 166 <del>-</del><br>17W | 2021-0517 Percy Oaks Offsite - W                                  | \$109     | \$109   | 0\$     | 0\$     | \$0     | \$0      | 0\$      | 0\$      | \$0      | 0\$      | 0\$      | \$0       |
| 166 <del>-</del><br>18W | 2021-5260 Saddle Oaks Offsite - W                                 | \$135     | \$135   | 0\$     | 0\$     | \$0     | \$0      | 0\$      | 0\$      | \$0      | 0\$      | 0\$      | \$0       |
| 166-<br>19W             | 2020-3267 - Seaton Creek - W                                      | \$303     | \$303   | \$0     | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 166-<br>20W             | 2021-0722 - Eaton Ave - W   | \$1,331   | \$635   | \$696   | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 166-<br>21W             | 2020-4323 - Katie Cove - W  | \$472     | \$236   | \$236   | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 166-<br>29W             | 2023-0280 Diamond Timber Trails Phase 1A - W                      | \$257     | \$0     | \$257   | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 166-<br>32W<br>32W      | 2023-2827 Acree Pod G - Offsite Utilities - W                     | \$515     | 0\$     | \$515   | 0\$     | \$0     | 0\$      | 0\$      | 0\$      | \$0      | 0\$      | 0\$      | \$0       |
|                         | 2023-0725 Seaton Creek Phase 4 - W                                | \$388     | \$0     | \$388   | \$0     | \$0     | \$0      | 0\$      | \$0      | \$0      | \$0      | 0\$      | \$0       |
| -<br>₽<br>₽<br>of       | 2023-2192 Trails 1B-1L - W  | \$300     | \$0     | \$300   | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| <b>9</b> 166-38         | 2020-3773 Braddock Lakes - W                                      | \$647     | \$0     | \$647   | \$0     | \$0     | \$0      | \$0      | \$0      | \$0      | \$0      | \$0      | \$0       |
| 166-W                   | Grid - Cost Participation - New - W                               | \$8,800   | \$43    | \$3,795 | \$3,437 | \$1,175 | \$50     | \$50     | \$50     | \$50     | \$50     | \$50     | \$50      |

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## City of Jacksonville 2024-2034 Water Supply Facilities Work Plan

| 2025    |  |
|---------|--|
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| 425-70 Hiç | North Grid - Main St - Cole Rd to Elizabeth Ln - W              | \$3,230   | \$0      | \$0      | \$0     | \$0      | \$0       | \$300     | \$1,500  | \$1,430  | \$0   | \$0     | \$0     |
|------------|---|-----------|----------|----------|---------|----------|-----------|-----------|----------|----------|-------|---------|---------|
|            | Highlands WTP - Well 6 Rehabilitation                           | \$571     | \$480    | \$91     | \$0     | \$0      | \$0       | \$0       | \$0      | \$0      | \$0   | \$0     | \$0     |
| 425-74 Ma  | Main Street WTP - Well 6A Rehabilitation                        | \$531     | \$423    | \$108    | \$0     | \$0      | \$0       | \$0       | \$0      | \$0      | \$0   | \$0     | \$0     |
| 438-02 Ft. | Ft. Caroline Rd - McCormick Rd to Fulton Rd - Dist<br>- New - W | \$2,287   | \$0      | \$0      | \$0     | \$0      | \$179     | \$805     | \$1,303  | \$0      | 0\$   | \$0     | \$0     |
| 642-03 Mc  | McDuff WTP - Refurbishment Project                              | \$4,357   | \$3,115  | \$1,242  | \$0     | \$0      | \$0       | \$0       | 20       | \$0      | 0\$   | 0\$     | \$0     |
| 737-02 Nc  | Norwood WTP - Rehabilitation                                    | \$3,071   | \$1,889  | \$1,182  | \$0     | \$0      | \$0       | \$0       | \$0      | \$0      | 0\$   | 0\$     | \$0     |
| 743-01 SJ  | SJRPP WTP - New 2 MGD Plant                                     | \$26,200  | \$0      | \$0      | \$0     | \$0      | \$300     | \$1,700   | \$6,000  | \$18,200 | \$0   | \$0     | \$0     |
| 825-17 La  | Lakeshore WTP - Reservoirs Rehabilitation - Phase               | \$4,179   | \$3,944  | \$235    | \$0     | \$0      | \$0       | \$0       | \$0      | \$0      | 0\$   | \$0     | \$0     |
| 825-18 Nc  | North Grid THM Mitigation Project                               | \$27,794  | \$185    | \$694    | \$1,200 | \$5,000  | \$17,000  | \$3,607   | \$108    | \$0      | 0\$   | 0\$     | \$0     |
| To         | Totals  | \$476,801 | \$13,860 | \$20,007 | \$8,681 | \$16,063 | \$180,348 | \$127,173 | \$25,793 | \$72,299 | \$877 | \$2,550 | \$9,150 |

### **APPENDIX 3**

# Reclaimed Water Proposed Capital Improvement Projects FY2024-2034

Note: Yellow-highlight shows projects listed in the 2023 North Florida Regional Water Supply Plan

t Projects (in \$1 000s) ait of lo č d Wate - Loin Rec

| Reclaime    | Reclaimed Water Capital Improvement Projects (in \$1,000s)                        | It Projects (In              | \$T,UUUS) |         |          |          |          |          |          |          |          |         |          |
|-------------|---|------------------------------|-----------|---------|----------|----------|----------|----------|----------|----------|----------|---------|----------|
| Index<br>No | Project Description   | Project<br>Total<br>FY 24-34 | FY 24     | FY 25   | FY 26    | FY 27    | FY 28    | FY 29    | FY 30    | FY 31    | FY 32    | FY 33   | FY 34    |
| 103-04      | Blacks Ford WRF -<br>Expansion from 6 to 12<br>MGD                                | \$246,142                    | \$8,299   | \$3,151 | \$71,721 | \$81,134 | \$76,284 | \$5,553  | \$0      | \$0      | 0\$      | 0\$     | 0\$      |
| 105-01      | SWDE - Deep Injection<br>Disposal Wells   | \$59,669                     | 0\$       | \$0     | \$0      | 0\$      | 0\$      | \$39,000 | \$16,333 | \$4,336  | \$0      | \$0     | \$0      |
| 105-02      | SWDE - Water Purification<br>Piloting   | \$2,030                      | 0\$       | 0\$     | \$1,015  | \$1,015  | 0\$      | 0\$      | 0\$      | 0\$      | \$0      | \$0     | \$0      |
| 131-05      | SWDE - Monterey WRF   | \$41,000                     | 0\$       | 0\$     | 0\$      | 0\$      | 0\$      | 0\$      | 0\$      | \$6,000  | \$20,000 | \$5,000 | \$10,000 |
| 131-<br>18S | SWDE - Arlington East<br>Purification Facility - Deep<br>Injection Disposal Wells | \$42,585                     | 0\$       | 0\$     | \$185    | \$2,100  | \$1,000  | \$14,300 | \$19,000 | \$6,000  | 0\$      | 0\$     | \$0      |
| 135-19      | Arlington East WRF –<br>Reclaimed Water and<br>Disinfection System<br>Upgrades    | \$102,320                    | \$1,366   | \$3,690 | \$38,000 | \$44,000 | \$15,164 | \$100    | 0\$      | 0\$      | 0\$      | 0\$     | 0\$      |
| 135-20      | SWDE - Arlington East<br>Deep Injection Disposal<br>Well                          | \$17,123                     | \$0       | \$7,759 | \$9,364  | \$0      | 0\$      | 0\$      | 0\$      | 0\$      | 0\$      | 0\$     | \$0      |
| 150-<br>15S | SWDE - Southwest WRF<br>Purification Facility - Deep<br>Injection Disposal Wells  | \$101,928                    | (\$169)   | 0\$     | \$0      | 0\$      | \$5,188  | \$39,029 | \$38,529 | \$19,351 | 0\$      | 0\$     | 0\$      |
| 151-<br>03S | SWDE - Cedar Bay<br>Purification Facility - Deep<br>Injection Disposal Wells      | (\$232)                      | (\$232)   | \$0     | \$0      | \$0      | \$0      | 0\$      | \$0      | \$0      | \$0      | \$0     | \$0      |
| 151-04      | SWDE - Cedar Bay Deep<br>Injection Disposal Well                                  | \$22,300                     | \$0       | \$0     | \$0      | \$0      | \$1,500  | \$19,500 | \$1,300  | \$0      | \$0      | \$0     | \$0      |

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City of Jacksonville 2024-2034 Water Supply Facilities Work Plan

\$54,349 \$100 \$50 \$0 \$0 \$0 8 \$ \$0 8 \$0 \$0 \$3 \$0 \$0 \$49,964 \$100 \$50 \$3 \$0 \$0 \$0 \$0 \$0 \$3 \$0 \$0 \$0 \$0 \$0 \$22,107 **\$1,400** \$100 **\$195** \$50 \$3 \$3 \$0 \$0 <mark>\$0</mark> \$0 \$0 \$3 \$0 \$0 **\$3,669** <mark>\$3,430</mark> **\$5,044** \$100 \$50 \$0 \$3 \$3 \$0 \$0 \$0 \$0 8 \$0 \$0 **\$5,592 \$1,100** \$100 \$600 \$42 \$0 \$0 \$0 \$3 \$0 \$0 \$0 \$0 \$3 \$0 \$714 \$100 \$41 \$50 \$90 \$0 \$0 \$0 \$3 \$0 \$0 \$0 \$0 \$0 \$0 **\$5,652** \$3,733 \$100 \$195 \$50 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 <mark>\$8,546</mark> \$3,114 \$100 \$195 \$50 **\$**0 \$0 \$0 \$0 \$0 \$0 \$3 <mark>8</mark> \$0 \$0 <mark>\$1,156</mark> \$7,472 \$2,563 \$100 \$941 \$388 \$50 \$54 **\$**0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,114 \$6,267 \$2,563 \$2,249 **\$8,425** \$352 \$446 **\$925** \$632 \$797 \$39 \$31 \$ \$0 \$0 \$35,595 **\$6,219 \$5,081** (\$32) \$612 \$0 \$0 \$0 \$0 \$0 \$3 \$0 \$0 \$3 \$0 \$136,395 **\$41,862 \$14,361 \$13,894** \$10,060 \$3,014 \$5,126 **\$8,522 \$4,266** \$8,662 **\$7,634** \$446 \$490 \$600 \$643 • Monument Rd - AE WRF to Estuary - 2023-0075 Ranger Station Roadway RiverTown - New Storage and Pumping System - R Longleaf Pine Pkwy to Greenbriar Estates Dr -<mark>9 '</mark> Grid - Cost Participation -Hampton to Ashford Mills -Davis - Gate Pkwy to RG Skinner - Trans - R Johns Pkwy to CR210 -Greenland WRF - 4.0 MGD JP - SJC-Greenbriar Rd -Storage Tank and Booster Nocatee South RW Storage Tank and Booster PS - R Main Street Reuse Facility - Capital Equipment Replacement JP - SJC - CR210 - South St Johns Bluff Rd - Trans -Russell Sampson Rd - St. Twin Creeks Reclaim 2022-380 CR210 - Twin Creeks Russell Sampson Rd WRF and Infrastructure - R Expansion to 8 MGD PS - R - (Reimb-20) Trans - R - ENV Greenland Rivertown Rivertown Phase 5 - S Trans – R Trans - R Trans - R New - R New - R 417-64 417-65 181-06 417-47 417-52 417-53 417-54 268-10 166-R 108R 417-166-30R 182<mark>-</mark> 268<mark>-</mark> 166-27S 417-12A 10A W3

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City of Jacksonville 2024-2034 Water Supply Facilities Work Plan

| 0\$   | \$0   | \$0                              | \$0                                  | \$0   | \$0  | 0\$                                      | \$2,000   | 0\$                                  | \$0                                      | \$0   | \$0   | \$0  | \$0   | \$5,500  | \$71,999    |
|---|---|----------------------------------|--------------------------------------|---|--|--|---|--------------------------------------|--|---|---|--|---|--|-------------|
| 0\$   | \$0   | \$0                              | \$0                                  | 0\$   | \$0  | 0\$                                      | \$400   | 0\$                                  | \$0                                      | 0\$   | \$0   | \$0  | \$0   | \$5,500  | \$61,014    |
| 0\$   | 0\$   | \$0                              | \$0                                  | 0\$   | \$0  | 0\$                                      | \$0   | 0\$                                  | 0\$                                      | 0\$   | \$0   | \$0  | 0\$   | \$5,500  | \$49,352    |
| 0\$   | \$0   | \$0                              | \$0                                  | \$0   | \$0  | \$2,000                                  | \$0   | 0\$                                  | \$0                                      | 0\$   | \$0   | \$0  | \$0   | \$5,500  | \$55,480    |
| <b>0</b> \$   | \$0   | \$0                              | \$0                                  | \$0   | \$0  | \$10,300                                 | 0\$   | 0\$                                  | \$0                                      | \$0   | \$0   | \$0  | \$0   | \$5,500  | \$98,396    |
| 0\$   | 0\$   | \$0                              | \$0                                  | \$0   | \$0  | \$5,500                                  | 0\$   | 0\$                                  | \$0                                      | \$0   | \$0   | \$0  | \$0   | \$5,500  | \$154,810   |
| 0\$   | 0\$   | \$0                              | \$2,050                              | \$0   | \$0  | \$200                                    | 0\$   | \$5,600                              | \$0                                      | \$0   | \$0   | \$0  | \$0   | \$5,500  | \$190,118   |
| \$1,968   | \$117   | \$0                              | \$1,000                              | \$0   | \$0  | \$0                                      | 0\$   | \$2,000                              | \$3,926                                  | \$0   | \$6,683                                       | \$0  | 0\$   | \$5,500  | \$176,952   |
| \$3,581   | \$5,147   | \$0                              | \$1,000                              | \$0   | \$0  | \$0                                      | \$0   | \$400                                | \$9,557                                  | 0\$   | \$3,201                                       | \$1,755                                      | 0\$   | \$5,500  | \$141,787   |
| \$426   | \$706   | \$2,750                          | \$0                                  | \$2,132   | (\$2)  | 0\$                                      | 0\$   | 0\$                                  | \$2,632                                  | (\$425)   | \$774   | \$39,258                                     | \$0   | \$5,500  | \$92,975    |
| \$3   | \$208   | \$815                            | \$0                                  | \$595   | \$1,437                                      | 0\$                                      | \$0   | 0\$                                  | \$386                                    | \$1,168   | \$36  | 24072  | \$249   | \$5,240  | \$90,960    |
| \$5,978   | \$6,179   | \$3,565                          | \$4,050                              | \$2,727   | \$1,435                                      | \$18,000                                 | \$2,400   | \$8,000                              | \$16,501                                 | \$743   | \$10,694                                      | \$65,085                                     | \$249   | \$60,240   | \$1,183,843 |
| Blacks Ford WRF to<br>Veterans Pkwy – Trans –<br>RW | Greenbriar Rd - Longleaf<br>Pine Pkwy to Spring Haven<br>Dr - Trans - R | Nocatee South RW<br>Improvements | SEQ to Gate Parkway -<br>Trans-New-R | Rivertown Reclaim Water<br>Booster Pump Station | Mandarin-Greenland<br>Interconnect - R - ENV | N Estuary - RW Storage<br>and Repump - R | Bartram Park WTP -<br>Reclaimed Storage Tank<br>Expansion Phase 3 - R | Nocatee South RW Storage<br>Tank - R | Ridenour WTP - Storage<br>and Repump - R | US 1 - Greenland WRF to<br>CR 210 - Trans - New - R | Nocatee North - Reclaim<br>Water Storage Tank | Water Purification<br>Demonstration Facility | H20 Purification Center -<br>Offsite Piping - Reclaimed<br>Water Main | Water Reclamation<br>Facilities - Capital<br>Equipment Replacement | Totals      |
| 417-72  | 417-74  | 417-83                           | 417-90                               | 417-91  | 417-94                                       | 417-97                                   | 417-98  | 417-<br>104                          | 422-05                                   | 730-12  | 730-16  | 825-13                                       | 825-<br>13C   | 870-01   |             |

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### Appendix 4 - Water Supply Facilities Work Plan 2024-2034

### 301 Villages Water, Wastewater, and Reuse Water Facilities

Added August 6, 2024 pursuant to Policy 1.1.13 of the Infrastructure Element, Potable Water Sub-Element (IE-PW) of the of the 2045 Comprehensive Plan

### IE-PW

### Policy 1.1.13

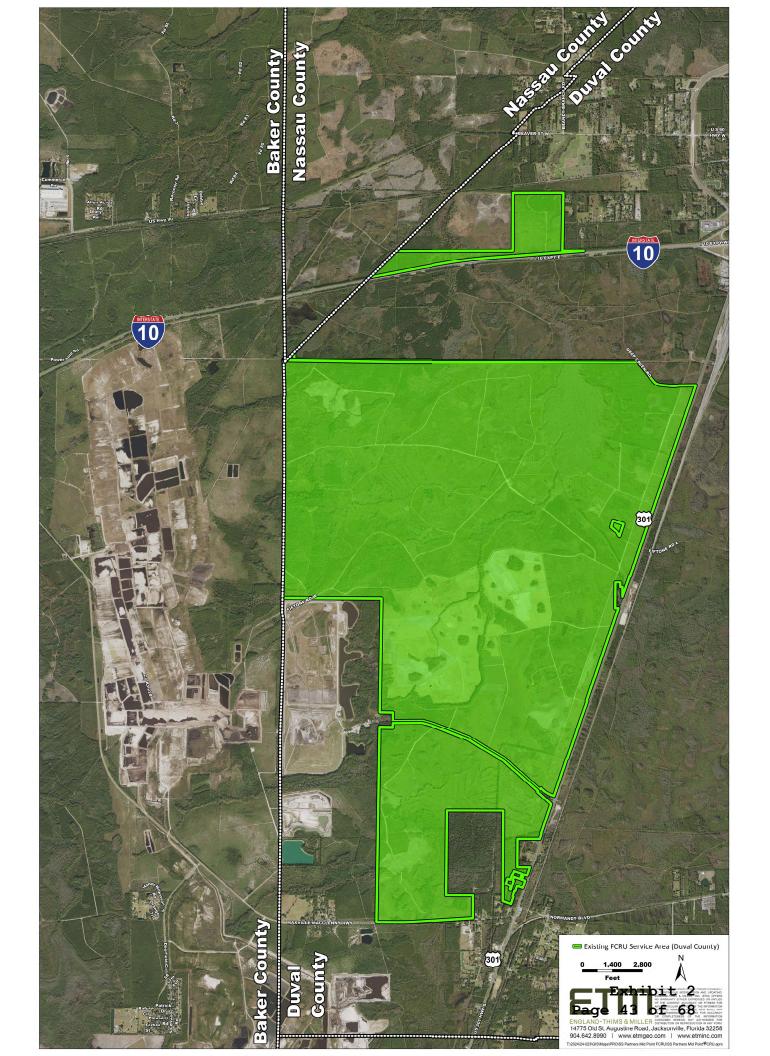
The City shall continue to amend the Comprehensive Plan as needed to implement the City's Water Supply Facilities Work Plan 2018-2028 (Jacksonville Planning and Development Department, February 2019), adopted by reference. Supporting data and analysis may be attached as appendices to the Water Supply Facilities Work Plan, and updated from time to time, without the necessity of an amendment to the Comprehensive Plan. The City and JEA shall continue to identify and implement traditional and alternative water supply projects and programs, including conservation and water reuse, that are consistent with the SJRWMD's Regional Water Supply Plan to meet the City's water needs.

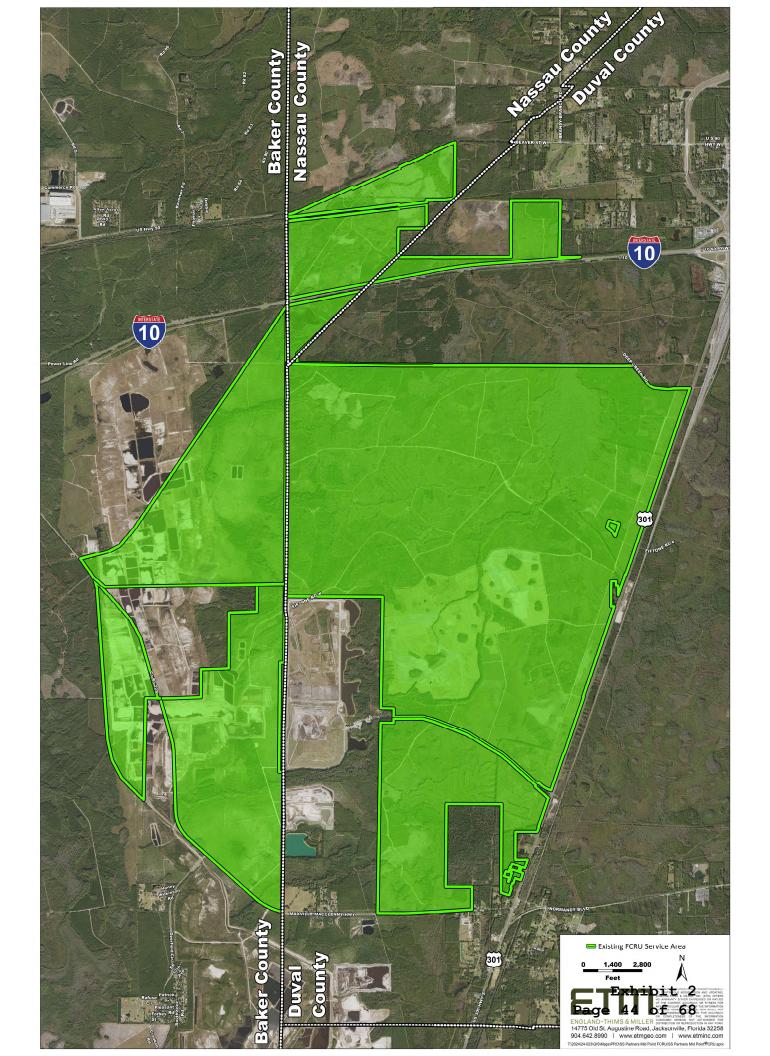
### Summary:

Construction, by 301 Capital Partners, LLC, and its Florida Public Service Commission authorized utility subsidiary, First Coast Regional Utilities, Inc., of a One Million Gallon per Day (MGD) water, wastewater, and reuse utility facility to serve entitled development on approximatly 7,000 acres of land located west of US 301 and south of Interstate 10 in western Jacksonville. First Coast Regional Utilities, Inc., has received a 1.2 mgd Consumptive Use Permit (CUP) issued 7/11/24 by the SJRWMD (attached). All estimates are subject to final design and contracting.

Pursuant to Ordinances 2021-692-E and 2021-693-E, development is entitled on approximately 7,000 acres of land located west of US 301 and south of Interstate 10 in western Jacksonville. The development is entitled for construction of over 15,000 equivalent water and wastewater residential connections in mixed use configuration consisting of single-family and multi-family housing and zoning entitlements for commercial, hospital, office, and hotel/motel uses. Pursuant to the Multi-Use Future Land Use Category of the 2045 Comprehensive Plan and the 301 Villages Master Plan, the Water Supply Facilities Work Plan must be updated to reflect construction of the water supply facilities required to serve development. 301 Capital Partners, LLC, and its subsidiary, First Coast Regional Utilities, Inc., is authorized to and will provide water, wastewater, and reuse utility services to the property entitled pursuant to 2021-692-E and 2021-693-E. 301 Capital Partners, LLC, or its assigns or subsidiary, will be responsible for the design and construction of the facility utilities, which shall consist of One Million Gallon per Day (MGD) of water, wastewater, and reuse capabilities to provide services to the proposed development.

| Proiect Title                                      | 301 Villages Water Wastewater and Belise Water Facilities   | tewater and Relice                                 | Water Facilities                                 |   | Council District(s)                  | 12                                | Fet. Com                       | Fst. Comulation Date (FV)            | V) EV 2024                           | V C                        |               |                     |
|--|---|--|--|---|--------------------------------------|-----------------------------------|--------------------------------|--------------------------------------|--------------------------------------|----------------------------|---------------|---------------------|
| Project Location                                   | U.S. 301  |  |  | Project No                                |                                      | N/A                               | Capital N                      | Capital Maint. Category              |                                      | + 1                        |               |                     |
| Department   | N/A - Private Funding - 301 Capital Partners LLC/First Coast Reg  | 01 Capital Partners Ll                             | LC/First Coast Regional                          |   | /BT No                               |                                   | APP/Ver                        | APP/Vertical Construction            | u                                    |                            |               |                     |
|  | Utilities, Inc.   |  |  |   | 2                                    | No                                |                                |                                      |                                      |                            |               |                     |
| Program Area                                       | Public Facilities   |  |  | Urban Core                                |                                      | No                                | Est. Usel                      | Est. Useful Life (in years)          | :) 20 Years                          | ars                        |               |                     |
| <b>Description or Scope</b>                        |   |  |  |   |                                      |                                   |                                |                                      |                                      |                            |               |                     |
| Construction, by 301 Ca                            | Construction, by 301 Capital Partners, LLC, and its Florida Public Service Commission authorized utility subsidiary, First Coast Regional Utilities, Inc., of a One Million Gallon per Day (MGD) water, wastewater, and   | s Florida Public Servic                            | e Commission author                              | ized utility subsidia                     | ary, First Coast Re                  | gional Utilitie                   | s, Inc., of a C                | one Million Gallo                    | on per Day (M                        | GD) water,                 | wastewater,   | and                 |
| reuse utility facility to su                       | reuse utility facility to serve entitled development on approximatly 7,000 acres of land located west of US 301 and south of Interstate 10 in western Jacksonville. First Coast Regional Utilities, Inc., has received a 1.2  | it on approximatly 7,0                             | 000 acres of land locat                          | ted west of US 301                        | and south of Inte                    | erstate 10 in w                   | vestern Jacks                  | onville. First Co                    | ast Regional L                       | Jtilities, Inc.            | , has receive | d a 1.2             |
| mgd Consumptive Use F                              | mgd Consumptive Use Permit (CUP) issued 7/11/24 by the SJRWMD (attached). All estimates are subject to final design and contracting.  | 24 by the SJRWMD (a                                | attached). All estimate                          | es are subject to fin                     | al design and co                     | ntracting.                        |                                |                                      |                                      |                            |               |                     |
|  |   |  |  |   |                                      |                                   |                                |                                      |                                      |                            |               |                     |
| Justification                                      |   |  |  |   |                                      |                                   |                                |                                      |                                      |                            |               |                     |
| Pursuant to Ordinances                             | Pursuant to Ordinances 2021-692-E and 2021-693-E, development is entitled on approximately 7,000 acres of land located west of US 301 and south of Interstate 10 in western Jacksonville. The development is  | 3-E, development is e                              | entitled on approxima                            | tely 7,000 acres of                       | land located wes                     | t of US 301 ar                    | nd south of li                 | nterstate 10 in v                    | vestern Jacksc                       | onville. The               | developmen    | t is                |
| entitled for construction                          | entitled for construction of over 15,000 equivalent water and wastewater residential connections in mixed use configuration conisting of single-family and multi-family housing and zoning entitlements for   | nt water and wastew                                | ater residential cone                            | ections in mixed us                       | e configuration c                    | onisting of sin                   | igle-family ai                 | nd multi-family                      | housing and z                        | oning entitl               | ements for    |                     |
| commerical, nospital, o<br>must be updated to refl | commerical, nospital, office, and notel/motel uses. Pursuant to the Multi-Use Future Land Use Category of the 2045 comprehensive Plan and the 301 Milages Master Plan, the Water Supply Facilities Work Plan must be updated to reflect contruction of the water supply facilities required to serve develoment. 301 Capital Partners, LLC, and its subsidiary, First Coast Regional Utilities, Inc., is authorized to and will provide | ss. Pursuant to the Mi<br>ter supply facilities re | ulti-Use Future Land L<br>equired to serve devel | Jse Category of the<br>pment. 301 Capital | zu45 comprene<br>l Partners, LLC, ai | nsive Plan and<br>nd its subsidia | the 301 VIII<br>ry, First Coas | ages Master Pla<br>st Regional Utili | in, the water :<br>ties, lnc., is au | suppiy Faci<br>thorized to | and will prov | ian<br>vide         |
| water, wastewater, and                             | water, wastewater, and reuse utility services to the property entitled pursuant to 2021-692-E and 2021-693-E. 301 Capital Partners, LLC, or its assigns or subsidiary, will be responsible for the design and   | he property entitled p                             | oursuant to 2021-692                             | -E and 2021-693-E.                        | 301 Capital Par                      | tners, LLC, or i                  | ts assigns or                  | subsidiary, will                     | be responsible                       | e for the de               | sign and      |                     |
| construction of the facil                          | construction of the facility utilities, which shall consist of One Million Gallon per Day (MGD) of water, wastewater, and reuse capabilitities to provide services to the proposed development.   | onsist of One Million G                            | Gallon per Day (MGD)                             | of water, wastewa                         | iter, and reuse ca                   | ipabilitities to                  | provide serv                   | rices to the prop                    | oosed develop                        | ment.                      |               |                     |
|  |   |  |  |   |                                      |                                   |                                |                                      |                                      |                            |               |                     |
| Funding Sources                                    |   | Total ('000)                                       | Prior FY Budget ('000)                           | FY 23-24 ('000)                           | FY 24-25                             | ('000) FY 25-26                   | (000,)                         | FY 26-27 ('0                         | ('000) FY 27-28                      | (000,)                     | Beyond 5      | (000,)              |
| First Coast Regional Utilities (Privately Funded)  | <mark>ies (Privately Funded)</mark>   | \$150,000  |  |   |                                      | \$31,000                          | 00                             | \$31,000                             |                                      |                            | \$55,000      |                     |
| Debt Management Funds                              |   | \$0  | \$0  | \$0                                       | 0,                                   | \$0                               | \$0                            | Ŷ                                    | \$0                                  | \$0                        |               | \$0                 |
| Local Option and Constitutional Gas Taxes          | tional Gas Taxes  | \$0  | 0\$  | 0\$                                       | 0,                                   | 03                                | \$0                            | Ş                                    | \$0                                  | \$0                        |               | \$0                 |
| Prior Year Revenue                                 |   | 0\$  | 0\$  | 0\$                                       |                                      | \$0                               | \$0                            | Ŷ                                    | \$0                                  | \$0                        |               | \$0                 |
| Grant Funding                                      |   | 0\$  | 0\$  | 0\$                                       | ÷,                                   | 0                                 | ¢0                             | Ş                                    | 0                                    | \$0                        |               | \$0                 |
| Pay-Go: Transfer From Other Funds                  | ner Funds   | \$0  | \$0  | 0\$                                       |                                      | \$0                               | \$0                            | Ş                                    | \$0                                  | \$0                        |               | \$0                 |
| Pay-Go: Transfer Stormwater Operating              | ter Operating   | \$0  | \$0  | \$0                                       | 0,                                   | 0                                 | \$0                            | Ş                                    | 0                                    | \$0                        |               | \$0                 |
| F.I.N.D Projects                                   |   | 0\$  | 0\$  | 0\$                                       | ÷.                                   | \$0                               | ¢0                             | Ş                                    | \$0                                  | ¢0                         |               | \$0                 |
| Totals   |   | \$117,000  | \$0  | 0\$                                       |                                      | 0                                 | \$31000                        | <b>\$31000</b>                       | 0                                    | \$0                        | \$5           | \$55000             |
| Experient / Project Phase                          | ase   | Total ('000)                                       | ('000) Prior FY Budget ('000)                    | FY 23-24<br>('000)                        | FY 24-25<br>('000)                   | FY 25-26<br>('000)                | -26                            | FY 26-27<br>('000)                   | FY 27-28<br>('000)                   | -28                        | Beyond 5      | (000,)              |
| Engineersign and Design                            |   |  | \$0  | \$4700                                    | ) \$4700                             | 00                                | \$0                            | Ş                                    | \$0                                  | \$0                        | Ş             | <mark>\$6600</mark> |
| Lan  | <sup>o</sup> rep  | \$0  | \$0  | \$C                                       |                                      | \$0                               | \$0                            | Ŷ                                    | \$0                                  | \$0                        |               | \$0                 |
| Construction                                       |   | \$0  | \$ -   | \$0                                       |                                      | 0                                 | \$0                            | Ş                                    | \$0                                  | \$0                        |               | \$0                 |
| Capital fouripment                                 |   | \$0  | \$0  | \$0                                       |                                      | 0                                 | \$0                            | Ŷ                                    | 0                                    | \$0                        |               | \$0                 |
| Contingency  |   | \$0  | \$0  | \$0                                       | \$0                                  | 0                                 | \$0                            | Ŷ                                    | \$0                                  | \$0                        |               | \$0                 |
| Totes C  |   | \$16,000   | \$0  | \$4,700                                   | \$470                                | 0                                 | \$0                            | Ş                                    | 0                                    | \$0                        | \$            | 6600                |





### FIRST COAST REGIONAL UTILITIES SJRWMD CUP (Permit # 213110-0; Issued July 11, 2024)

### **TOTAL CUP VOLUME ADF (Annual Average)**

| Permit Condition #20 | Upper Floridan Aquifer | 0.96 mgd         |
|----------------------|------------------------|------------------|
| Permit Condition #21 | Surface Water          | 0.196 mgd        |
| Permit Condition #22 | Intermediate Aquifer   | <u>0.047 mgd</u> |
| TOTAL CUP AL         | LOCATION               | 1.203 mgd        |

### **CUP PHASING**

### **Upper Floridan Aquifer**

Phasing Schedule

0.13 mgd – December 31, 2025\*

0.72 mgd – December 31, 2030\*

0.96 mgd - January 1, 2031\*

<u>Permit Condition #20.2</u> – Permittee may apply by <u>letter modification</u> to accelerate this allocation schedule by providing a demonstrated need for a greater amount up to the maximum annual allocation.

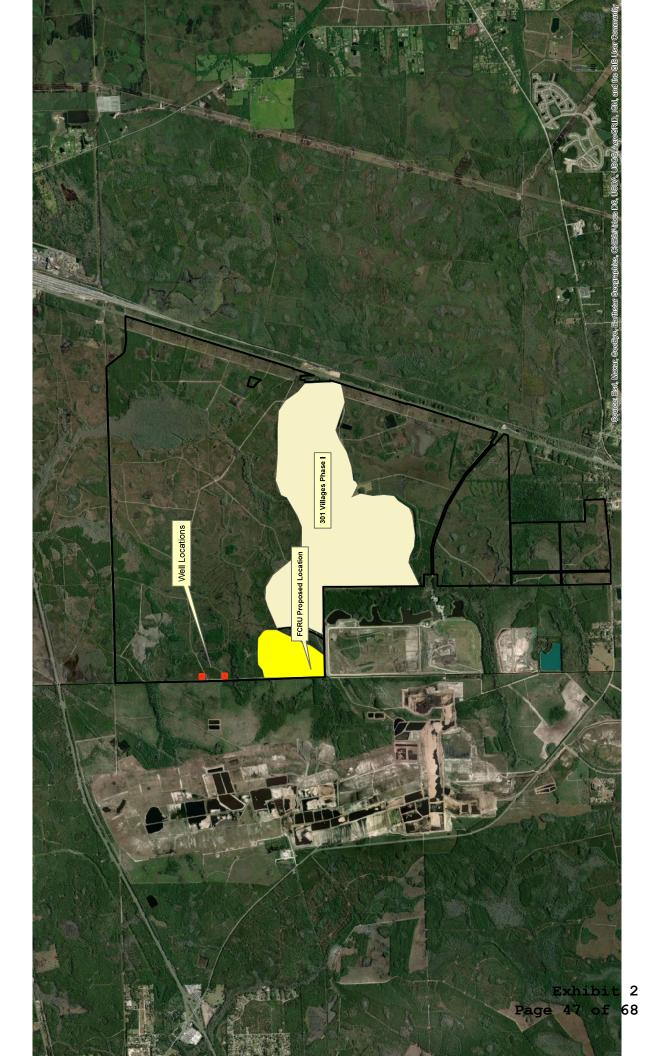
**Surface Water** 

**Intermediate Aquifer** 

0.047 – No Phasing

0.196 mgd – No Phasing

|  | <b>ber</b> 213110 - 1                                  | Pro  | ject Name   | First Coast Regiona  | l Utilities   |   |
|--|--|--|---|--|---|---|
| Sequence T   | <b>ype</b> Initial Sequ                                | ence Pe  | ermit Type  | CUP Individual -<br>Board Issued   | County  | Duval ( )   |
| Recei  | ved 12/27/2023   |  | Decision  | 07/11/2024   | Expiration  | 07/09/2044  |
| Descript   | (mgd), ann<br>(household<br>surface wat<br>system, and | ual average) of gro<br>, commercial, wate<br>er from the storm | oundwater fro<br>er utility, and<br>water manag<br>7 mgd, annua                               | om the Upper Florida<br>unaccounted for), 71<br>gement system for su<br>I average) of ground     | r (mgy) (0.96 million ga<br>in aquifer for public su<br>1.54 mgy (0.196 mgd, a<br>pplementation of the i<br>water from the interm | pply use<br>annual average) of<br>reclaimed water |
| Sta  | tus Issued   | Recomr   | mendation   | Approval   | Current Process<br>Stage  | Compliance  |
| Applic   | ant First Coast<br>Regional Ut<br>Inc.                 | ilities,   | Owner   | First Coast<br>Regional Utilities  | Agent   | Environmental<br>Research and<br>Technology LLC   |
| Total W  | <b>ells</b> 10   | Τα   | otal Pumps  | 1  |   |   |
| Copy   |  | istrict Map  | 🔇 Googl   | le Earth   |   | Contact Us  |
| ocuments)  | (40)   |  |   |  | Cha   | ange View Expo                                    |
| Group<br>Name  | Document Nam   | e Date   | Size  | Link   | Comments  |   |
| Application  | Application  | 12/27/20   | 397109  | 9 Application  | System Generated Or   | nline Application                                 |
|  | Additional Materia                                     | l:4 12/27/20   | 023 816832  | 28 Additional<br>Material:4  | Master Plan and Rec   | laimed Files                                      |
| Application  |  | 12/27/20   | 296296  | 63 Map:2   | Site Info - II. Location  | Maps  |
| Application<br>Application                               | Map:2  |  |   | A. I. Data   |   |   |
|  | Map:2<br>Additional Materia                            | l:5 12/27/20   | 118863  | 35 Additional<br>Material:5  | First Coast Regional  | Utilities Parcel I                                |
| Application  |  | l:5 12/27/20<br>12/27/20                                       |   | 35 Material:5  | First Coast Regional Site Info - II. Location   |   |
| Application<br>Application                               | Additional Materia                                     | 12/27/20   | 961729  | 35 Material:5<br>9 Map<br>2 Additional<br>Material:3   | -   |   |
| Application<br>Application<br>Application                | Additional Materia<br>Map                              | 12/27/20<br>I:3 12/27/20                                       | 961729<br>923 125952  | 35 Material:5<br>9 Map<br>2 Additional<br>Material:3<br>2 Additional<br>Material:2               | Site Info - II. Location  | Maps  |
| Application<br>Application<br>Application<br>Application | Additional Materia<br>Map<br>Additional Materia        | 12/27/20<br>I:3 12/27/20<br>I:2 12/27/20                       | 961729           923         961729           923         125952           923         125952 | 35 Material:5<br>9 Map<br>2 Additional<br>Material:3<br>2 Additional<br>Material:2<br>Additional | Site Info - II. Location  | Maps  |





### CONSUMPTIVE USE PERMIT APPLICATION



### St. Johns River Water Management District

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500 Application forms may also be submitted electronically at *floridaswater.com*.

### **SECTION I – CONTACT INFORMATION**

If necessary, attach additional sheets if there are multiple applicants, owners, agents, etc.

1. APPLICANT (Complete legal name in which permit should be issued)

|    | NAME: Avery Roberts  |    |
|----|--|----|
|    | If applicant is a business, provide a contact person: First Coast Regional Utilities   |    |
|    | ADDRESS: Po Box 238  |    |
|    | CITY, STATE, ZIP: <u>Lake Butler FL 32054-0238</u><br>PHONE: <u>(386) 496-3509</u> CELL PHONE: <u>(386) 496-3509</u>   |    |
|    | EMAIL ADDRESS: info@firstcoastutility.com<br>Do you want all correspondence to be transmitted electronically to this email address? Xes Applicant is: Owner Lessee* Other (explain)<br>*Attach copy of current lease, or written authorization from property owner | Nc |
| 2. | OWNER (If different than applicant)  |    |
|    | NAME: Avery Roberts, First Coast Regional Utilities  | _  |
|    | ADDRESS: Po Box 238  | _  |
|    | CITY, STATE, ZIP: Lake Butler FL 32054-0238<br>PHONE: (386) 496-3509 CELL PHONE: (386) 496-3509  | _  |
|    | EMAIL ADDRESS:envrestec@outlook.com  |    |
| 3. | AGENT OR CONSULTANT Address all correspondence to the person below? Yes No NAME:   | _  |
|    |  | _  |
|    |  | -  |
|    | ADDRESS<br>CITY, STATE, ZIP:   | _  |
|    | PHONE: CELL PHONE:   | _  |
|    | EMAIL ADDRESS:   | _  |
| 4. | COMPLIANCE CONTACT (Person responsible for ensuring that the permit conditions are met)  |    |
|    | NAME: Avery Roberts, First Coast Regional Utilities  | _  |
|    | ADDRESS: Po Box 278  | _  |
|    | CITY, STATE, ZIP: Lake Butler FL 32054<br>PHONE: (386) 496-3509 CELL PHONE: (386) 496-3509   | _  |
|    | EMAIL ADDRESS: envrestec@outlook.com   |    |

### SECTION II – APPLICATION INFORMATION

| For permit application guidance, please refer to the Applicant's Handbook, Consumptive Uses of Water, which is incorporated by reference in Rule 40C-2.101(1)(a), F.A.C. (A.H.). Please complete all fields. Enter N/A for any fields that are not applicable.               |
|--|
| <ol> <li>TYPE OF APPLICATION: New Modification Renewal</li> <li>If this application is for a modification, please describe the modification request and the reason the modification is necessary.</li> </ol>   |
| 2. CONSUMPTIVE USE PERMIT NO. (if application is for renewal or modification):   |
| <ul> <li>3. REQUESTED PERMIT DURATION: 20 years years (up to 20 years)</li> <li>This project qualifies for a duration greater than 20 years, per Section 373.236, F.S.</li> <li>4. PROJECT NAME: First Coast Regional Utilities COUNTY:</li> <li>PHYSICAL ADDRESS:</li></ul> |
| 5. <b>RELATED PERMITS</b> (for projects other than Public Supply)  |
| Environmental Resource Permit:       MSSW/ERP No(s):   |
| INDUSTRIAL WASTEWATER (IWW) PERMIT: IWW Permit No(s):  |
| NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT:  |
| NPDES Permit No(s):  |
| SECTION III – USE TYPE CATEGORIES  |

Please check all applicable use categories associated with this application and complete the associated supplemental form(s) indicated. The **Minor Individual Supplemental Form** (Form No. 40C-2.900(2)) can be completed in lieu of Supplemental Forms A through G if all of the following criteria are met:

- Use is less than 100,000 gallons per day
- Withdrawal facilities (wells or pump intakes) are less than 8-inches diameter
- Combined withdrawal capacity is less than 1,000,000 gallons per day
- Use is not for Mining/Dewatering
- Use is for Public Supply where end users are not individually metered

| Use Type Category   | Supplemental Form                  |
|---|------------------------------------|
| Agricultural (e.g., crops, livestock, nursery, aquaculture, pasture)  | Form A<br>Form No. 40C-2.900(1)(a) |
| <b>Commercial / Industrial</b> (e.g., service business, food and beverage production, cooling and heating, commercial attraction, manufacturing, chemical processing, power generation) | Form B<br>Form No. 40C-2.900(1)(b) |
| <b>Landscape / Recreation</b> (e.g., irrigation of parks, cemeteries, landscaped areas, golf courses, athletic fields, playgrounds)   | Form C<br>Form No. 40C-2.900(1)(c) |
| Mining / Dewatering (e.g., water use or removal associated with construction or excavation)   | Form D<br>Form No. 40C-2.900(1)(d) |
| Public Supply (e.g., public or privately owned potable water supply utility)  | Form E<br>Form No. 40C-2.900(1)(e) |
| <b>Environmental / Other</b> (e.g., aquifer remediation, environmental enhancement, or the use of water for other purposes)   | Form F<br>Form No. 40C-2.900(1)(f) |
| Institutional (e.g., hospital, university, military base, correctional facility)  | Form G<br>Form No. 40C-2.900(1)(g) |

| Type of<br>Water Use<br>(refer to<br>Section III)          |  |  |  |  |
|--|--|--|--|--|
| Last Meter<br>Check /<br>Method<br>Validation <sup>6</sup> |  |  |  |  |
| Type of Water<br>Use<br>Accounting<br>Method <sup>5</sup>  |  |  |  |  |
| Status <sup>4</sup><br>(include<br>date if<br>proposed)    |  |  |  |  |
| Total<br>Depth<br>(feet)                                   |  |  |  |  |
| Casing<br>Depth<br>(feet)                                  |  |  |  |  |
| Casing<br>Diameter<br>(inches) <sup>3</sup>                |  |  |  |  |
| Pump Type <sup>2</sup>                                     |  |  |  |  |
| Capacit<br>y<br>(gpm)                                      |  |  |  |  |
| Owner's<br>Well<br>Name                                    |  |  |  |  |
| Florida Unique<br>Well ID<br>(if available)                |  |  |  |  |
| District ID<br>(if<br>available)                           |  |  |  |  |
| Site or<br>Wellfield<br>Name <sup>1</sup>                  |  |  |  |  |

SUMMARY OF GROUNDWATER (WELL) FACILITIES

(please attach additional facility tables if necessary) **SECTION IV – SOURCES OF WATER** 

~ ∩

If project consists of separate or non-contiguous pieces of property or wellfields Centrifugal (impeller located above water level), submersible (pump set below water level), turbine (motor at ground surface that drives an impeller below water level), vacuum underdrain (typically used for dewatering), well point system (typically used for dewatering), or other (any pump that does not fall into one of the categories previously listed) The casing diameter is defined as the largest permanent water-bearing casing of the well at land surface.

Active (currently in use), Inactive (capped, does not have power, or the connection to the water supply system has been severed), Abandoned (plugged and abandoned in accordance with 40C-3, Florida Administrative Code), or Proposed (include anticipated construction date) Flow Meter, Time Clock / Pump Run Time, Hour Meter, Digital Electric Meter, Analog Electric Meter

Enter the date of the last flow meter accuracy check or alternative method validation

∾ **∀Exh**ibit 2 Page 50 of 68

Form No. 40C-2.900(1), effective August 2014 Incorporated by reference in 40C-2.900(1), F.A.C.

|  |  |  |   | Pump   |   |                                     |  |   |   |  |   |
|--|--|--|---|--|---|-------------------------------------|--|---|---|--|---|
| Site Name <sup>1</sup>   | District ID<br>(if<br>available)   | Owner's Pump<br>Name   | Pump<br>Capacity<br>(gpm)                                       | Linches)   | Pump Type <sup>2</sup>  | Name of<br>Surface<br>Water<br>Body | Type of<br>Surface<br>Water<br>Body <sup>3</sup> | Status <sup>4</sup><br>(include<br>date if<br>proposed) | Type of Water<br>Use<br>Accounting<br>Method <sup>5</sup> | Last Meter<br>Check /<br>Method<br>Validation <sup>6</sup> | Type of<br>Water Use<br>(refer to<br>Section III) |
|  |  |  |   |  |   |                                     |  |   |   |  |   |
|  |  |  |   |  |   |                                     |  |   |   |  |   |
| <ol> <li>If project consist</li> <li>Centrifugal (imp<br/>used for mining)</li> <li>Ditch/canal, lake</li> </ol> | ts of separate or<br>eller located abo<br>, hydraulic dewe<br>ypond (natural), | If project consists of separate or non-contiguous pieces of property or welffields<br>Centrifugal (impeller located above water level), submersible (pump set below water level), turbine (motor at ground surface that drives an impeller below water level), hydraulic dredge pump (typically<br>used for mining), hydraulic dewatering pump (typically used for construction or mining), other (any pump that does not fall into one of the categories previously listed)<br>Ditch/canal, lake/pond (natural), lake/pond (artificial), river/creek, spring, mining/borrow pit | es of propert<br>nersible (pun<br>y used for co<br>river/creek, | y or wellfield<br>ip set below<br>instruction or<br>spring, mining | s<br>water level), turbine<br>mining), other (any<br>g/borrow pit | (motor at grou<br>pump that doe     | ind surface that<br>s not fall into c            | at drives an impe                                       | ller below water lev<br>ries previously liste             | el), hydraulic dredg<br>d)                                 | e pump (typically                                 |

SUMMARY OF SURFACE WATER (PUMP) FACILITES

Active (currently in use), inactive (does not have power, or the connection to the water supply system has been severed), Proposed Flow Meter, Time Clock / Pump Run Time, Hour Meter, Digital Electric Meter, Analog Electric Meter Time clock in the accuracy check or alternative method validation ო 4 ი თ

## SUMMARY OF CONNECTION POINT FACILITIES

(including reclaimed water) purchased from a water supplier enters a project site. Connection points include locations where potable or non-potable water

| Type of Water<br>Use (refer to<br>Section III)               |  |
|--|--|
| Last Meter<br>Check /<br>Method<br>Validation <sup>6</sup>   |  |
| Type of Water<br>Use Accounting<br>Method <sup>5</sup>       |  |
| Status <sup>4</sup><br>(include date if<br>proposed)         |  |
| Type of Surface<br>Water Body <sup>3</sup>                   |  |
| Water Supplier<br>Name <sup>2</sup>                          |  |
| Owner's Connection Water Supplier<br>Point Name <sup>2</sup> |  |
| District ID<br>(if available)                                |  |
| Site Name <sup>1</sup>                                       |  |

1 If project consists of separate or non-contiguous pieces of property or wellfields

### SECTION V – USE OF LOWEST QUALITY WATER AND EVALUATION OF RECLAIMED WATER FEASIBILITY

The applicant may be required to evaluate the feasibility of utilizing reclaimed water and/or other lower quality water sources. The feasibility analysis must be completed as outlined in Section 2.3.3(e), A.H.

### SECTION VI – SUMMARY OF REQUESTED WATER USE

Summarize the requested water use from each supplemental form (Agricultural, Public Supply, Commercial / Industrial, etc.) in the table below. Provide projections for each source, at five-year intervals, for the requested permit duration. If the requested permit duration exceeds 20 years, please attach a supplemental sheet providing additional five-year projections for each source.

|                | Requested Amounts and Source(s) of Water |       |       |       |  |  |  |  |  |
|----------------|--|-------|-------|-------|--|--|--|--|--|
| Year           | Upper Floridan<br>(mgy²)                 | (mgy) | (mgy) | (mgy) | Total<br>Requested<br>Water Use<br>(mgy) |  |  |  |  |
| 2023 -<br>2028 | 350.4                                    |       |       |       |  |  |  |  |  |
| 2028 -<br>2033 | 350.4                                    |       |       |       |  |  |  |  |  |
| 2033 -<br>2038 | 350.4                                    |       |       |       |  |  |  |  |  |
| 2038 -<br>2043 | 350.4                                    |       |       |       |  |  |  |  |  |

<sup>1</sup> Provide the name of the water source. Examples include upper Floridan aquifer, stormwater pond, surficial aquifer, Davis Lake. <sup>2</sup> Million gallons per year

### SECTION VII – AQUIFER STORAGE AND RECOVERY (complete if applicable)

| ASR<br>Facility<br>Name | Source of<br>Stored<br>Water <sup>1</sup> | Storage<br>Aquifer<br>Name | Recovery<br>Water<br>Destination | Projected<br>Demand<br>Average<br>(mgy) | Projected<br>Demand<br>Maximum<br>(mgy) | Projected<br>Injected<br>Average<br>(mgy) | Projected<br>Injected<br>Maximum<br>(mgy) |
|-------------------------|---|----------------------------|----------------------------------|---|---|---|---|
|                         |   |                            |                                  |   |   |   |   |
|                         |   |                            |                                  |   |   |   |   |

<sup>1</sup> Aquifer name, surface water body, water treatment plant name.

Please describe any projected increases or decreases (from historical average) in the amounts stored or recovered.

### SECTION VIII – IMPACT EVALUATION

When determining whether the permit applicant has provided reasonable assurances that the conditions for issuance in Rule 40C-2.301, F.A.C., are met, the District will consider the projected impacts of the proposed consumptive use on an individual and cumulative basis. In order to provide reasonable assurance, studies and/or impact evaluations may be required. Please refer to the Applicant's Handbook for guidance regarding the impact evaluations and attach analyses, if applicable.

### **SECTION IX – APPLICANT CERTIFICATION**

I certify that to the best of my knowledge and belief, all of the information provided on this form and in any attachment to it is correct. I also certify that I have legal authority to execute this application for the applicant and certify that the applicant will have sufficient legal authority to undertake the activities described herein. I understand that any material false statement in an application to continue, initiate, or modify a use, or any material false statement of fact required of the permittee, may result in revocation, in whole or in part, of the permit (Section 373.243(1), F.S.). With advance notice, I agree to provide St. Johns River Water Management District staff, with proper identification, entry to the project site for the purpose of performing analyses of the site for determining whether the conditions for issuance will be met. Further, if a permit is granted, I agree that, with advance notice, District staff with proper identification shall have permission to enter, inspect, collect samples, and take measurements of permitted facilities to determine compliance with the permit conditions and permitted plans and specifications.

(If applicable) I authorize \_\_\_\_\_\_ to act as my agent for permit application coordination.

| Avery Roberts<br>APPLICANT'S NAME<br>(print or type) | (electronically signed)<br>APPLICANT'S SIGNATURE | 22-Dec-2023<br>DATE |  |
|--|--|---------------------|--|
| AUTHORIZED AGENT'S NAME<br>(print or type)           | AUTHORIZED AGENT'S SIGNATURE                     | DATE                |  |

When an application that will be considered by the District's Governing Board is complete, the applicant will be notified of the date of the hearing (Governing Board meeting) at which the application will be considered at least 14 days in advance. The Governing Board normally meets on the second Tuesday of the month.

### SECTION X – APPLICANT CHECKLIST

### The following items must be included with the permit application submittal:

Proof of Property Control (e.g., deed, lease), if not already on file with the District

Application Fee (refer to online fee schedule or Applicant's Handbook)

Location/Site Map

Supplemental Form(s) and associated supporting information (e.g., maps, calculations)

Water Conservation Plan

### **Additional Information**

Application submitted and electronically signed by Avery Roberts on 22-Dec-2023.

### **Additional Addresses**

| Water Use                      | Avery Roberts                             |  |  |  |  |  |  |
|--------------------------------|---|--|--|--|--|--|--|
| Reporting (EN-50)              | First Coast Regional Utilities            |  |  |  |  |  |  |
| Contact                        | Po Box 278                                |  |  |  |  |  |  |
|                                | Lake Butler, FL 32054                     |  |  |  |  |  |  |
|                                | envrestec@outlook.com                     |  |  |  |  |  |  |
|                                | (386) 496-3509                            |  |  |  |  |  |  |
|                                | (386) 496-3509                            |  |  |  |  |  |  |
| Consultant Michael John Fuller |   |  |  |  |  |  |  |
|                                | Environmental Research and Technology LLC |  |  |  |  |  |  |
|                                | 356 SW DAYTIME LN                         |  |  |  |  |  |  |
|                                | LAKE CITY, FL 32024                       |  |  |  |  |  |  |
|                                | envrestec@outlook.com                     |  |  |  |  |  |  |
|                                | 3863442625                                |  |  |  |  |  |  |
|                                | (386) 344-2625                            |  |  |  |  |  |  |



### CONSUMPTIVE USE PERMIT Public Supply – Form E



### St. Johns River Water Management District

4049 Reid Street • P.O. Box 1429 • Palatka, FL 32178-1429 • (386) 329-4500 Application forms may also be submitted electronically at *www.sjrwmd.com*.

### SECTION E1 – SITE INFORMATION

- 1. Submit a map showing: [if available, provide items A through C in a District-approved electronic format, e.g. ESRI shapefile, AutoCAD, DXF, KMZ, or compatible GIS file]:
  - A. The Distribution Area boundary(ies) where service is currently being provided and where the utility is proposing to provide service during the permit duration;
  - B. The Authorized Water Service Area or Franchise Area boundary in which the utility is legally authorized to provide potable water service;
  - C. All existing and proposed withdrawal and connection point locations. Label all wells, pumps and connection points so they match the IDs provided in Section IV (Sources of Water) of the main application form (Form No. 40C-2.900(1), which is incorporated by reference in Rule 40C-2.900(1), F.A.C.);
  - D. A north arrow and map scale; and
  - E. Labeled landmarks such as major roads and political boundaries.

### SECTION E2 – POPULATION AND PER CAPITA USE

 Historical data must be provided for the previous five years (including the most recent calendar year) and projected use at a minimum of five-year intervals for the requested permit duration. If historical data has been previously submitted to the District to fulfill periodic reporting requirements, the historical data may be left blank.

| Year       |       | Average Number<br>of Active<br>Residential<br>Connections | Total Number<br>of Residential<br>Dwelling Units<br>(if available) | Residential<br>Population<br>Served <sup>1</sup> | Residential<br>Water Use<br>Average Day<br>(mgd) | Uniform<br>Residential Per<br>Capita Use <sup>2</sup><br>(gpcd) <sup>3</sup> |
|------------|-------|---|--|--|--|--|
| Historical |       |   |  |  |  |  |
|            | 2025  | 420   | 420  | 1037   | 0.088  | 85   |
| Projected  | 2030P | 3413  | 3413   | 8430   | 0.691  | 81.9   |

Calculated as the Average Number of Active Residential Connections or Total Number of Residential Dwelling Units multiplied by the average number of persons per household.

<sup>2</sup> Calculated as Total Residential Water Use Average Day divided by Residential Population Served. Residential water use reflects finished water.

<sup>3</sup> gpcd = gallons per capita per day

2. Please attach a description of the methodology used to estimate population. Include supporting calculations and describe any deviations from District-approved methods as outlined in the Applicant's Handbook.

SECTION E3 – WATER DEMAND COMPONENTS

Historical and Projected Water Demands.

If historical data has been previously submitted to the District to fulfill periodic reporting requirements, the historical data may be left blank. Projections must be provided at a minimum of five-year intervals for the requested permit duration.

| Annual Average<br>Daily Raw Water<br>Demand <sup>®</sup> (mgd)                     | 0   | 0 | 0               | 0 | 0 | 0.13   | 0.95      |              |             |   |
|--|-----|---|-----------------|---|---|--------|-----------|--------------|-------------|---|
| Water Treatment<br>Reject <sup>7</sup><br>Average Day<br>(mgd)<br>(if applicable)  |     |   |                 |   |   | 0      | 0         |              |             |   |
| Water Losses <sup>6</sup><br>Average Day<br>(mgd)                                  |     |   |                 |   |   | 0.0062 | 0.0448    |              |             |   |
| Water Utility⁵<br>Average Day<br>(mgd)   |     |   |                 |   |   | 0.001  | 0.009     |              |             |   |
| Other <sup>4</sup><br>(describe)<br>Average Day<br>(mgd)                           |     |   |                 |   |   | 0      | 0         |              |             |   |
| Routine<br>Exports<br>Average Day <sup>3</sup><br>(mgd)                            |     |   |                 |   |   | 0      | 0         |              |             |   |
| Recreation and<br>Landscape<br>Irrigation<br>Average Day <sup>2</sup><br>(mgd)     |     |   |                 |   |   | 0      | 0         |              |             |   |
| Commercial /<br>Industrial /<br>Institutional <sup>1</sup><br>Average Day<br>(mgd) |     |   |                 |   |   | 0.035  | 0.206     |              |             |   |
| Residential<br>Water Use<br>Average Day<br>(mgd)<br>(from Section<br>E2 above)     |     |   |                 |   |   | 60'0   | 0.69      |              |             |   |
| Year   | A N |   | storic<br>r Der |   | ٨ | 2025   | ed m2030P | oject<br>Del | Pro<br>Vate | ٨ |

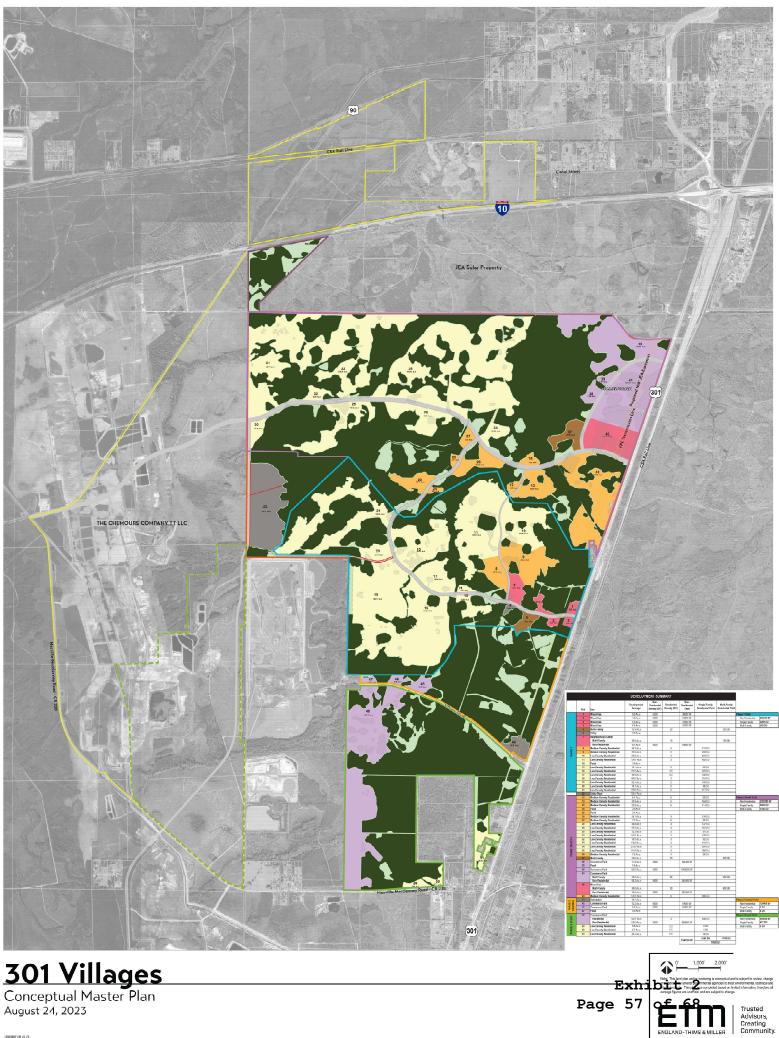
<sup>1</sup> Metered bulk industrial and commercial use including businesses, manufacturing facilities, and institutions such as schools and hospitals, including irrigation uses associated with these facilities whose irrigation source is provided by the utility.

associated with these facilities whose irrigation source is provided by the utility.
<sup>2</sup> Use for irrigation of common areas such as parks, athletic fields, cemeteries, medians, and rights-of-way.
<sup>3</sup> Water routinely supplied to other utilities through interconnections.

4 π xamples of "Other" could include supplementation of a reclaimed water system, environmental restoration, or other uses not listed above. 9 δ Water used for line flushing, well lubrication, and other water system maintenance.

<sup>6</sup> Water losses including leakage from transmission and storage facilities and other unknown water losses. <sup>10</sup> Reject water from treatment systems such as reverse osmosis

He annual average day raw water demand; should represent the sum of the columns to the left



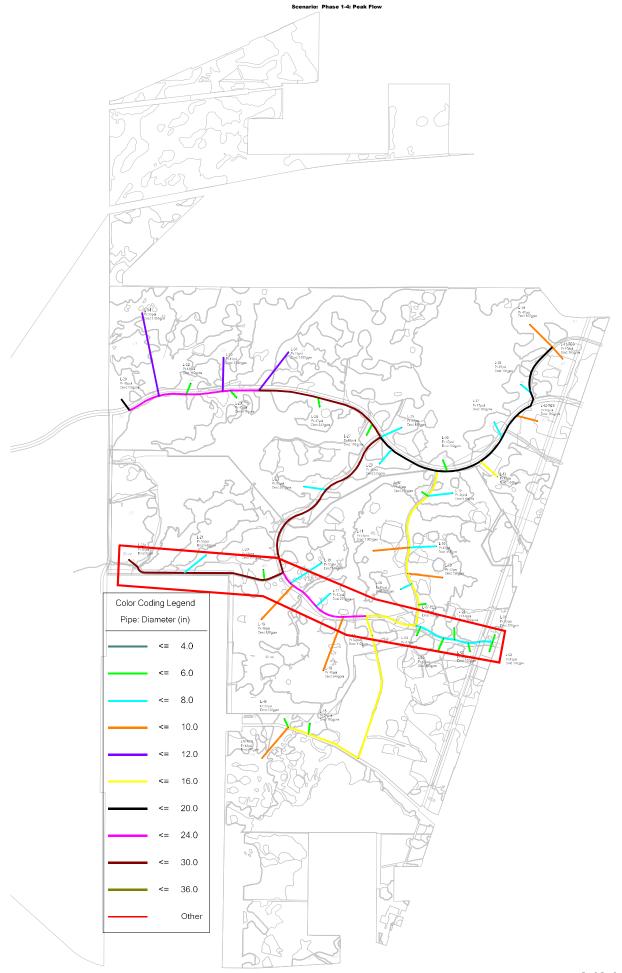
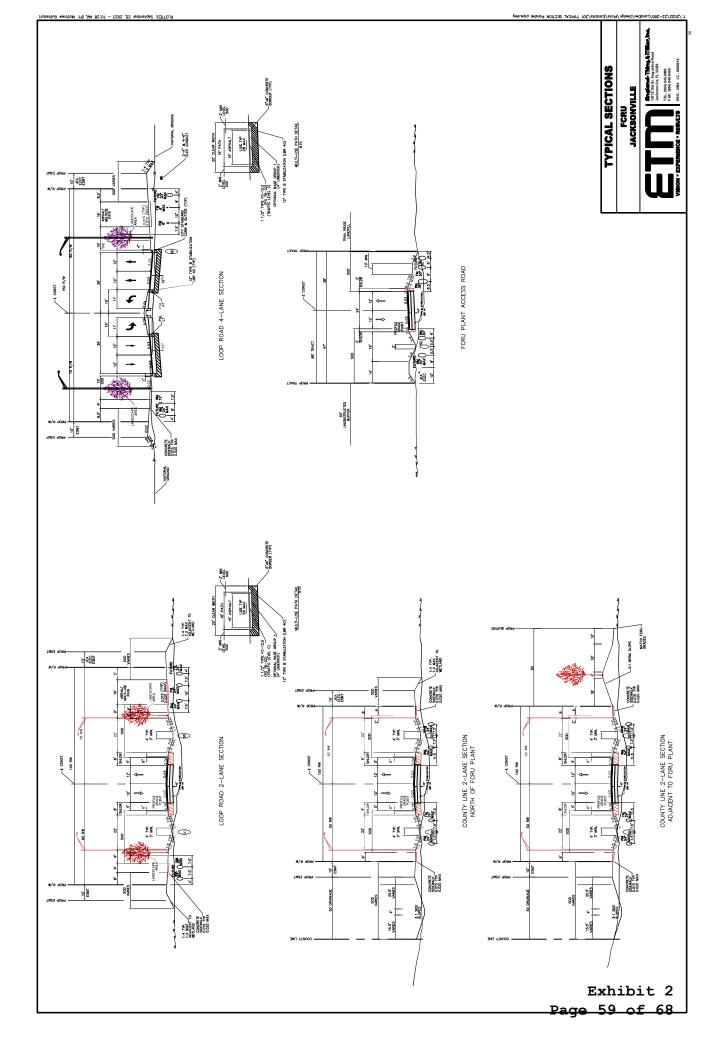
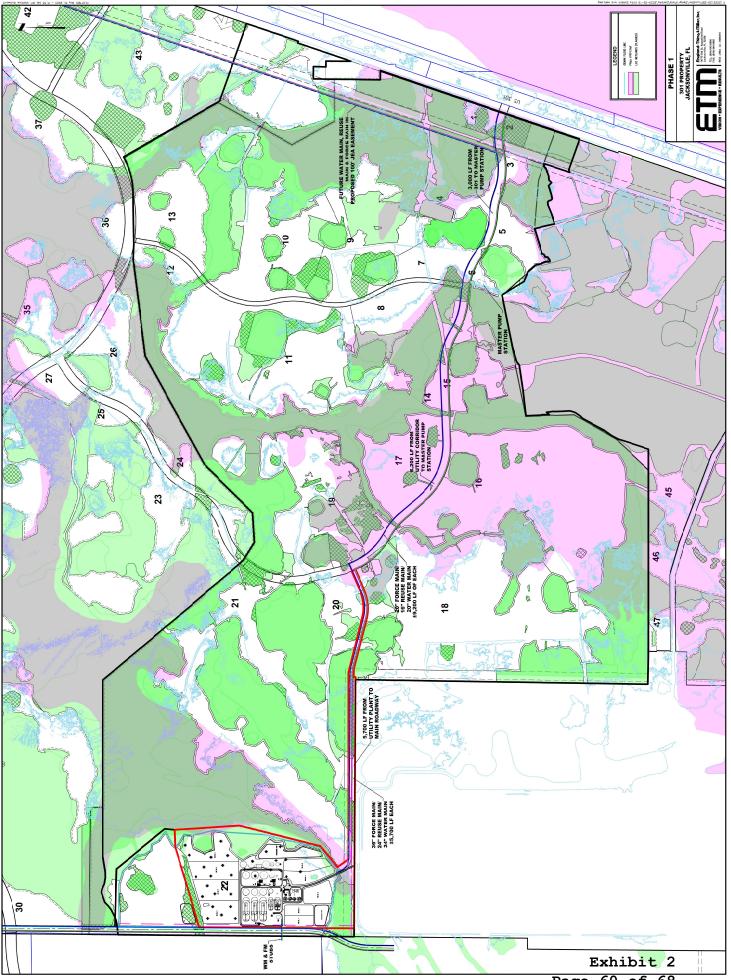


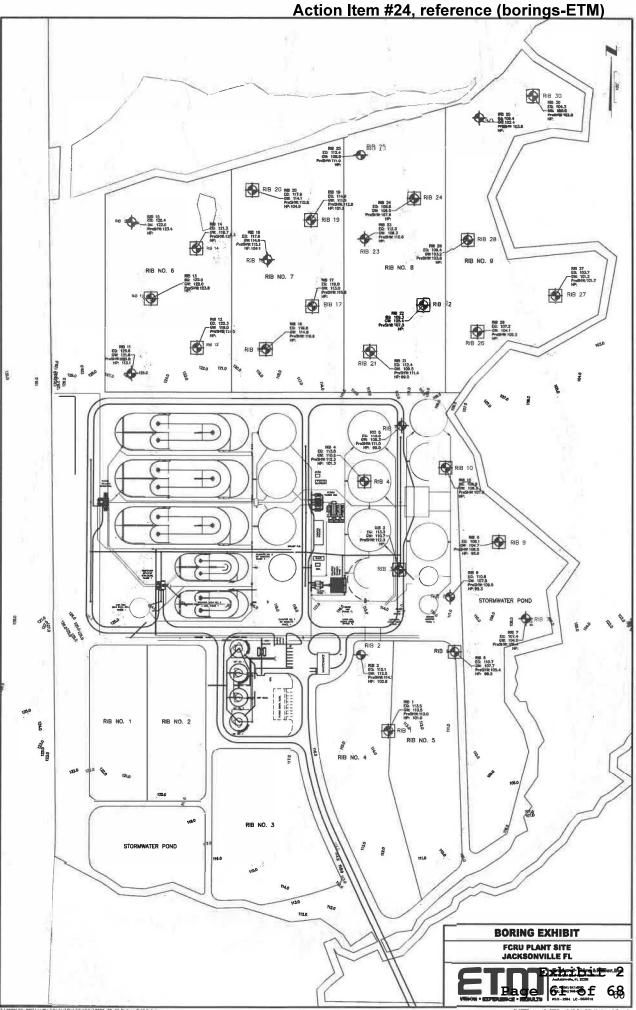
Exhibit 2 Page 58 of 68

> WaterCAD [10.04.00.108] Page 1 of 1 57





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2. Attach a description of the methodology used to develop projections for each column in the Projected Water Demands table above. Include supporting calculations and describe any deviations from District-approved methods as described in the Applicant's Handbook.

### SECTION E4 – HISTORICAL AND REQUESTED WATER USE

### 1. Historical and Projected Water Supply Sources

Provide the historical and projected water supply from each source. Sources include any bulk water purchases or transfers. The sum of all sources should equal the Annual Average Daily Raw Water Demand.

|                            |      | Requested Amounts and Source(s) of Water (mgy)    |                               |                  |                  |                  |  |  |  |
|----------------------------|------|---|-------------------------------|------------------|------------------|------------------|--|--|--|
|                            | Year | Annual<br>Average<br>Daily Raw<br>Water<br>Demand | Source 1<br>Name <sup>1</sup> | Source 2<br>Name | Source 3<br>Name | Source 4<br>Name |  |  |  |
|                            |      | (mgd)<br>Section E3<br>Table 1                    | (mgy)                         | (mgy)            | (mgy)            | (mgy)            |  |  |  |
|                            |      |   |                               |                  |                  |                  |  |  |  |
| Historical<br>Water Supply |      |   |                               |                  |                  |                  |  |  |  |
| stori                      |      |   |                               |                  |                  |                  |  |  |  |
| Hi<br>Wat                  |      |   |                               |                  |                  |                  |  |  |  |
|                            |      |   |                               |                  |                  |                  |  |  |  |
| ~                          |      |   |                               |                  |                  |                  |  |  |  |
| Projected<br>Water Supply  |      |   |                               |                  |                  |                  |  |  |  |
|                            |      |   |                               |                  |                  |                  |  |  |  |
| Ма<br>Ма                   |      |   |                               |                  |                  |                  |  |  |  |
|                            |      |   |                               |                  |                  |                  |  |  |  |

<sup>1</sup> Provide the name of the water source. Examples include upper Floridan aquifer, stormwater pond, surficial aquifer, Davis Lake

### 2. Wellfield Operation Schedule

Describe the typical wellfield operation schedule, including source and/or facility specific allocations if applicable. Identify which wells are primary, secondary (peaking), stand-by, and describe the well rotation schedule.

### SECTION E5 – REUSE FEASIBILITY

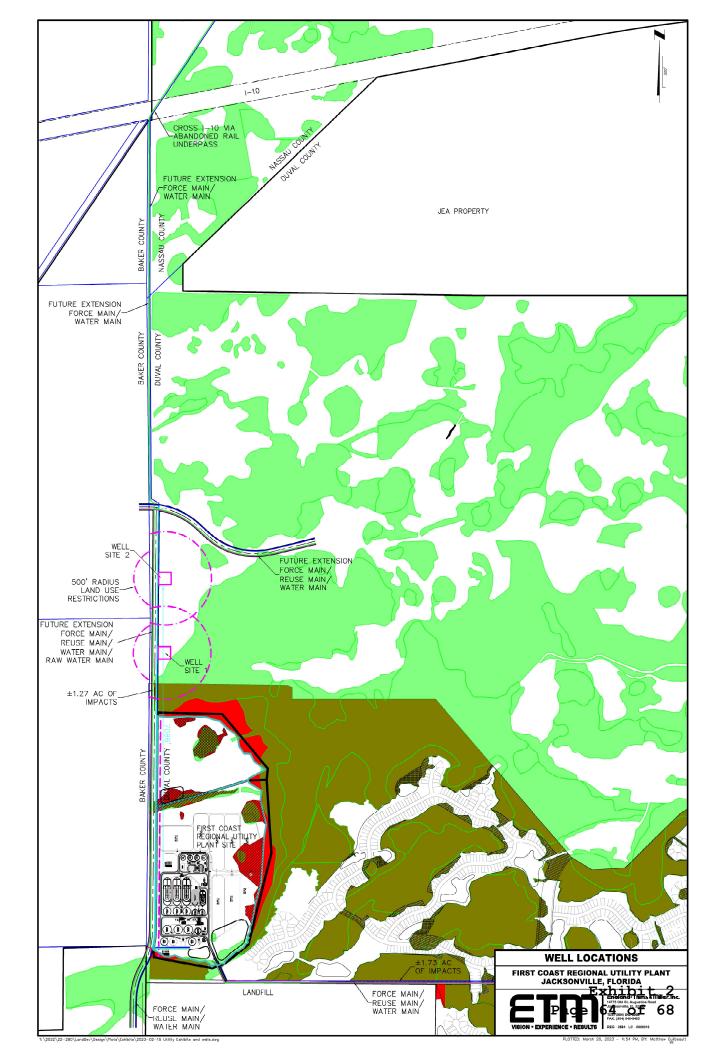
For public water supply utilities that operate a domestic wastewater treatment facility, please provide an analysis of the economic, environmental, and technological feasibility of making reclaimed water available or increasing reclaimed water availability for beneficial reuse. Pursuant to subsection 403.064(6), F.S., a reuse feasibility study prepared in accordance with subsection 403.064(2), F.S., satisfies the requirement to conduct a reuse feasibility study.

### SECTION E6 – WATER CONSERVATION

### 1. CONSERVATION

Please attach a copy of the conservation plan, and include a copy of any water conservation ordinances related to the plan. If your facility is located in a Water Resource Caution Area, there may be additional water conservation requirements as described in section 2.2.2.5 of the Applicant's Handbook.

- A. Indicate whether the conservation program is a Standard Conservation Plan or a Goalbased Plan.
  - Standard Conservation Plan Goal-based Plan
- B. Please attach a copy of the current water rate structure.





June 21, 2022

Work Order No. 22-316.00 File No. 128H-40.00A

### **Utility Parcel**

A portion of Sections 7 and 18, Township 3 South, Range 23 East, Duval County, Florida, being a portion of Parcel 1, as described and recorded in Official Records Book 18162, page 1115, of the current Public Records of said county, being more particularly described as follows:

For a Point of Beginning, commence at the Southwest corner of said Section 7; thence North 00°29'36" East, along the Westerly line of said Section 7, a distance of 2184.92 feet; thence South 89°38'01" East, departing said Westerly line, 67.37 feet; thence South 68°12'16" East, 28.40 feet; thence North 80°17'01" East, 53.06 feet; thence South 89°09'27" East, 95.68 feet; thence North 75°09'16" East, 120.81 feet; thence South 88°57'30" East, 77.39 feet; thence North 76°51'58" East, 86.68 feet; thence North 54°07'04" East, 81.61 feet; thence North 69°48'51" East, 101.93 feet; thence North 86°22'01" East, 88.81 feet; thence North 75°11'12" East, 176.09 feet; thence North 81°03'52" East, 226.45 feet; thence North 83°57'21" East, 120.26 feet; thence North 74°24'26" East, 188.43 feet; thence North 70°12'44" East, 50.30 feet; thence Due East, 93.49 feet; thence South 78°41'24" East, 87.82 feet; thence South 69°46'31" East, 99.64 feet; thence North 88°09'09" East, 71.76 feet; thence South 00°49'21" West, 168.48 feet; thence South 25°13'58" East, 205.43 feet; thence South 15°56'43" East, 171.05 feet; thence South 01°57'09" West, 188.08 feet; thence South 08°31'51" East, 43.20 feet; thence South 32°27'40" East, 77.21 feet; thence South 43°16'33" East, 54.28 feet; thence South 05°17'07" West, 575.23 feet; thence South 23°38'56" West, 375.95 feet; thence South 19°47'17" West, 494.18 feet; thence South 57°51'46" West, 453.26 feet; thence South 74°34'40" West, 148.03 feet; thence South 31°57'45" West, 175.66 feet; thence North 88°12'36" West, 61.26 feet; thence North 80°41'27" West, 238.26 feet; thence North 82°13'36" West, 127.37 feet; thence South 83°39'35" West, 121.47 feet; thence South 71°33'54" West, 118.78 feet; thence North 74°55'53" West, 108.36 feet; thence South 74°30'41" West, 115.54 feet; thence North 69°08'44" West, 60.29 feet; thence North 80°49'45" West, 172.37 feet to a point lying on the Westerly line of said Section 18; thence North 00°29'20" East, along said Westerly line, 182.36 feet to the Northwest corner thereof and the Point of Beginning.

Containing 108.48 acres, more or less.

