



10-Year Water Supply Facilities Work Plan –
2026 Update

September 2025 - Draft

Prepared for: City of Sunrise

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1.0 CHAPTER 1- INTRODUCTION

The State of Florida has enacted legislation to strengthen the linkage between growth and water availability based on specific demands identified in the water supply planning process. This Ten-Year Water Supply Facilities Work Plan (Work Plan) has been prepared for the City of Sunrise (City), located within Broward County (County). It has been prepared in response to the requirements for local governments to incorporate the Work Plan into the Comprehensive Plan. Local governments are required to revise the “Affected Elements” of their Comprehensive Plan within 18 months after the date their Regional Water Supply Plan is adopted, along with a submittal for Comprehensive Plan Amendments for review by the appropriate reviewing agencies.

1.1 BACKGROUND

Beginning in 2002 and continuing through the passage of the Community Planning Act in 2011, the State of Florida enacted legislation to address the State’s water supply needs. The Florida Legislature enacted bills during the 2002, 2004, 2005, 2011, 2012, 2015, and 2016 sessions to address the state’s water supply needs. These bills, particularly Senate Bills 360 and 444 (2005 legislative session), significantly changed Chapters 163 and 373 of the Florida Statutes (F.S.) by strengthening the statutory links between the regional water supply plans (RWSPs) prepared by the water management districts and the comprehensive plans prepared by local governments. In addition, these bills established the basis for improving coordination between Regional Water Supply Planning and local land use planning.

The Rule 9J-5, Minimum Criteria for Review of Local Government Comprehensive Plans and Plan Amendments, Evaluation and Appraisal Reports, Land Development Regulations and Determinations of Compliance, Florida Administrative Code (FAC) was repealed in 2011 as part of the changes to Chapter 163, F.S.

The 2023-2024 Lower East Coast Water Supply Plan Update (2024 LECWSP Update) was prepared by the South Florida Water Management District (SFWMD) and approved by the District’s Governing Board on September 12, 2024. Therefore, local governments within the Lower East Coast Region are required to amend their comprehensive plans and include an updated Ten-Year Water Supply Facilities Work Plan and related planning elements by March 12, 2026.

As a result, local governments located within an area that has a Regional Water Supply Needs and Sources Plan, must prepare a Ten-Year Water Supply Facilities Work Plan (Work Plan) that ensures linkage between the Regional Water Supply Plan and their individual Comprehensive Plans. Each Work Plan is required to address infrastructure, conservation, capital improvements, and intergovernmental coordination in addition to water supplier coordination.

Please see **Appendix A**; Growth Policy; County and Municipal Planning; Land Development Regulation, Chapter 163, F.S. Related to Water Supply Planning, provides a summary of regulatory requirements that impact local governments and their water supply planning efforts.



The 2024 LECWSP Update identifies regional water supply issues that continue to influence the water supply planning efforts, the regional water supply planning issues that impact the City of Sunrise, along with the City's efforts to address these issues are listed below:

- Climate change – The City of Sunrise, along with its municipal neighbors, understands the need for water utilities and local governments to begin to formalize a coordinated approach to integrate water supply and climate change considerations and work to provide relevant updates to the Ten-Year Water Supply Facilities Work Plan and enhance Goals, Objectives and Policies (GOPs) of its comprehensive plan.
- Regional Water Availability (RWA) Rule February 6, 2007 – The RWA limits the water withdrawals from the Biscayne Aquifer to the maximum quantity during five consecutive years preceding April 2006. Subsequently, the City's Water Use Permit limited the City's Biscayne Aquifer withdrawal to 34.09 MGD on an annual average day basis. Demands in excess of this amount would need to be met by conservation and alternative water supplies.
- Construction of additional storage systems – The C-51 Reservoir project captures stormwater in the wet season and releases it during the dry season to recharge the Biscayne Aquifer. The City of Sunrise is one of the participating utilities that has executed an agreement with Palm Beach Aggregates (PBA). The operation of the reservoir has been handled by C-51 Reservoir Inc. since October 2023.
- Expanded use of reclaimed water to meet future water supply demands - In 2011 and 2012, the City performed a feasibility assessment in terms of offsetting non-potable groundwater withdrawals to increase the availability of the Biscayne Aquifer for potable water supply purposes. The City completed 0.99 MGD of reuse facility at Southwest WRF in 2010. The Construction of the first phase of the 2 MGD Reuse facility at the Sawgrass WWTP was completed in 2019. The City also completed construction of Reuse pipeline Phase I to make reclaim water available to the Sawgrass Corporate Parkway area in 2020.
- Planning and wellfield management to prevent undesirable changes in Floridan Aquifer water - According to the 2018 LECWSP Update, public water supply utilities in the LEC Planning Area are proposing substantial increases in FAS development over the planning horizon. Increased utilization of the FAS will tend to increase the risk of water quality degradation. The City has recognized the risks of changes in water quality and quantity in FAS since the construction of the Floridan well at Melaleuca site. The City's 2008 Water Use Permit (WUP) had allocation at Park City but considering the close proximity to the Town of Davie's Floridan wells, the City proactively shifted the two Floridan wells and constructed these wells at the Sawgrass Corporate Parkway.

The City of Sunrise has adopted policies in its comprehensive plan to promote greater water conservation, including use of reclaim water and discouragement of the use of potable water for irrigation, continuous monitoring of water use within limiting conditions of the Water Use Permit, adopting a level of service consistent with the SFWMD's LEC Water Supply Plan, collaborative projects with neighboring utilities for sharing strained water natural resources, and discouraging excessive water used for construction purposes. The City has replaced many of its plant and system meters to improve water accounting. The City is in the process of installing Advanced Meter Infrastructure (AMI) throughout the service area to proactively perform Water Demand Management, identify unaccounted for water loss, control water loss resulting from leaks, and lower the non-revenue water.



The City continues to participate in collaborative programs and partnerships with the SFWMD, Broward County and other local utilities for ensuring best management of the regional water supplies, the C-51 Reservoir Operations collaboration, the Broward County Conservation Pays program, Broward County's Naturescape Irrigation Service program, the Southeast Florida Utilities Council, and the National Water Reuse Association and participates in the Broward County Water Matters Day, the City's Earth Day, the Climate Change Summits and other conservation events.

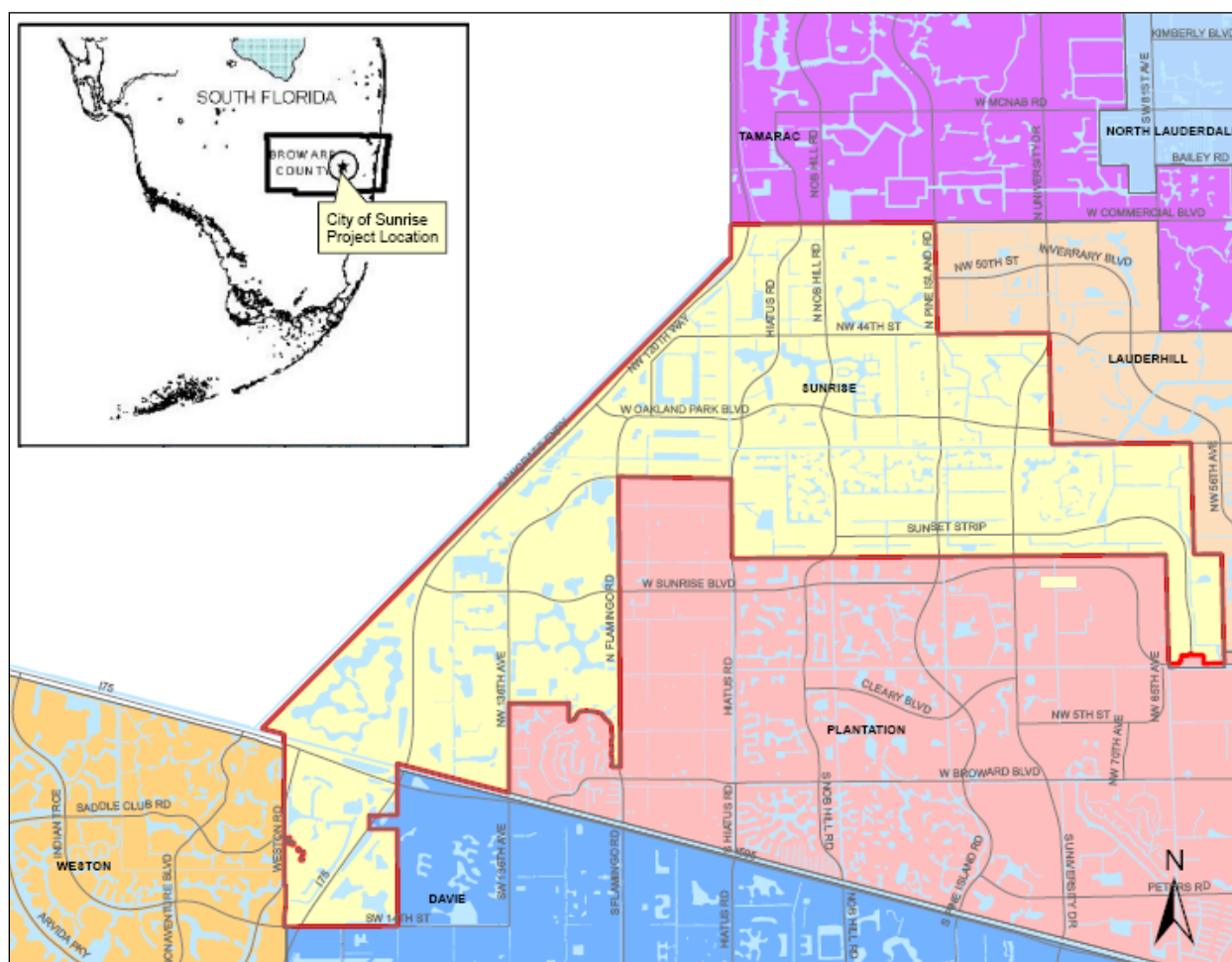
1.2 PURPOSE

The purpose of this Work Plan is to assess the City's current water sources, associated facilities, evaluate their adequacy to meet the projected raw and treated water demands, to develop and adopt a Comprehensive Plan amendment that must include updates to the Work Plan [as outlined in Section 163.3177(6)(c)3., F.S.], and be consistent with the water resource and water supply development projects listed in the 2024 LECWSP Update. The Work Plan must also cover at least a 10-year planning period and identify alternative and traditional water supply development as well as conservation and reuse projects needed to meet the City's projected future demands. The Work Plan will outline alternative water supply sources required to meet projected shortfalls and will present an implementation plan that will guide the City's efforts to develop and maintain sustainable water sources for its overall service area. The work plan will identify the major capital improvements needed for alternative water supply needs and will be incorporated into the City's five-year Capital Improvements Plan (CIP). Development of this Work Plan required coordination between the City's Community Development Department and Utility Department, the South Florida Water Management District (SFWMD), and each of the water receiving local governments in the City's service area (City of Sunrise, Town of Davie, City of Weston, and Town of Southwest Ranches). As required, it is anticipated that this Work Plan will be updated every five years, or within 18 months of a revision to the LECWSP Update.

2.0 CHAPTER 2- WATER SERVICE AREA

2.1 INTRODUCTION

The City of Sunrise, which is located in Western Broward County, was incorporated in 1961. As development grew in the area, private water systems located inside and outside the City Limits were acquired and assembled to become part of the regional water service area. Over time, the water service area expanded to encompass an area of more than 67 square miles. The City's municipal boundary map is shown in **Figure 2-1**.



(Source: City of Sunrise, 2020 WSWFP)

Figure 2-1. City of Sunrise Location Map

2.2 WATER SERVICE AREA

The Utility provides water service to approximately 236,400 people, and as described below, serves jurisdictions outside of the City of Sunrise municipal boundary. The City's Utility service area is bounded by Plantation and Lauderdale utility service areas to the South and East, the Tamarac service area to the North, and the Davie, Cooper City, and Pembroke Pines service areas to the South. The Western boundary of the service area adjoins the South Florida Water Management District (SFWMD) Water Conservation Areas 2B and 3A. The extent of the existing utility service area is shown in **Figure 2-2**. The City of Sunrise municipal limits do not have any areas that are on domestic self-supply system.

2.3 SERVICE WITHIN OTHER LOCAL GOVERNMENT JURISDICTIONS

The City of Sunrise's Utility is currently the sole water service purveyor for the Cities of Weston and Sunrise. It also serves approximately 40 percent of the area encompassed by the Town of Southwest Ranches, roughly 60 percent of the area of Town of Davie, and four individual homes in unincorporated Broward County, as listed in **Appendix G**.

The City is responsible for planning, financing, constructing, operating, and maintaining the water utilities and public water supply systems that serve the areas shown within **Figure 2-2** and will continue to have total responsibility over the withdrawal, treatment, and distribution of potable water within this area. Currently, a portion of the Southwest Ranches area and Unincorporated Broward County uses private wells and septic systems. This area could potentially become part of the City's future retail service area. **Figure 2-3** shows the potential Future Service Area.

2.4 PRIVATE SUPPLIERS

Non-municipal water service providers are required to have Water Use Irrigation Permits, Major General Water Use Irrigation Permits, Individual Permits, or Major Water Use Permits issued by SFWMD. Permits are issued to allow users to withdraw a specified amount of water, either from the ground, canals, lakes or rivers. This water is typically used to irrigate golf courses, crops, nurseries, residential landscaping or for industrial uses.

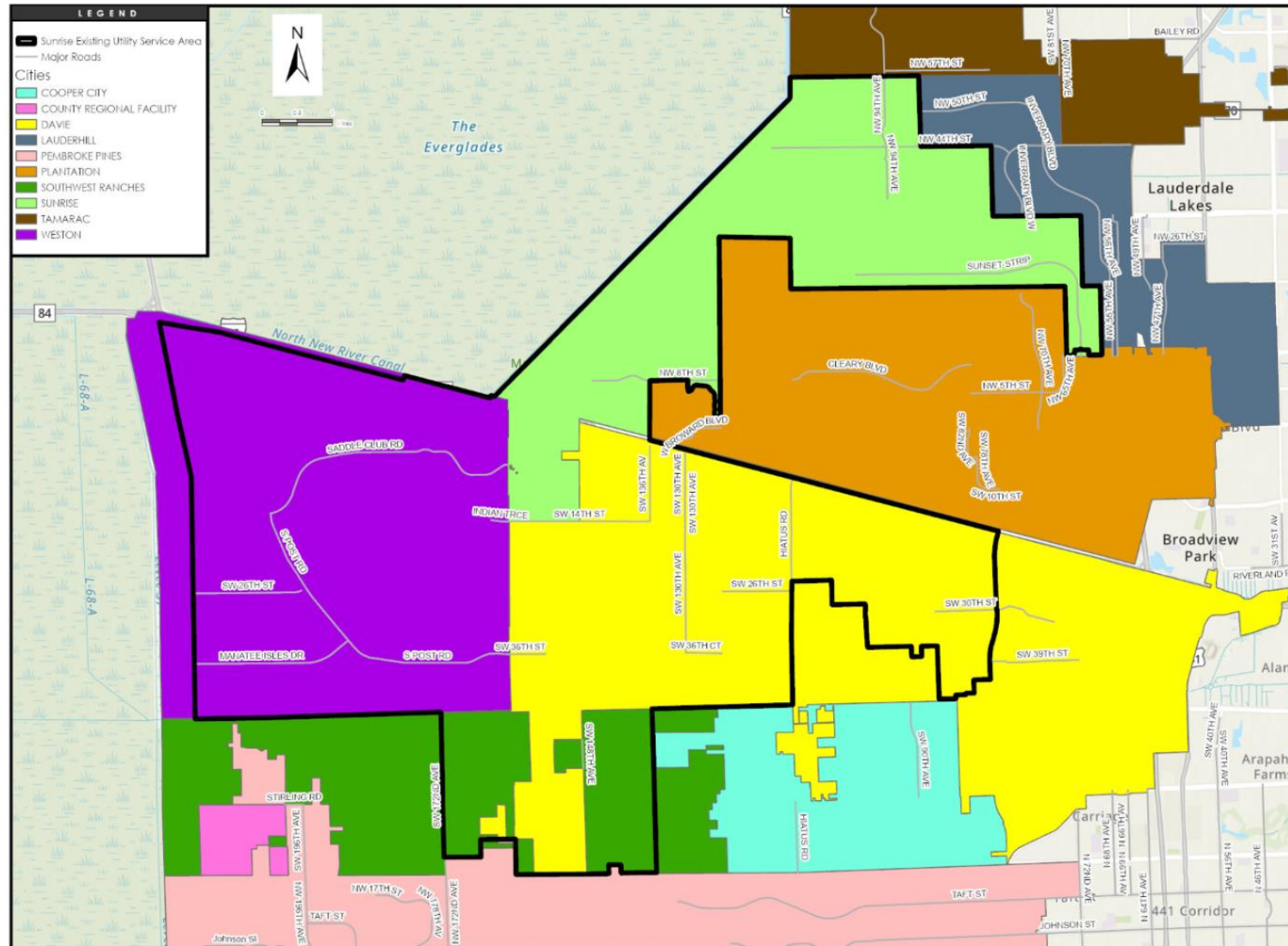
Individual users withdrawing Biscayne Aquifer water within the City are identified in **Figure 2-4**. The City of Sunrise Utility does not have any involvement in the planning, financing, construction, or operation of the facilities of SFWMD permittees or self-supplied users except for the City-owned golf course (The Bridges at Springtree Golf Course) and municipal green space. The City of Sunrise's water utility is responsible for obtaining the City's Bridges at Springtree Golf Course water use permit, which withdraws water from two onsite canals.

Appendix B includes an inventory list of potable and non-potable water service providers in addition to self-supplied individuals that are mapped in **Figure 2-4**.



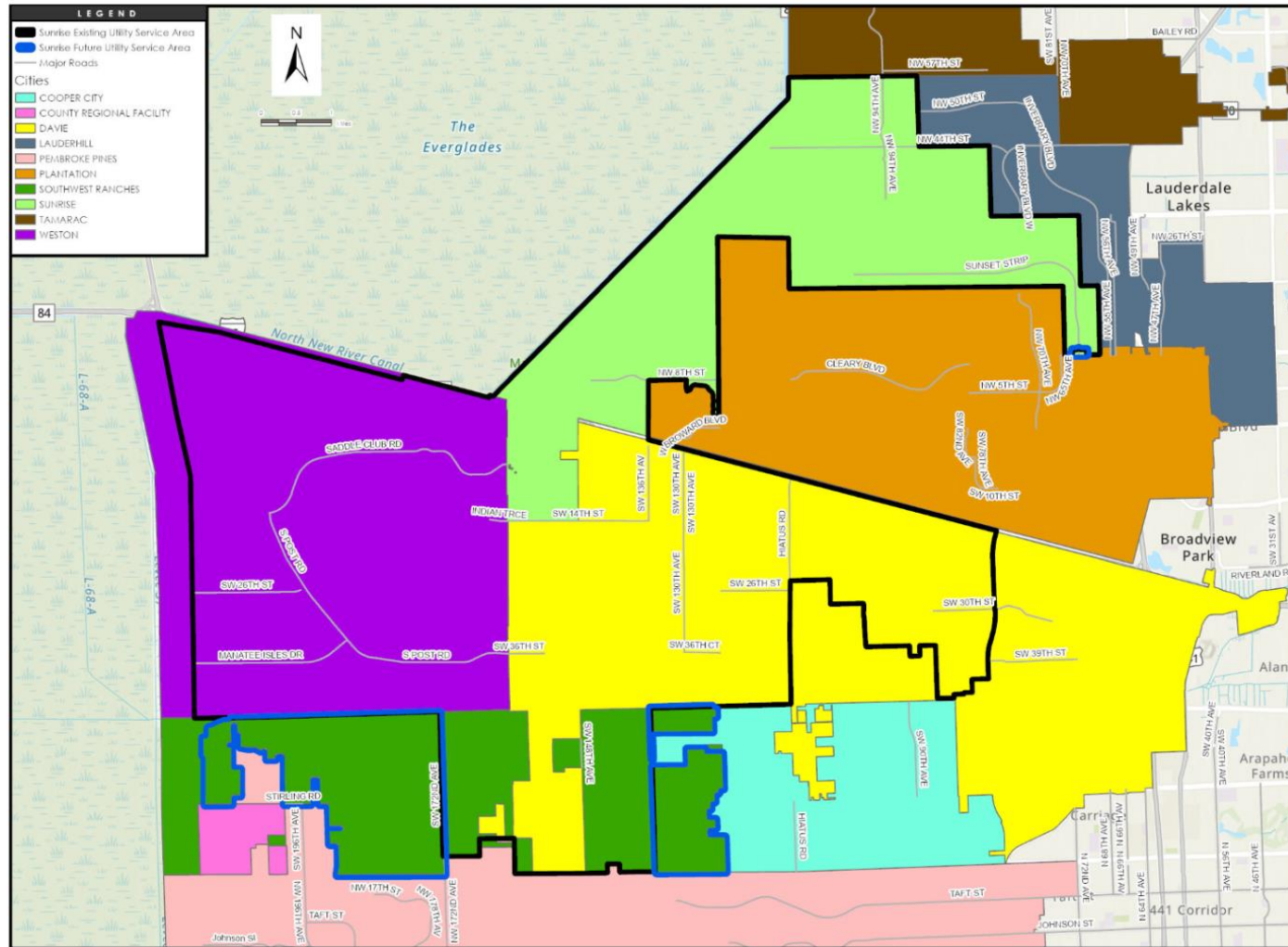
The City of Sunrise and City of Weston municipal limits have no areas on domestic self-supply system. There are five individual users in Town of Davie and three individual users in Town of Southwest Ranches that are within the existing service area and are on domestic self-supply system. Additionally, there are eleven individual users in Town of Southwest Ranches that are considered to be in the future service area, which are on domestic self-supply system.

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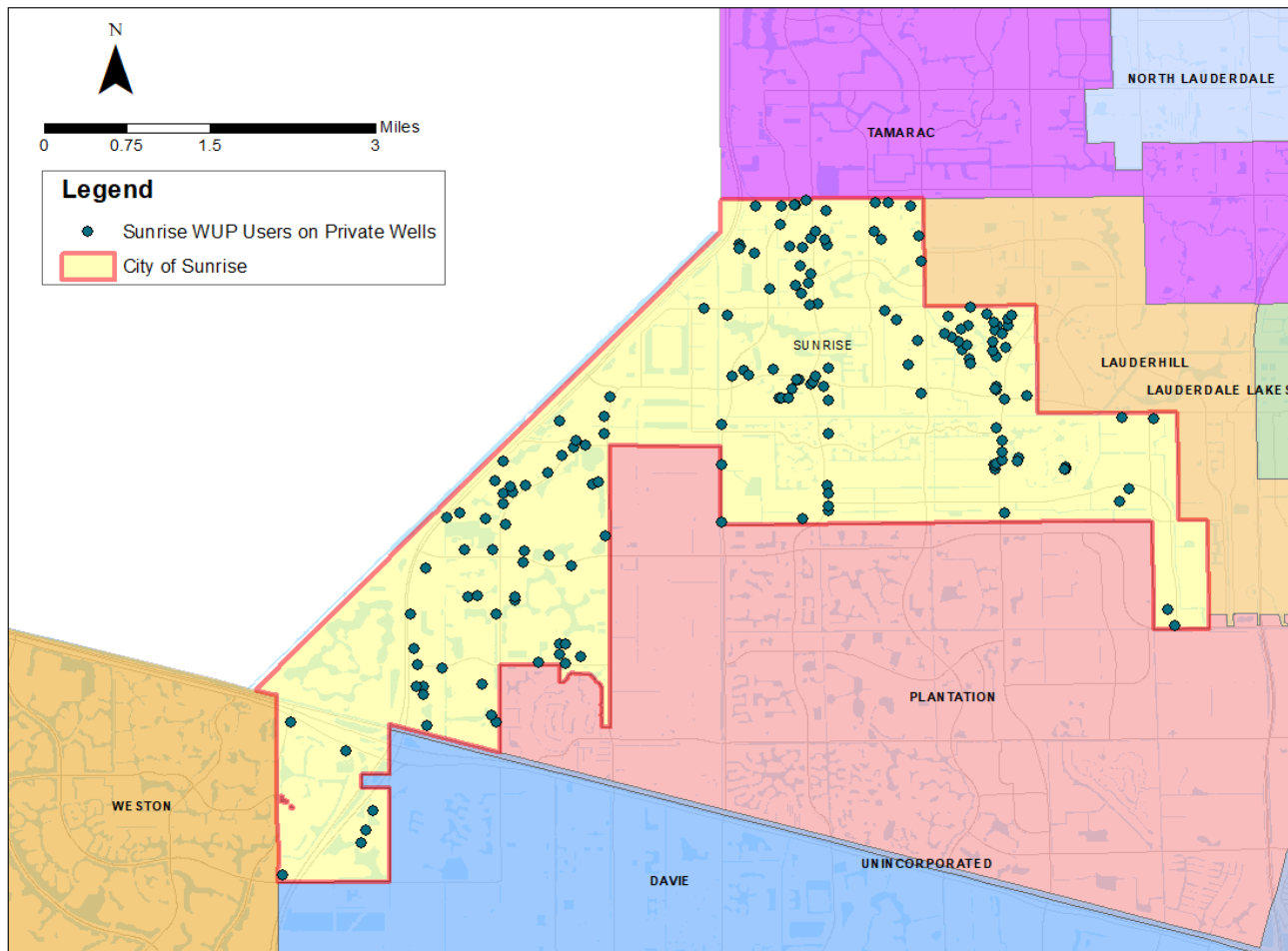
(Source: City of Sunrise, 2025)

Figure 2-2. City of Sunrise Utilities Existing Water Service Area



(Source: City of Sunrise, 2025)

Figure 2-3. City of Sunrise Utilities Future Water Service Area



(Source: City of Sunrise, 2020 WSFWP)

Figure 2-3. Potable and Non-Potable Users within City of Sunrise

3.0 CHAPTER 3 – EXISTING WATER SUPPLY, TREATMENT, STORAGE AND TRANSMISSION, AND DISTRIBUTION FACILITIES

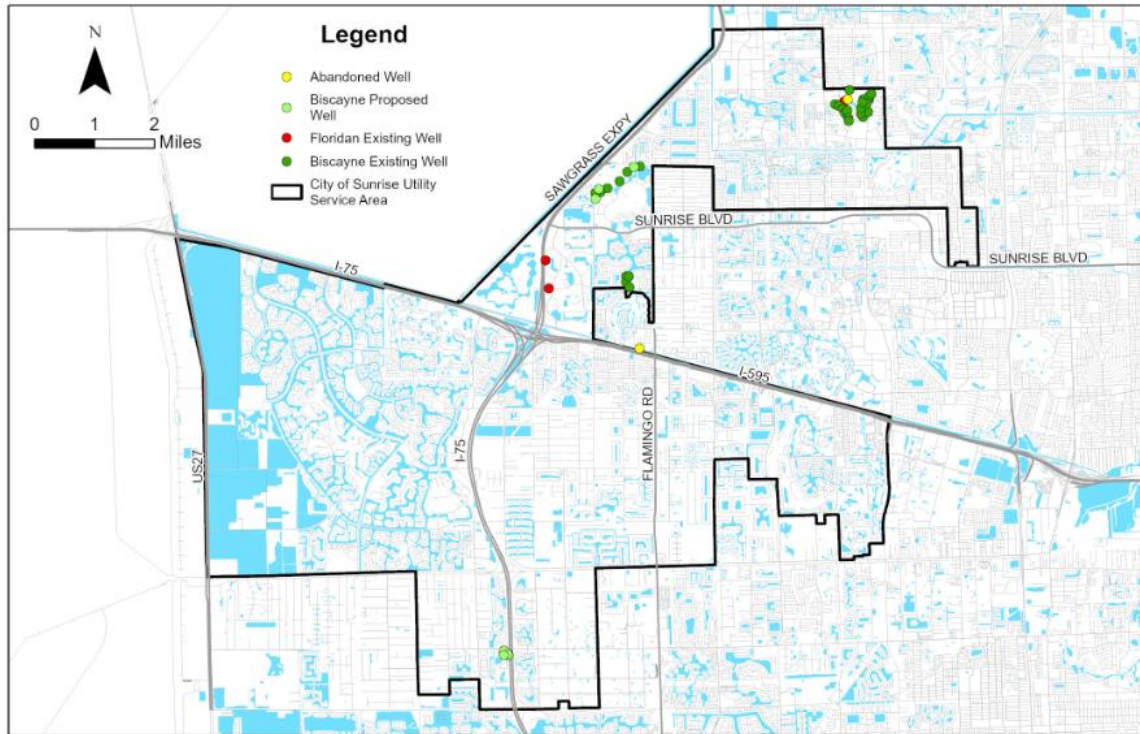
3.1 INTRODUCTION

This section provides an overview of the City's water supply system, water treatment facilities, and transmission and distribution system.

The City of Sunrise water supply system includes four active wellfields, and three water treatment plants. Since the last Work Plan Update 2020, the remote storage and re-pump facility at Indian Trace and Floridan Reverse Osmosis (RO) water treatment process with Floridan supply well (formerly known as Aquifer Storage and Recovery (ASR) well) at the Springtree Water Treatment Plant (WTP) have been deactivated. The Utility's water transmission and distribution system includes approximately 750 miles of water mains ranging from 8 to 48 inches in diameter. The City currently has emergency interconnections with the Town of Davie, the City of Plantation, the City of Pembroke Pines, and Cooper City.

3.2 WATER SUPPLY FACILITIES

The City of Sunrise Utilities water supply system withdraws from the Biscayne Aquifer. The Biscayne Aquifer facilities have a constructed capacity of 60 MGD with a permitted water use allocation of 34.02 MGD (including C-51 Reservoir allocation), and a maximum yearly withdrawal of 11,961.72 MG. The City has a current Floridan aquifer allocation of 2.00 MGD, however, existing Floridan Aquifer treatment processes (reverse osmosis) are being converted to Biscayne processes (nanofiltration). The City currently operates the following four wellfields: Springtree, Sawgrass (Arena), Sawgrass (Flamingo Park), and Southwest. The Melaleuca and Park City wellfields have been decommissioned. The ASR/Floridan well at Springtree has been decommissioned. The Biscayne and Floridan wellfield locations are shown in **Figure 3-1**. The Sawgrass and Springtree facilities and wellfields each supply about 97 percent of the entire system demand, while the remaining 3 percent is provided by the Southwest facility. **Table 3-1** presents the capacity of the Biscayne wellfields and **Table 3-2** presents the capacity of the Floridan wellfields that supply each facility. City of Sunrise well description is provided in **Appendix F**.



(Source: City of Sunrise, 2025)

Figure 3-1. Biscayne and Floridan Wellfield Locations

Table 3-1. Biscayne Wellfield Capacity

Wellfield Location	WP Served	Total Installed Capacity (MGD)	Total Installed Firm Capacity (MGD)
Springtree	Springtree	25	23
Sawgrass (Arena)	Sawgrass	18	15
Flamingo Park	Sawgrass	15	11
Southwest	Southwest	3	2
TOTAL		60	50

(Source: City of Sunrise, 2025)

Table 3-2. Floridan Wellfield Capacity

Wellfield Location	WTP Served	Total Installed Capacity (MGD)	Total Installed Firm Capacity (MGD)
Springtree*	Springtree	2	0
Sawgrass	Sawgrass	6	3
Melaleuca*	Sawgrass	3	0
TOTAL		11	3

*Melaleuca and Springtree are currently not in service. Sawgrass and Melaleuca Floridan wells do not have permitted water allocation per the current WUP.

(Source: City of Sunrise, 2025)

3.2.1 Springtree Wellfield

3.2.1.1 Biscayne Aquifer Wells

The Springtree wellfield is located at 8350 Springtree Drive on the City's Bridges at Springtree Golf Course. The wellfield consists of a total of 26 production wells with 17 wells in operation, two wells on standby, and seven wells that have been abandoned. This Biscayne Aquifer wellfield has a total installed pump capacity of 25.4 MGD.

3.2.1.2 Floridan Aquifer Wells

The Springtree wellfield consisted of one Floridan/ASR well with a raw water Floridan allocation of 2.0 MGD. This well is no longer in service and has been abandoned due to water quality issues.

3.2.2 Sawgrass Arena Wellfield

3.2.2.1 Biscayne Aquifer Wells

The Sawgrass wellfield is located adjacent to the Amerant Bank Arena at One Panther Parkway in Sunrise, West of NW 136th Avenue and East of the Sawgrass Expressway (State Road 869). This wellfield was constructed in 1998 and is comprised of six Biscayne wells with a total pump capacity of 18 MGD. This wellfield supplies raw water to the Sawgrass WTP.

3.2.2.2 Floridan Aquifer Wells

Two additional Floridan wells were constructed in 2013 in the Sawgrass Corporate Park. These wells are located West of International Parkway and East of Sawgrass Expressway (State Road 869). One well is located in the median of NW 8th Street, while the other is located adjacent to 1340 Concord Terrace, Sunrise, and South of Sunrise Boulevard. The wells are not yet equipped with pumps. The City has also installed raw water mains from the wells to the treatment plant for future use of this source.

3.2.3 Sawgrass Flamingo Park Wellfield

The Sawgrass Flamingo Park wellfield is located at 12855 NW 8th Street, Sunrise. The wellfield consists of four existing wells with a total raw water capacity of 15 MGD. These wells also supply raw water to the Sawgrass WTP.

3.2.4 Sawgrass Melaleuca Wellfield

The Melaleuca wellfield is located at 12630 SW 2nd Street, Plantation. The Melaleuca wellfield has been abandoned for 24 years. There is also one abandoned Floridan aquifer well at this site.

3.2.5 Park City Wellfield

3.2.5.1 Biscayne Aquifer Wells

The Park City wellfield was located at SW 21st Street and Pine Island Road and was abandoned in 2012. This site consisted of seven (7) Biscayne Aquifer wells. The wellfield served the Park City Water Treatment Plant until 2002. The water treatment plant site was demolished in 2012.

3.2.5.2 Floridan Aquifer Wells

Park City wellfield previously had a Floridan allocation of 4.09 MGD in the 2008 WUP. The current WUP (2020) does not have an allocation for this wellfield. Floridan Aquifer well was not constructed at this site.

3.2.6 Southwest Wellfield

The Southwest wellfield is located at 15400 Watermill Road in Davie, South of Stirling Road, West of Interstate I-75 on the Southwest Water Treatment Plant site. The wellfield consists of three Biscayne Aquifer wells with a total raw water capacity of 3 MGD.

3.2.7 Water Use Permit Conditions

The SFWMD regulates the volume of water that can be withdrawn from surface and groundwater through the use of a Water Use Permit (WUP) pursuant to Part II of Chapter 373 of the Florida Statutes. The most recent WUP issued to the City by the SFWMD was in March 2020 and revised in October 2020. The current 2020 Permit No. 06-00120-W included the Springtree, Sawgrass (Arena), Southwest, and Flamingo Park wellfields and allows a combined average Base Biscayne aquifer withdrawal of 29.09 MGD from the four wellfields and a maximum month withdrawal allocation of 981.75 Million Gallons per Month (MGM). Following the C-51 Reservoir Project being operational, the current permit allows a combined average Biscayne aquifer withdrawal of 34.09 MGD from the four wellfields and a maximum month withdrawal allocation of 1150.47 Million Gallons per Month (MGM). In addition to a system-wide maximum month allocation, the WUP also identifies a maximum day withdrawal for each wellfield as described in **Table 3-3**.

Table 3-3. WUP Biscayne and Floridan Wellfield Maximum Withdrawal

Wellfield Locations	Equivalent Annual Average Day (MGD)	Maximum Monthly Allocation (MGM)
Biscayne Wellfields		
Sawgrass Arena (only)	6.00	202.6
Sawgrass Flamingo Park (only)	11.31	381.65
Springtree*	15.70	529.78
Park City (decommissioned)	-	-
Southwest Facilities	1.08	36.44
Total**	34.09	1,150.47
Floridan Wellfields		
Sawgrass RO	-	-
Springtree RO	2.00	67.52
Park City RO	-	-
Total	2.00	67.52

* C-51 Reservoir Project Operational.

** Total withdrawal from all sources is limited to 11,961.72 MGY and 1,105.85 MG/MO.
(Source: City of Sunrise Water Use Permit No. 06-00120-W)

3.3 WATER TREATMENT FACILITIES

The City of Sunrise currently operates three water treatment plants (WTPs) with a total permitted capacity of 51.5 MGD. The Springtree, Sawgrass, and the Southwest WTPs are currently active, while the Park City WTP was put out of service in 2003 and later demolished in 2012. **Figure 3-2** shows the location of the active WTPs. **Table 3-4** includes the treatment facilities design capacity, treatment facilities permitted capacity, and system-wide average-day treated water supply in 2024 from each active facility.

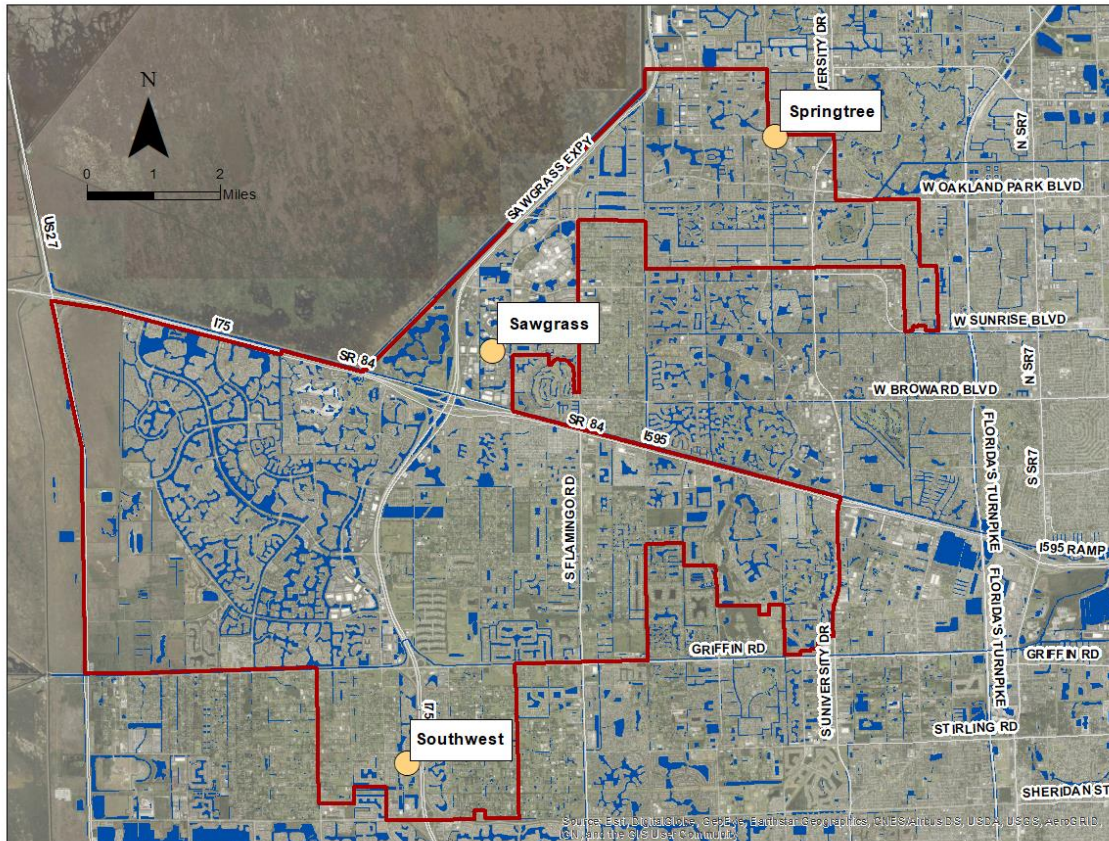
3.3.1 Springtree Water Treatment Plant

The Springtree WTP is located on a 20.6-acre site at 4350 Springtree Drive in Sunrise, located South of NW 44th Street and East of Springtree Drive. The water treatment facility includes a conventional lime-softening treatment facility and a reverse osmosis process. This facility has a total permitted treatment capacity of 25.5 MGD. Lime sludge residuals from the softening process are pumped to a lime sludge recovery process where a percentage of water is recycled back to the lime softening units, conserving additional water. The 1.5 MGD capacity reverse osmosis treatment facility is in the process of being retrofitted and expanded to nano-filtration for treating Biscayne aquifer water with an ultimate capacity of 3.40 MGD.

3.3.2 Sawgrass Water Treatment Plant

The Sawgrass WTP, located at 14150 NW 8th street in Sunrise, within the Sawgrass Corporate Park, was constructed in 2000 and expanded in 2003. The plant uses nanofiltration membranes as

the primary treatment process, with post-treatment degasification and disinfection. The plant has been re-rated to a permitted treatment capacity of 24 MGD. The concentrate produced from the membrane softening process is pumped to an industrial deep injection well, located on site.



(Source: City of Sunrise, 2020 WSWFP)

Figure 3-2. Water Treatment Plants Locations

3.3.3 Southwest Water Treatment Plant

The Southwest WTP was built in 1997 and is located at 15400 Watermill Road in Davie, near the intersection of Interstate 75 and Stirling Road. The water treatment facility was originally a conventional lime-softening treatment plant with a treatment capacity of 2 MGD. The treatment plant underwent a major rehabilitation and process improvement in 2021. The upgraded treatment plant includes lime softening, carbon dioxide addition for pH adjustment, and ion exchange treatment for organics removal with a treatment capacity of 2 MGD. Residual handling systems for this facility consist of one wash water recovery basin (Sav-All Tank) and two sludge lagoons.

Table 3-4. Water Treatment Facility Capacity

	Springtree WTP (MGD)	Sawgrass WTP (MGD)	Southwest WTP (MGD)	System Total (MGD)
Biscayne Treatment Permitted Capacity	24.0	24.0	2.0	50.0
Floridan Treatment Permitted Capacity	1.5	-	-	1.50
Treatment Capacity (Permitted) MGD	25.5	24.0	2.0	51.5
Ave Day Treated Water MGD	8.68	14.15	0.91	23.75

(Source: City of Sunrise, 2024)

3.4 WATER STORAGE FACILITIES

The three water treatment plants each have two groundwater storage tanks designed to buffer the water production process from the water distribution system. Additionally, the City has an off-site storage facility at Indian Trace. This facility has not been used since 2022. **Table 3-5** lists the storage capacity at each location, and **Figure 3-3** shows the location of the storage tanks.

Table 3-5. Storage Capacity

Facility	Capacity (MGD)
Sawgrass	10.0
Springtree	9.0
Southwest Utilities	1.5
Weston (Indian Trace)*	0.0
Melaleuca*	0.0
Bonaventure*	0.0
Total	20.5

*Out of Service

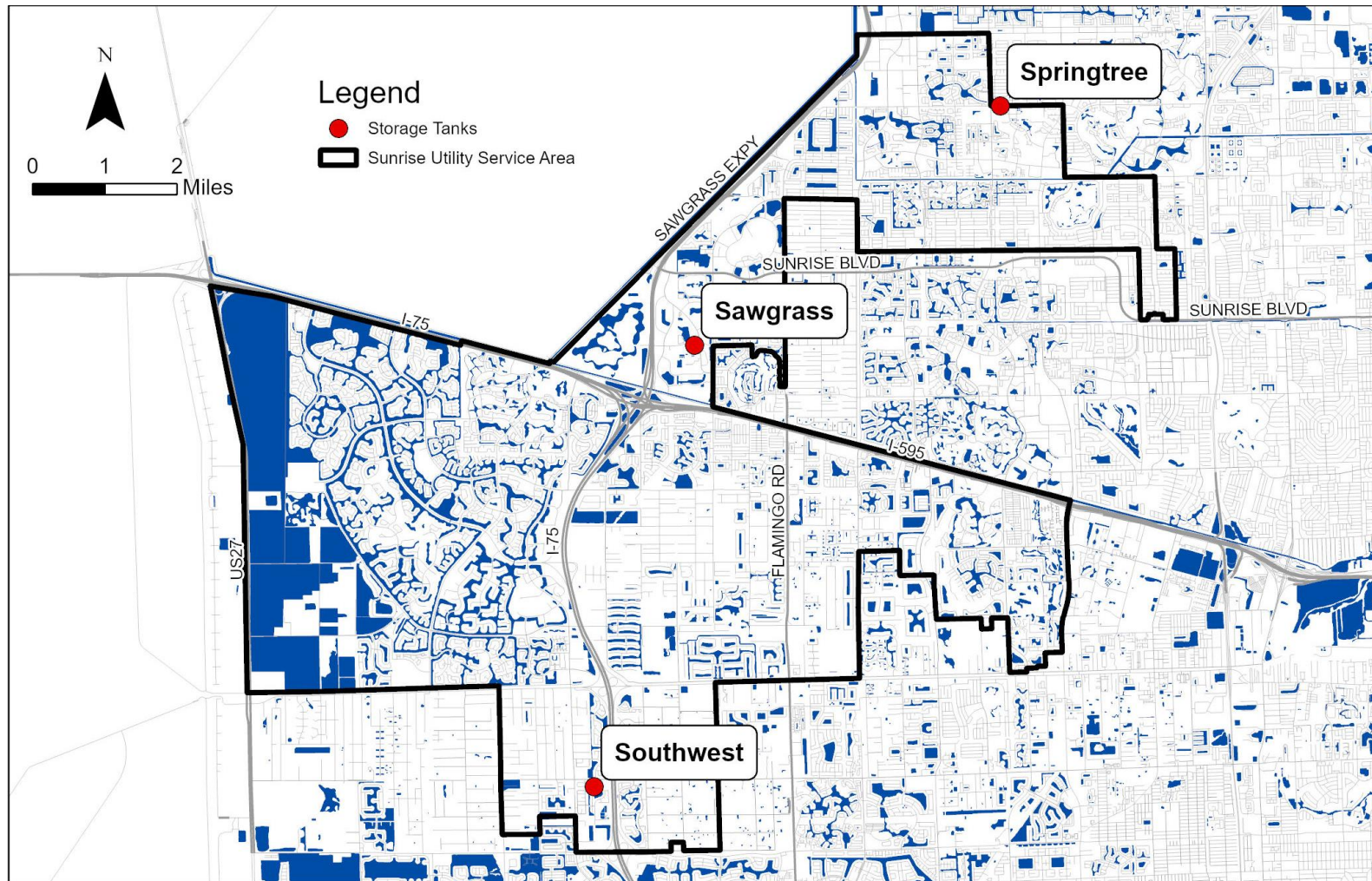
(Source: City of Sunrise, 2025)

3.5 WATER TRANSMISSION AND DISTRIBUTION SYSTEM

A transmission network of 30- and 24-inch mains runs from the Springtree high service pumps located in the northern part of the City, and South to the Sawgrass WTP facility. The transmission network then branches East and West along I-75 and I-595. No lines larger than 24 inches extend South of the Weston (Indian Trace) storage re-pump facility. The area South of Weston (Indian Trace) is served by mains 16 inches and smaller. **Figure 3-4** illustrates the location of transmission mains.

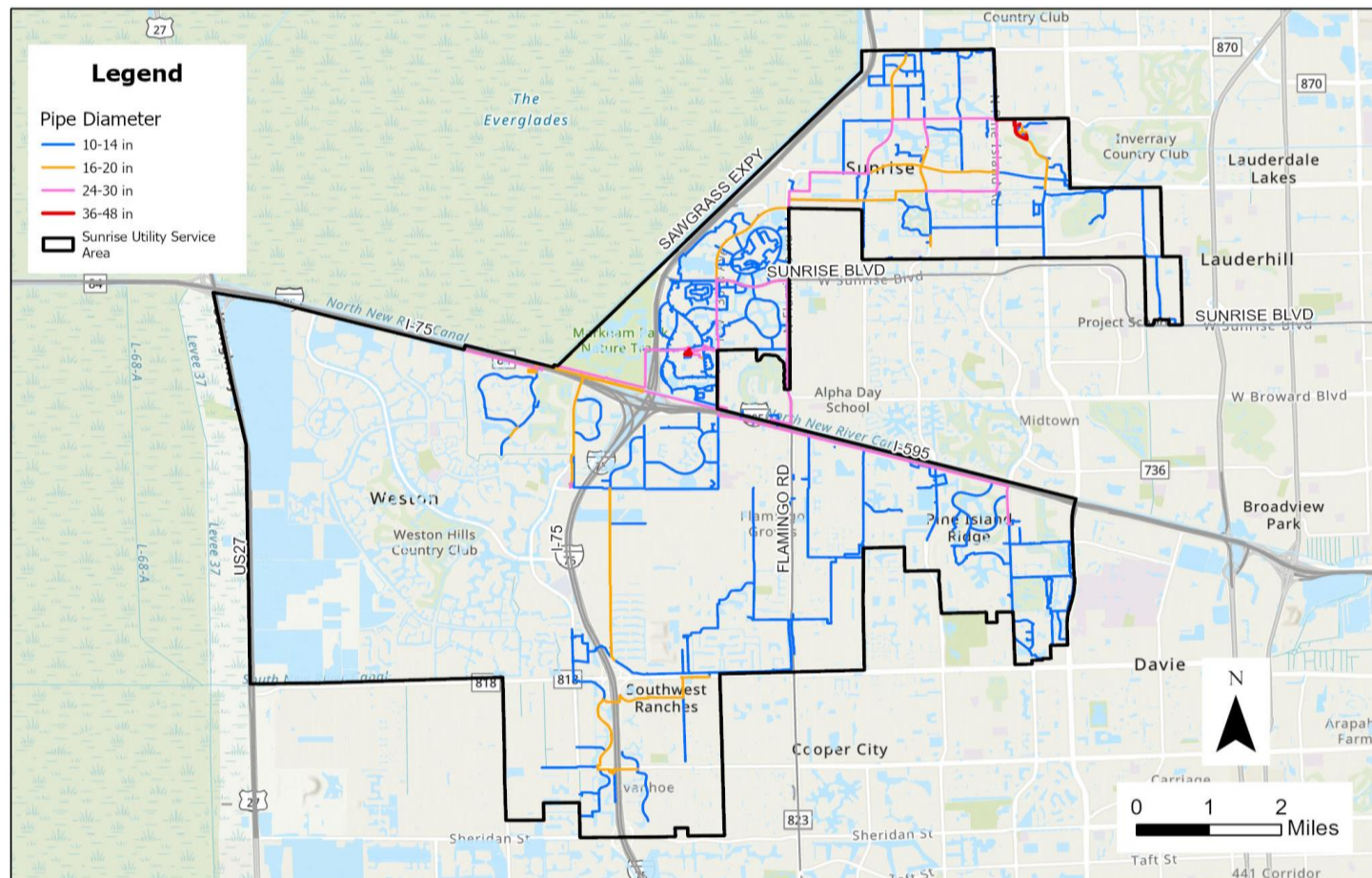
The City maintains water supply system interconnections for emergencies with the City of Plantation, Town of Davie, City of Pembroke Pines, and Cooper City. **Appendix C** includes the details of the system interconnections.

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(Source: City of Sunrise, 2025)

Figure 3-3. Storage Locations



(Source: City of Sunrise, 2025)

Figure 3-4. Transmission System

4.0 CHAPTER 4 – POPULATION DATA AND ANALYSIS

4.1 INTRODUCTION

This section evaluates historic population and future population projections within the City of Sunrise's regional utility Service Area. The development of these population projections is based upon collaborative efforts between the City of Sunrise, the City of Weston, the Town of Davie, the Town of Southwest Ranches, and the City of Plantation. The population projections have been rounded to the nearest hundred.

4.2 HISTORIC POPULATION DATA

The population within the City of Sunrise Utilities water service area has increased by 8.3% in the last decade. Within the local governments served, the City of Sunrise observed the largest population growth between 2015 and 2024. The other utilities served by the City of Sunrise, including the Town of Davie, the City of Weston, and the Town of Southwest Ranches, did not see significant population changes. **Table 4-1** presents the estimated historical population within the Utility service area.

Table 4-1. City of Sunrise Service Area Historic Population

Year	Population
2015	216,500
2016	218,600
2017	220,700
2018	222,800
2019	224,900
2020	227,000
2021	228,900
2022	230,700
2023	232,600
2024	234,500

Note: ¹ Historic population data is estimated by an interpolation using PFAM 2017 data for year 2015 and PFAM 2024 data for years 2020 and 2025 obtained from Broward County Planning and Development Management Division

4.3 EXISTING AND FUTURE POPULATION DATA

Population projections developed by Broward County were used in this report. The County predicts population growth with the Broward County Population Forecasting and Allocation Model (PFAM), which, in this application, uses the 2022 Bureau of Economics and Business Research (BEBR) data as a base and projects future population at 5-year intervals by applying the Cohort-Survival Methodology.

The Broward County Population Forecasting Model methodology projects population by assuming that future population is equal to present population plus births, minus deaths, and takes into account net migration. This assumption is applied to various segments of the population based on age, gender, race, and ethnicity. Domestic migration rates are obtained from the United States

Department of the Treasury's Internal Revenue Service (IRS) and the United States Immigration and Naturalization Service (INS) records, and both are used to estimate international migration. The model methodology has been approved by the State of Florida Department of Community Affairs.

Broward County allocates the population forecast model results into the County's Traffic Analysis Zones (TAZ). TAZ areas provide a small geographic area that allows for allocation flexibility in addition to being the accepted method for transportation and water supply planning. Unlike municipal boundaries, TAZ boundaries are usually bounded by a major roadway or natural features and are relatively consistent in size. Population projections are further allocated by municipality based on the results gathered from the PFAM and the review of roundtable panel discussions with the City and County officials.

4.4 POPULATION PROJECTIONS

This Water Supply Facility Work Plan update uses the Broward County Traffic Analysis Zone (TAZ) model results dated from 2020 as the basis for its population projections. The existing and future water service area boundaries were juxtaposed with the associated TAZ areas, and the population was calculated based on the intersecting area. In addition, linear interpolation was applied to project intermediate year populations that were not included in the TAZ projections. A review was conducted to identify, assess and incorporate any pending or anticipated zoning and land use changes, as well as significant development projects that could result in additional population and additional water supply demand.

Meetings were held with the Planning Departments of the local governments served by the City of Sunrise Water Utility. Following is the summary of intergovernmental coordination:

- The Town of Southwest Ranches indicated that they do not anticipate major land use changes impacting future population projections. City of Sunrise Future Service Area Map has been updated to reflect the changes reported by the Town of Southwest Ranches for the future service area and is shown in **Figure 2-3**. A list of future development projects for the Town of Southwest Ranches is provided in Chapter 5, Table 5-5.
- The Town of Davie does not anticipate any DRIs and land use changes impacting future population projections for the area served by the City of Sunrise Utilities.
- The City of Weston does not anticipate any DRIs and land use changes impacting future population projections for the areas served by the City of Sunrise Utilities. The City of Weston confirmed several developments to be completed within the next 3-5 years. These developments demand projections are forecasted to be realized by 2030. A list of future development projects for the City of Weston is provided in Chapter 5, Table 5-5.
- The City of Sunrise's development projects that are either underway or proposed within its service area are provided in Chapter 5, Table 5-5.
- Meeting minutes for the intergovernmental coordination carried out in developing this Work Plan are shown in **Appendix E**.

Table 4-2 presents the population projections over a 20-year time horizon for the City of Sunrise Utility service area, and by each local government served by the City of Sunrise.

Table 4-2. City of Sunrise Service Area Population Projections

YEAR	2030	2035	2040	2045	Service Area
Weston	68,400	68,000	67,500	67,200	Existing
Davie	58,100	57,800	57,900	57,600	Existing
Sunrise	110,300	112,100	112,900	115,000	Existing
SW Ranches	2,100	2,100	2,100	2,200	Existing
SW Ranches	-			6,000	Future*
Total (Rounded)	238,900	240,000	240,400	248,000	

*The potential future service area in SW Ranches is derived from Broward County PFAM 2024 and populations were applied to Sunrise Utilities Service Area starting in 2045

**Values are rounded to the nearest hundred

(Source: Computed by Stantec, 2025)

4.5 VERIFICATION OF POPULATION PROJECTIONS

Population projections computed for this work plan were shared and agreed upon with the local governments served by the City of Sunrise water Utility as part of the intergovernmental coordination carried out to develop this Water Supply Facility Work Plan. The minutes for these meetings are provided in **Appendix E**.

These population projections were also compared with the projections for the City's service area in the SFWMD's 2024 LECWSP Update, as shown in **Table 4-3**. Population estimates included in the 2024 LECWSP Update used 2021 BEBR data. The population projections presented in this workplan were based on the published 2024 PFAM, which also used 2021 BEBR data. The variation between the population projections in PFAM, shown in **Table 4-2**, and for SFWMD LECWSP 2045 related to the City of Sunrise Water Service area, shown in **Table 4-3** for the year 2045, is in the range of 2%.

The City of Sunrise continues to receive changes to the development application since the time the PFAM data has been developed and published. An effort was made to compare population per TAZ and additional equivalent ERC demands were noted and listed in **Table 5-5** which is presented in Chapter 5.

Table 4-3. 2024 LEC WSP Update Population Projections for City of Sunrise Utility Water Service Area

Year	2025	2030	2035	2040	2045
Population	236,183	240,907	245,725	248,133	253,146

Source: 2024 SFWMD LEC WSP Update



5.0 CHAPTER 5 – WATER DEMAND

5.1 INTRODUCTION

The historic and future raw and treated water demands of the City of Sunrise Utilities Water Service Area are presented in this section. The water demand projections were calculated based on the population projections presented in the previous section. Equivalent Residential Connection (ERC) was used to establish the future water demands for new development and redevelopment projects within the City of Sunrise Service Area.

5.2 HISTORIC WATER USE

The average system-wide potable water production recorded at the beginning of the year 2017 was 22.33 MGD, and this value was approximately 23.74 MGD in 2024, representing a 6 percent increase over the past 8-year period. System-wide historic raw and treated water records for the City of Sunrise are provided in **Table 5-1** below. The raw water total, average month, and maximum month data (shown in columns A, B, and C) are obtained from the master meter within the plant. The maximum to average month ratio (column D) and treated to raw water ratio (column E) are calculated using the data from plant master meter.

Table 5-1. System-Wide Historic Raw and Treated Water Records

	Raw Water					Treated Water			
	A	B	C	D	E	F	G	H	I
	Total (mgd)	Avg Month (mgd)	Max Month (mgd)	Max Month / Avg Ratio	Treated / Raw Ratio	Total (mgd)	Avg Month (mgd)	Max Month (mgd)	Max Month / Avg Month Ratio
2017	8,889	741	820	1.11	0.92	8152	679	733	1.08
2018	9,122	760	826	1.09	0.90	8196	683	743	1.09
2019	9,079	757	791	1.05	0.92	8318	693	751	1.08
2020	9,223	769	900	1.17	0.88	8149	679	761	1.12
2021	9,679	807	894	1.11	0.91	8765	730	813	1.11
2022	9,334	778	837	1.08	0.90	8416	701	734	1.05
2023	9,655	805	866	1.08	0.90	8667	722	784	1.08
2024	9,781	815	953	1.17	0.89	8667	722	850	1.18

(Source: City of Sunrise, 2025)

Based on historic seasonal treated water demands recorded between year 2017 and 2024, the maximum month demand is 1.05 to 1.17 times the average month demand. Usually, the maximum water demand occurs between the months of March and May, while the minimum month demand occurs between September and October.

Table 5-2 shows the City of Sunrise Utilities systemwide historic facility-wide peak factors for treated water to raw water, maximum day raw water to average day raw water, and maximum month raw water to average month raw water for the 2017-2024 period. The City's system-wide

treatment efficiency ranged between 88% - 92% (product water as a percentage of raw water for the entire Utility System).

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Table 5-2. Historic Peak Factors

Year	Springtree WTP			Springtree WTP (RO)			Southwest WTP			Sawgrass WTP			System Totals		
	Treated /Raw Ratio	Max/Avg Day Ratio	Max/Avg Month Peaking Factor	Treated /Raw Ratio	Max/Avg Day Ratio	Max/Avg Month Peaking Factor	Treated /Raw Ratio	Max/Avg Day Ratio	Max/Avg Month Peaking Factor	Treated /Raw Ratio	Max/Avg Day Ratio	Max/Avg Month Peaking Factor	Treated /Raw Ratio	Max/Avg Day Ratio	Max/Avg Month Peaking Factor
2017	1.00	1.20	1.04	0.73	3.66	2.79	1.32	3.66	2.79	0.85	1.37	1.10	0.92	1.41	1.11
2018	0.98	1.70	1.16	0.79	3.37	3.11	0.91	1.84	1.00	0.85	1.43	1.09	0.90	1.62	1.09
2019	1.03	1.27	1.05	0.83	7.65	4.22	²	²	²	0.84	1.34	1.08	0.92	1.37	1.05
2020	0.97	1.34	1.19	0.80	3.88	3.13	0.98	1.42	1.13	0.84	1.40	1.20	0.88	1.42	1.17
2021	0.99	1.27	1.10	¹	¹	¹	0.94	1.92	1.13	0.85	1.43	1.14	0.91	1.42	1.11
2022	1.01	1.49	1.09	¹	¹	¹	0.87	1.19	1.09	0.83	1.34	1.12	0.90	1.40	1.08
2023	1.03	1.36	1.09	¹	¹	¹	0.85	1.17	1.05	0.83	1.33	1.12	0.90	1.34	1.08
2024	0.98	1.57	1.17	¹	¹	¹	0.84	1.71	1.04	0.84	1.32	1.18	0.89	1.42	1.17

(Source: City of Sunrise, 2025)

1. City stopped using the Floridan well and subsequent RO production in late 2020.
2. The Southwest WTP was offline in 2019 due to the construction of major improvements.



5.3 PER CAPITA USAGE

Based on the total water metered to customers, the estimated historic population, and the treated water leaving the plants, the per capita water usage computed for the past five years (2020-2024) was 101 gallons per capita per day (gpcd) system-wide. This is comparable to the per capita usage of 102 gpcd rate reported in the WSP 2020 update. The treated water per capita usage rate of 101 gpcd at the plant is 2.0% above the SFWMD 2024 LECWSP Update data, which shows a treated water per capita rate of 99 gpcd for the City of Sunrise Utility Water Service Area. During the draft LECWSP review process, City had provided the updated per capita rate of 101 gpcd. The City's updated Comprehensive Plan will show the level of service at 101 gpcd of treated water at the plant. Section 5.5 Water Demand Projection Methodology below describes and shows the per capita use rate for each local government where water service is provided by the City of Sunrise.

5.4 WATER LOSS

Losses considered in the City of Sunrise Water Utility system were of two types, treatment loss and distribution loss. As seen in **Table 5-3**, the system-wide treatment loss is under 10% over the past five years. System-wide treatment losses are comprised of losses from three treatment processes: lime softening, reverse osmosis, and nano filtration. The lime softening process offers the lowest loss, whereas membrane processes have a higher water loss.

The distribution system losses were computed based on the amount of treated water leaving the plant and the amount of water metered to the customers. The customer water usage was computed from the billing database. While computing the distribution loss, flushing for bacterial clearance and chlorine residual maintenance was assumed to be 5%, unbilled authorized consumption was assumed at 3% of the volume of finished water produced. **Table 5-3** shows the system-wide transmission and distribution water loss data.

Table 5-3. System Wide Transmission and Distribution Loss

Year	Total Treated	Plant Water Use	Metered to Customers	Total Real and Apparent Water Loss*	Total Real Loss	Total Apparent Loss	Total Losses
	MGY	MGY	MGY	MGY	%	%	%
2019	8,066	1,013	7,272	793	9.21	0.63	9.84
2020	8,180	1,062	7,374	836	9.20	1.02	9.85
2021	8,765	893	7,942	822	8.87	0.51	9.38
2022	8,415	868	7,614	801	9.01	0.52	9.52
2023	8,594	1,118	7,783	811	8.78	0.65	9.43
2024	8,377	1,403	7,682	695	7.46	0.84	8.30

* Total losses were computed as total real and apparent water losses. Total real water losses associated with leakage from distribution mains, storage tanks, service connections, etc. Apparent water losses include billing errors, meter inaccuracies, and illegal water consumptions which was assumed in the range of 3 - 5% system wide except for the year 2020, which included an additional loss due to a major water main break.

(Source: City of Sunrise, 2025)



5.5 WATER DEMAND PROJECTION METHODOLOGY

The forecasting of future water demands for the Sunrise Water Utility Service Area is based on population and per capita water demand projections. The system-wide demand projections were based on 101 gpcd applied to population forecast for each time horizon up to 2045. The service area-wide demand forecasting was completed by multiplying the per capita water use of 101 gpcd by population forecast data for the entire service area for the years 2025, 2030, 2035, 2040, and 2045. Billing data for the year 2017 was used to determine the percent split by local government to compute demand by local government. Demand per capita per individual local government within the City of Sunrise utility service area was calculated using the 2017 demand splits for each local government. The calculated per capita demands for each local government within the City of Sunrise Water Service Area are shown in **Table 5-4**.

Table 5-4. Water Demand Projection for Each Municipality within the City's Service Area

Municipality	Weston	Davie	Sunrise	SW Ranches	System wide
Per Capita (gpcd)	128	90	91	75	101

(Source: Computed by Stantec, 2025)

Water demand for new developments and redevelopments reported during intergovernmental coordination meetings by the planning department from local governments served by the City of Sunrise were calculated based on Equivalent Residential Connections (ERCs) at a rate of 7,800 gal/month each. **Table 5-5** shows the full list of new development and/or redevelopment projects for each local government within the City of Sunrise Water Service area. Projects were divided into three groups representing a 5-year time horizon for the 20-year planning period. Water demands calculated for associated years are included by a 5-year time horizon in the demand projections in **Table 5-6**.

Table 5-5. Future Development and Redevelopment Projects (WSP 2024 Update)

10- WATER SUPPLY FACILITIES WORK PLAN – 2026 UPDATE

Project Name	ERC	Demand (gpd)	Project Completion Date	Municipality
Completion Time Frame: 2030-2035 - Demand to be ready by 2030				
Springtree Villas	4.00	1025.75	2030	Sunrise
Saddle Club Manor - 4 Residential Homes	4.00	1025.75	2030	Weston
Weston 55+ & older rental community	139.30	35721.86	2030	Weston
Chabad - expansion including upwards of 22 townhomes	30.00	7693.15	2030	Weston
357 Racquet Club	109.37	28046.66	2030	Weston
Baptist Health	240.63	61706.76	2030	Sunrise
Pine Island Park	77.80	19950.90	2030	Sunrise
Sunset Strip Square	29.00	7436.71	2030	Sunrise
Metropica	431.85	110742.90	2030	Sunrise
Industrial Warehouse	202.65	51967.23	2030	Sunrise
Pinnacle	158.62	40675.73	2030	Sunrise
Gateway Residential	281.88	72284.84	2030	Sunrise
Broward County Transit Station	1.75	449.75	2030	Sunrise
Sawgrass Industrial Building	1.75	449.75	2030	Sunrise
Lennar	277.50	71160.99	2030	Sunrise
Camino Real	576.82	147918.90	2030	Sunrise
Vista at Springtree (FKA Suzuki Site)	68.59	17590.36	2030	Sunrise
Baby Love & Oakland Village Square - Redevelopment	190.00	48723.29	2030	Sunrise
School of Islamic Studies (AKA Islamic Foundation)	16.75	4295.34	2030	Sunrise
Hotel (SE Corner of Sunrise Blvd & Sawgrass Expressway)	104.84	26885.26	2028	Sunrise
Total Water Demand by 2030	2,947	755,752		
Project Name	ERC	Demand (gpd)	Project Completion Date	Municipality
Completion Time Frame: 2035-2040 - Demand to be ready by 2035				
Amerant Bank Arena	2346.26	601670.14	2035	Sunrise
The Edge	84.97	21788.65	2035	Sunrise
Royal Palm Plaza - Redevelopment	330.50	84753.53	2035	Sunrise
The Family	195.26	50072.55	2035	Sunrise
Total Water Demand by 2035	2,957	758,285		
Project Name	ERC	Demand (gpd)	Project Completion Date	Municipality
Project Completion Time Frame: 2040-2045 - Demand to be ready by 2045				
Faith Center Vacant Land	148.10	37979.18	2045	Sunrise
Old Florida Plaza	70.93	18190.03	2045	Sunrise
Master's Academy	13.00	3333.70	2045	Southwest Ranches
Platted Subdivisions	33.00	8462.47	2045	Southwest Ranches
Total Water Demand by 2045	265	67,965		
Grand Total Water Demand (New Developments)	6,169	1,582,002		

Source: Intergovernmental Coordination with the City of Sunrise, Town of Davie, City of Weston, and Town of Southwest Ranches, 2025

Notes:

1) ERC Conversion Factor: 7,800 gal/month/ERC

2) Projects reported as completed by Intergovernmental Communications or accounted by PFAM projections were not included in this table.

Table 5-6 below shows demand projections for each municipality serviced by the City of Sunrise utilities for the years 2030, 2035, 2040, and 2045.



Table 5-6. Annual Average Day Demand Projections (gallons per day)

Municipality	2025	2030	2035	2040	2045
City of Weston	8,757,200	8,724,500	8,668,700	8,612,000	8,572,400
Demand Projections for New Developments (gpd)	-	72,500	72,500	72,500	72,500
City of Weston - TOTAL	8,757,200	8,797,000	8,741,200	8,684,500	8,644,900
Town of Davie	5,280,300	5,248,000	5,217,000	5,222,400	5,199,700
Demand Projections for New Developments (gpd)	-	-	-	-	-
Town of Davie - TOTAL	5,280,300	5,248,000	5,217,000	5,222,400	5,199,700
City of Sunrise	9,679,100	9,997,200	10,197,400	10,285,400	10,665,900
Demand Projections for New Developments (gpd)	0	683,300	1,441,500	1,441,500	1,497,700
City of Sunrise - TOTAL	9,679,100	10,680,500	11,638,900	11,726,900	12,163,600
Town of Southwest Ranches	160,400	155,100	159,200	158,000	607,600
Demand Projections for New Developments (gpd)	0	0	0	0	11,800
Town of SW Ranches - TOTAL	160,400	155,100	159,200	158,000	619,400
Sub-total Demand Projections for New Developments (gpd)	-	755,800	1,514,000	1,514,000	1,582,000
Sub-total Demand Projections (gpd) from PFAM	23,877,000	24,124,800	24,242,300	24,277,800	25,045,600
Total Demand Projections (gpd)	23,877,000	24,880,600	25,756,300	25,791,800	26,627,600

*Values are rounded to the nearest hundred



6.0 CHAPTER 6 - WATER SUPPLY FACILITIES WORK PLAN

Our analysis accounts for systemwide demand needs through 2045. A phased incremental approach for keeping pace with demands is usually considered. As explained in this section, demands will be met through traditional and alternative water supplies with existing and planned treatment additions, distribution, and storage facilities. In addition, as described in this section, the City will continue to implement several conservation measures, including a reclaimed water system.

The planning for future water sources, treatment, and distribution system improvements for the City of Sunrise Water Utility is also presented in this section. The population projections presented in Section 4 and the finished water demands presented in Section 5 were used as the basis for this Water Supply Facilities Work Plan. The projects listed within this Plan are all coordinated with the SFWMD.

6.1 REGULATORY UPDATE

In April 2024, the Environmental Protection Agency (EPA) issued the first-ever national, legally enforceable drinking water standard for Per- and Polyfluoroalkyl substances (PFAS). This rule sets Maximum Contaminant Levels (MCLs) for six specific PFAS compounds. The City of Sunrise has detected PFAS and PFOS in its raw water at the Water Treatment Plants and, as a result, engaged an engineering consulting firm to evaluate available treatment processes and propose an economically and technically feasible option to comply with PFAS and PFOS MCLs. On May 14, 2025, the EPA announced that the compliance deadline for four established MCLs for PFAS and PFOAs would be extended to 2031, and MCLs for two other PFAS-related compounds would be rescinded, pending rulemaking in 2026.

6.2 WATER SUPPLY – DEMAND PROJECTIONS

The City's anticipated water demand through 2030 will be met by the traditional water supply (Biscayne aquifer). In 2020, the City purchased a 5 MGD of C-51 allocation and modified its WUP to include an additional offset allocation related to C-51 Reservoir project. Due to the expected enforcement of PFAS and PFOS MCLs beginning in 2031, the City expects to use alternative water supply C-51 Reservoir offset allocation, to meet the future demands and PFAS regulatory requirement. Although the City does not anticipate water demands to exceed traditional and alternative water supply allocations through 2045, plans and designs are underway for several alternative water supply projects.

Table 6-1 illustrates the Plan by which the City plans to meet the future demands by water supply source category. This Table shows yearly demand projections as a function of population forecast and water use rate of 101 gpcd, plus additional demands estimated for projected developments. These demand projections are treated water at the plant prior to being purveyed to the customers.



Figure 6-1 shows the City of Sunrise's Water Supply Plan in response to the future demand projections. Permitted raw water allocations for Surficial Aquifer System (SAS) and Floridan Aquifer System (FAS) are shown based on the City existing WUP.

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Table 6-1. Sunrise Utilities Finished Water Demand by Source Category

A	B	C	D	E	F	G	H	I
Date	Population to be Served*	Demand Projections for New Development in Addition to PFAM Projection	Projected Treated Average Day Based on 2024 PFAM Population Projection	Biscayne Treated Water Average Equivalent	Total Available Treated Water	Treated Water Deficit Per Year to be Supplied by Alternative Water	Biscayne Raw Water Permitted Allocation	Floridan Raw Water Permitted Allocation
		(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)
			$D=(B \times 101\text{gpcd}) + C$		$F=E$	$I=D-F$		
2025	236,400		23.88	26.56	26.56	-2.68	29.09	2.00
2026	236,900		23.93	26.32	26.32	-2.39	29.09	2.00
2027	237,400		23.98	26.32	26.32	-2.34	29.09	2.00
2028	237,900		24.03	26.32	26.32	-2.29	29.09	2.00
2029	238,400		24.08	26.32	26.32	-2.24	29.09	2.00
2030	238,900	0.76	24.88	26.32	26.32	-1.44	29.09	2.00
2031	239,100	0.76	24.90	28.24	28.24	-3.34	32.31	2.00
2032	239,300	0.76	24.93	28.24	28.24	-3.32	32.31	2.00
2033	239,600	0.76	24.96	28.24	28.24	-3.29	32.31	2.00
2034	239,800	0.76	24.98	28.24	28.24	-3.27	32.31	2.00
2035	240,000	1.51	25.75	28.24	28.24	-2.49	32.31	2.00
2036	240,100	1.51	25.76	28.24	28.24	-2.48	32.31	2.00
2037	240,200	1.51	25.77	28.24	28.24	-2.47	32.31	2.00
2038	240,200	1.51	25.77	28.24	28.24	-2.47	32.31	2.00
2039	240,300	1.51	25.78	28.24	28.24	-2.46	32.31	2.00
2040	240,400	1.51	25.79	28.24	28.24	-2.45	32.31	2.00
2041	241,900	1.51	25.95	28.24	28.24	-2.30	32.31	2.00
2042	243,400	1.51	26.10	28.24	28.24	-2.15	32.31	2.00
2043	244,900	1.51	26.25	28.24	28.24	-1.99	32.31	2.00
2044	246,500	1.51	26.41	28.24	28.24	-1.83	32.31	2.00
2045	248,000	1.58	26.63	28.24	28.24	-1.61	32.31	2.00

*Rounded to the nearest hundred.

(Source: Computed by City of Sunrise, 2025)



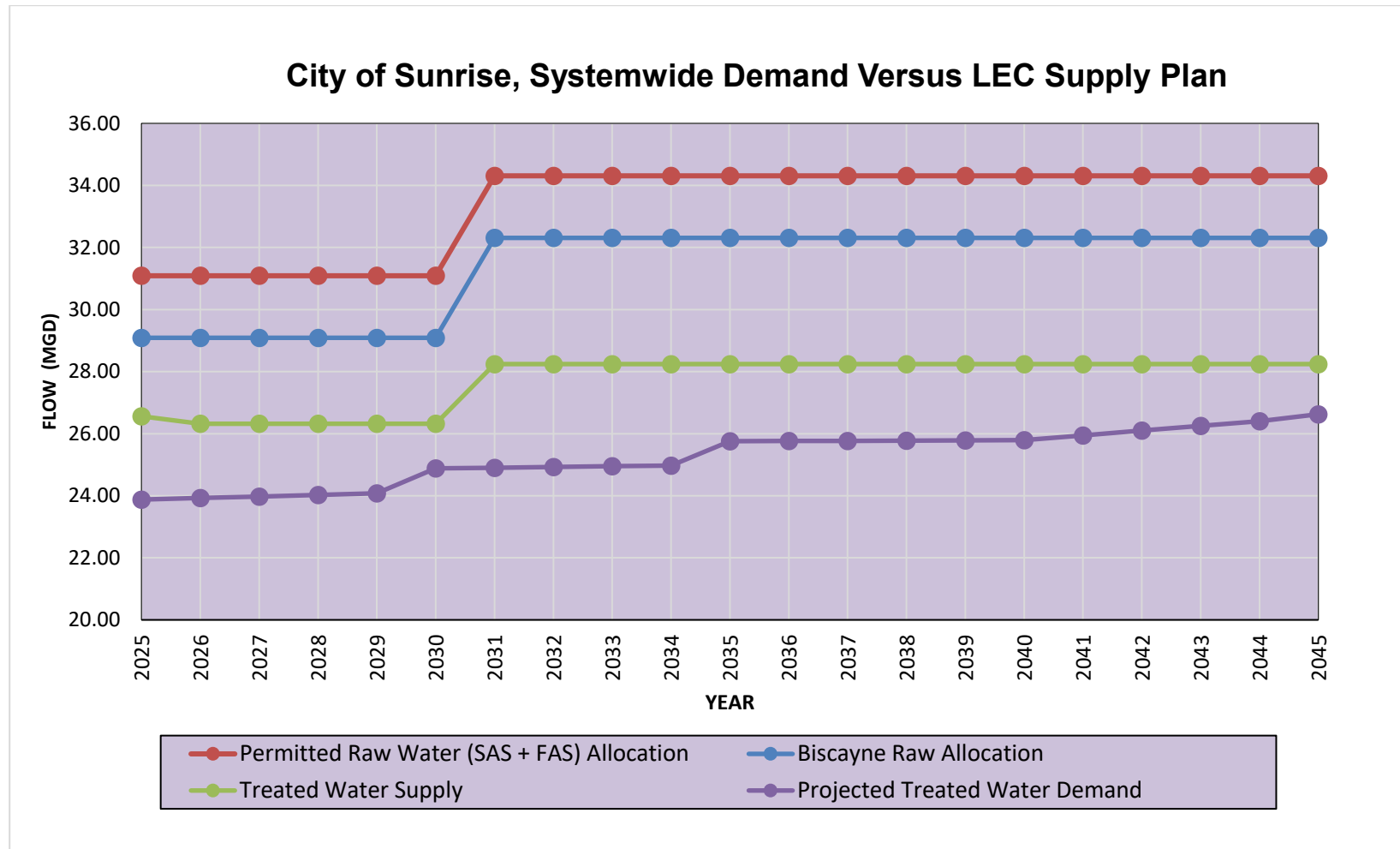


Figure 6-1. City of Sunrise Demand Versus 2024 LECWSP Update (101 gpcd)

(Source: Computed by City of Sunrise, 2025)



6.3 ALTERNATIVE WATER SUPPLY PROJECTS

The Sunrise Water Utility has planned and completed several alternative water supply (AWS) projects and is a participant in the operation of the C-51 Reservoir Project. The Sunrise Water Utility has also completed wastewater reuse projects at the Southwest and Sawgrass WWTPs. The City has planned multiple phases of reuse distribution piping projects originating from the Sawgrass WWTP site in its capital improvement plan. The City has finalized the modeling for offset allocation and has not initiated the WUP application for changes related to reclaim water use.

The City has an array of projects underway to supplement its traditional water supply with alternative water supplies, and over the last decade has constructed an additional potable water emergency interconnect with the Town of Davie that could provide a backup during emergencies such as a main break or equipment failure in the system. Other individual AWS project statuses are described below:

6.3.1 Sawgrass Recovery Increase – Conservation Project I

The City's Sawgrass nano-filtration water plant was constructed and expanded in 2003. Since that time, the plant was operating at 75 percent recovery. As part of the facility plan development, the City planned to increase the recovery of the plant closer to 82 percent to reduce the water lost through the concentrate reject stream. This process change was initiated by the City operations staff on February 18, 2010. The increase in recovery results in the addition of approximately 1 MGD of potable water from the same raw water allocation. Treatment of 17.31 MGD of raw water, as limited by the WUP, at 75 percent recovery, results in approximately 13 MGD of treated water. Increasing the recovery to 85 percent increases the available treated water to 14 MGD, an additional 1 MGD of treated water. This project was completed on March 30, 2010.

6.3.2 Sawgrass WTP – Ion Exchange Plant

In 2020, the City commissioned an Ion Exchange Plant at the Sawgrass Water Treatment Plant. This project provides a 3 MGD side stream that blends with membrane softened water, providing hardness and alkalinity to the nanofiltration permeate water to improve treated water stability. It also offers the additional benefit of reducing raw water losses at this facility (about 15% of source water is lost through membrane softening) since the ion exchange technology wastes only a small quantity of raw water. It is estimated that about 0.4 MGD of finished water will be conserved by this project.

6.3.3 C-51 Reservoir Project

The C-51 Reservoir Project is a regional water supply project privately developed and subsequently transferred to a water control authority for operation. Each participating entity has a capacity allocation agreement, and there are assigned water use allocations for participants granted by the South Florida Water Management District (SFWMD) under their respective WUP. While serving as a municipal water supply, the reservoir captures stormwater, which was previously lost to the Lake Worth Lagoon estuary. The water stored in this reservoir recharges the groundwater system, which is also used as a supply source. The City of Sunrise is an active participant in the C-51 Reservoir

Project, and in 2020, modified its WUP to include an additional 5.0 MGD of the C-51 Reservoir water allocation.

6.3.4 Sawgrass Reverse Osmosis (RO)

Floridan Wells and Raw Water Supply Line

The City installed two (2) Floridan wells within the Sawgrass International Corporate Park, which were completed in March 2013. After installation, the City confirmed reasonable water quality in 2013 to support the use of these wells. The City also completed the installation of the raw water supply line from the Floridan wells to the Sawgrass Water Treatment Plant in 2020.

While the City has partial infrastructure, upon committing to the C-51 project in 2020, the City did not need additional Floridan Aquifer water source; therefore, the SFWMD did not grant any additional allocation from the Floridan Aquifer at the Sawgrass wellfield. Due to this reason, the City has designed the wellhead, but construction has been postponed until new demand forecasts show the need for the infrastructure.

6.3.5 Springtree WTP RO to Nanofiltration (NF) Conversion– Phase I

The City commissioned a 1.5 MGD RO Plant at the Springtree WTP in April 2014 as part of its alternative water supply program. However, due to unfavorable water quality in the source well (treated water ASR well converted to Floridan supply well), the RO skid has been out of service since 2020. Since the City is a participant in the C-51 Reservoir Project, additional allocation is available in the City's WUP at the Springtree Wellfield. Considering the similarity of the treatment infrastructure, the existing RO skids and infrastructure are planned to be used for NF treatment to augment production of 1.75 MGD of treated water. This RO to NF Conversion Phase I project is under construction, and the startup of this plant is scheduled for late 2026.

6.3.6 Springtree WTP Nanofiltration – Phase II

The Springtree WTP RO plant was designed and constructed to accommodate a future Phase II RO and had building footprint, chemical, electrical, and piping infrastructure. The City plans to repurpose the available Phase II infrastructure to install a Phase II nanofiltration at the Springtree WTP. This project is under design, with a design goal of 1.75 mgd additional production capability from Phase II. The construction for Phase II is expected to start in Fall 2026. Commissioning of this skid is scheduled for late 2027-early 2028. Construction of Phase II is expected to provide the City with a total nanofiltration capacity of 3.5 MGD of treated water at the Springtree WTP.

6.3.7 Springtree WTP Upgrades to Address PFAS

The City of Sunrise has detected PFAS and PFOS in its raw water at the Springtree Water Treatment Plant. The City has engaged an engineering consulting firm to perform a conceptual assessment of PFAS occurrences in its raw and finished water supplies, assess treatment alternatives to reduce observed PFAS levels, and provide improvement recommendations. Various alternatives were evaluated, where the City has determined to design and construct an 8 MGD of treated water Phase III NF facility at Springtree WTP. City plans to initiate design in early 2026 with anticipated construction completion by 2031.

6.3.8 Southwest WRF – Phase I

The City completed rehabilitation improvements, increased the permitted capacity from 0.45 MGD to 0.99 MGD, and added a 0.99 MGD tertiary treatment process for irrigational quality (IQ) reuse in June 2016. This project increased treatment capacity by 0.54 MGD in addition to adding tertiary treatment. The current annual average daily flow (AADF) of the plant capacity is limited by the capacity of the percolation ponds at approximately 0.37 mgd. Due to groundwater conditions, hydrogeologic limitations of the surficial aquifer, and the accumulation of solids due to decades of pond usage, the rate of disposal capacity of the ponds is much less than the original permitted capacity.

The City plans to install a deep injection well and associated pump station at this facility. This deep well will help increase the plant capacity from 0.37 mgd to 0.99 mgd. These projects are currently under permitting and are expected to be commissioned by 2030. The percolation ponds will be kept as a backup to the deep injection well.

6.3.9 Sawgrass Water Reclamation Facility (WRF) - Phase I

The existing Sawgrass Wastewater Treatment plant is permitted for a capacity of 20 MGD on an annual average day basis. In 2019, the City commissioned a 2 MGD high-level disinfection tertiary facility to produce irrigation quality (IQ) reuse water with a peak capacity of 4 MGD. This project includes tertiary treatment, storage, and high-service pumping facilities. A distribution main of IQ was completed in 2020.

The City adopted reclaimed water service rates for different use type and for different meter size. The City also updated its ordinances to include reclaim water use for irrigation in commercial area in Article V., Section 15. The rates and ordinance update occurred in 2023.

6.3.10 Advanced Metering Infrastructure

The City of Sunrise is undertaking an initiative to modernize its water distribution system through the implementation of Advanced Metering Infrastructure (AMI). This integrated system combines smart meters, secure communication networks, and data management systems to enable two-way communication between the utility and its customers. The goal is to enhance operational efficiency, improve billing accuracy, and empower customers with real-time insights into their water usage.

Currently, the City relies on mechanical meters, which are limited in accuracy and contribute to water loss and inefficient operations. The AMI upgrade will replace these with advanced digital meters capable of automated, real-time, and remote readings. This will significantly reduce non-revenue water and support proactive water conservation efforts.

The AMI project is part of the City's Alternative Water Supply Solution, aimed at ensuring long-term sustainability of water resources. By enabling active demand management and reducing unnecessary withdrawals, the project supports environmental conservation, protects aquifer levels, and ensures water availability for future growth. It aligns with regional goals for efficient water use and environmental stewardship.

6.4 ALTERNATIVE WATER SUPPLY DEVELOPMENT SCHEDULE

The City of Sunrise Water Utility has planned several alternative water supply projects within its 5-year Capital Improvement Plan and 10-year Water Supply Plan. Based on data presented in **Figure 6-1**, the City has sufficient capacity in the system to meet the average day demands for a planning horizon of twenty years. However, due to the upcoming enforcement of PFAS/PFOS MCLs by 2031, the City will implement new infrastructure projects to meet the future PFAS/PFOS requirements.

6.5 CONSERVATION PROGRAMS

Recognizing that water conservation preserves both natural resources and capital resources, the City of Sunrise is committed to continuing and expanding on its successful track record of conservation. The following conservation programs are underway:

6.5.1 Water Conservation Public Education Program

The City's water conservation public education program is highly engaged in the community and:

- Promotes conservation under its Good and Green initiative. The City of Sunrise shares water conservation tips for customers on the City's website and in the *Good and Green* email newsletter, which goes out to nearly 2,000 community members.
- Water conservation education flyers are stocked at information kiosks, posters are hung at each Utility Payment Center, and posts are made via our social media platforms. Provides a means by which customers can conduct a home water audit from the City's website. The website has a typeable Water Audit Form PDF and computes the usage rate for the customer. This assists with helping to target one's conservation efforts;
- Distributes conservation information in water billings;
- Produces conservation education articles for the City's quarterly magazine;
- Promotes conservation through school outreach programs and career fair events;
- Participates in the FSAWWA's Drop Savers Water Conservation Poster Contest by engaging all schools that will participate throughout the entire water service area;
- Promotes water conservation at community events including: Broward County Water Matters Day, City of Sunrise Earth Day, Schools Career Days, Sunrise Cultural Festival, Sunrise Arts & Crafts Festival, and the Sunrise Back to School Roundup. Toilet leak detection tablets and other promotional items are given out at these events along with print material to promote water conservation.
- The City hosts an annual "Gardening for Wildlife" Workshop to educate residents on Florida-friendly landscaping.

6.5.2 An Outdoor Water Use Conservation Program

The City of Sunrise has an outdoor water use conservation program that includes:

- Limited Irrigation Hours – The City of Sunrise Code of Ordinances, Article III, Section 15-85 year-round restrictions on landscape irrigation supports the all-year, 2-day-a-week landscape irrigation restrictions imposed by the SFWMD and the Broward County Environmental Protection and Growth Management Department (EPGMD), as defined in Subsection 373.069(2)(e) of the Florida Statutes (F.S.). Landscape irrigation from 9 a.m. to 4 p.m. has been eliminated except for low-volume systems and low-volume self-canceling nozzle hand watering (Broward County, Florida, Code of Ordinances, Part II, Chapter 36, Section 55).
- Use of Reclaimed Water for Irrigation – The City of Sunrise Code of Ordinances, Chapter 16, Article VIII, Section 16-163(b)(5) & (6), requires the use of reclaimed water for the irrigation of lawn and plant material when determined to be available. If reclaimed water is not currently available, use of non-potable water for irrigation is required when determined to be available. Connection to the City's reclaimed water system shall occur when notice of availability is received from the City.
- The Broward County NatureScape Irrigation Service Program – The City of Sunrise participates in the program whereby customers are encouraged to embrace Florida-friendly landscaping practices that conserve water, reduce runoff of fertilizers, and minimize the need for pesticides. One goal of the program is to reduce water consumption through efficient irrigation and environmentally friendly landscaping while targeting large properties such as parks, schools, and residential complexes. This program involves significant funding and marketing efforts to promote water conservation by City customers and should result in reduced water demands and costs in return. In 2024, Sunrise maintained partnership for the Residential Irrigation Rebate Program, created to expand outdoor water conservation and encourage resident involvement. In the last year, the program received 49 applications, visited 13 sites, and awarded 10 rebates to Sunrise customers with an estimated savings of 348,551 gallons. Rebates included funding for more efficient irrigation components that the applicant installed.

The City of Sunrise uses Florida-friendly landscape principles for public works projects such as median strips, parks, and utility common areas. The City of Sunrise Code of Ordinances, Chapter 16, Article VIII: Functional Landscaping supports the use of Florida-friendly landscaping principles by encouraging the circuiting of irrigation systems for low and high-water use areas and allowing relaxation of irrigation overlap requirements for use of Florida-friendly landscaping or native plant material.

- Residential Landscape Beautification Program – The City of Sunrise offers a residential landscape beautification program to increase tree canopy (program launched in 2020). Sunrise has been a Tree City, USA since 1988 and continues to meet annual requirements, and celebrates Arbor Day in conjunction with our Sunrise Earth Day Festival.
- "Be a Butterfly Hero" campaign – The City of Sunrise promotes Florida-Friendly Landscaping through this campaign. The City hosts a "Gardening For Wildlife" Workshop



to educate residents, plant and tree giveaways, and installs demonstration gardens at City facilities and local public schools. In 2024, a total of 1,173 plants and trees were given to the community at City events and workshops.

- Rain Sensor Overrides – The City of Sunrise Code of Ordinances, Chapter 16, Article VIII, Section 16-163(b): Irrigation System requires irrigation controllers to be switched to manual operation during periods of increased rainfall and automatic lawn sprinklers to include a rain sensor device to override the irrigation cycle of the sprinkler system once adequate rainfall has occurred. This ordinance also requires that sprinkler heads irrigating high-water demand landscaped areas be on a separate zone from plantings requiring less water, and non-potable water is required when determined available for irrigation purposes.
- Automatic Flushing Devices – The City of Sunrise has installed automatic water flushing devices at 24 hydrants throughout the City's water distribution system to improve water quality while saving approximately 10 million gallons of water per year.
- Emergency Interconnects – The City of Sunrise has emergency interconnections with the City of Plantation, Town of Davie, City of Pembroke Pines, and Cooper City.

6.5.3 Water Conservation-Based Rate Structure

The City of Sunrise has been proactive with its rate structures and has incentivized residents to pursue conservation.

- The City of Sunrise uses an increasing block rate structure for residential customers to encourage potable water conservation. In addition to the monthly base charge, residential water rates have five tiers, with the lowest tier at \$3.45 per 1,000 gallons used up to 4,000 gallons and the highest tier at \$9.08 per 1,000 gallons used over 16,000 gallons.
- The five-tiered rate structure was adopted in 2023.

6.5.4 Water Loss Reduction Program

The City of Sunrise takes pride in its water loss reduction program. The SFWMD requires that utilities monitor unaccounted-for water (UFW), also known as non-revenue water (NRW) losses, in their distribution systems. The goal is to be less than 10 percent. Losses above this level prompt a mandatory leak detection program.

The City, from 2010 to 2018, applied considerable efforts toward renewing and replacing several of its wells and well head equipment (including meters) at its Springtree Water Treatment Plant and wellfield, and is continuing to apply these same efforts at the Southwest Water Treatment Plant to update and improve accuracy of measurement of well water pumped to these facilities. Additionally, in-plant meters have been replaced at the Sawgrass Water Treatment Plant.

Since 2013, the City has been evaluating several different advanced metering infrastructure (AMI) platforms and is currently has a contract to implement an AMI meter replacement program for gas and water, which is expected to improve the City's accounting of water, identify leaks sooner and allow customers the capability to monitor and further conserve water use on their own. Completion of this meter replacement program is scheduled for 2026.



In 2020, the City of Sunrise purchased leak detection equipment (sounding devices and correlators) to better identify and resolve existing leaks within the City's water distribution system. The City has staff members trained in the identification of leaks using this equipment. This equipment is being used in the event of an active leak. The City also has an active contract since 2020 for leak detection, where approximately 50 miles of infrastructure is inspected per year. Leaks in the range of 2 to 4 million gallons are identified and fixed to address unaccounted water each year.

These efforts are being taken in addition to implementing one to two community water main or service line replacement projects per year in the City's 5-year Capital Improvement Program, renewing the communities with the oldest or most deteriorated mains where operations staff have the most repeat visits for leak repairs or main and service failures. Through these comprehensive leak reduction efforts, the City has been able to reliably reduce its unaccounted-for water under 10% and build additional expertise and achievements through increased efficiency of operations.

6.5.5 An Indoor Water Conservation Program

The City of Sunrise has a vibrant indoor water conservation program that includes:

- Broward Water Partnership's Water Conservation and Incentives Program, Conservation Pays – The City of Sunrise is one of 17 cities and water utilities comprising the Broward Water Partnership. The City's participation commenced in October 2011 and continues today. This program involves significant funding and marketing efforts to promote water conservation by customers, resulting in reduced water demands and costs in return. This popular program was recently expanded to include multifamily housing units, not-for-profit agencies, and commercial buildings, as well as single-family homes. Qualifying Sunrise utility customers are encouraged to take advantage of the following benefits:
 - Toilet rebates: Eligible utility customers may replace old toilets that use more than 1.6 gallons of water per flush (gpf) with a WaterSense® certified, high-efficiency toilet (HET) that uses 1.28 gpf or less. WaterSense® dual-flush toilets must also use 1.28 gpf or less for both flush options. Up to two rebates may be provided for up to \$100 each, or the cost of the HET, whichever is less. To date, over 4,500 toilet rebates have been provided, and the City routinely authorizes HET installations that may exceed the budgeted annual funding by transferring from other budgeted funds to cover these expenses, because this conservation is in such high demand by our customers and so important to the Utility and the City leadership.
 - Low-flow faucet aerators, shower heads, and restaurant pre-rinse spray valves: This incentive program entails free yearly distribution of low-flow faucets, low-flow aerators, and low-flow showerheads to residential customers, and low-flow pre-rinse spray valves to commercial customers. This initiative will save water by replacing inefficient plumbing fixtures with high-efficiency fixtures.
- Ultra-Low Volume Plumbing - The City of Sunrise has adopted Florida Building Code: Plumbing Section, Chapter 4, which requires the adoption of ultra-low volume plumbing fixtures in all new construction. Plumbing fixtures shall be 80 pounds per square inch (psi) pressure; toilets, 1.6 gpf; shower heads, 2.5 gallons per minute (gpm); and faucets, 2.2 gpm at 60 psi.



- Water Conservation Tips - these are shared with the public on the City's website and via other methods presented in 1. Water Conservation Public Education Program. These water conservation tips include:
 - Looking for labels on appliances or equipment with the WaterSense™ label.
 - Fixing a leak.
 - Shortening showers.
 - Going low-flow.
 - Turning off the tap while brushing teeth.
 - Testing toilet tank for any leaks.
 - Washing only with a full load.
 - Throwing tissues in the trash rather than the toilet.
 - Picking plants that require low water or are drought tolerant.
 - Using water-saving drip irrigation for landscaping.
 - Watering lawn in the early morning.

The City of Sunrise has been able to reduce the water usage rate of 127 gallons per capita per day in 2008 to 101 gallons per capita per day. This implies a drop in water use rate of 20.5% over the last 17 years; the majority of this achievement is attributable to the implementation of conservation initiatives. While conservation is a major factor in the reduction of water usage rate, there are various other factors such as conservation rate structure, increase in water rates, land use changes, and so forth.

Table 6.2 below provides an analysis of the existing water conservation efforts and the applicable policies and programs of the SFWMD, Broward County and 2018 LECWSP Update.

Table 6-2. Conservation Programs Level of Participation and Outcomes

Specific District and County Policies or Goals	City of Sunrise Participation Analysis	City of Sunrise Participation Outcome	Recent Updates or Improvements Needed
Education, Outreach, and Marketing – Required by Conservation Goals of the SFWMD, Broward County & 2024 LECWSP Update	The reach of the City of Sunrise's conservation education and outreach programs is vast. The City reaches customers through the City's website, the utility bill inserts, the <i>Good and Green</i> email newsletter, which goes out to nearly 2,000 community members, social media posts, and through in-person engagement at community events.	It is not feasible to quantify water savings achieved from water conservation education and outreach programs. However, some noteworthy signs of program effectiveness include: As the water conservation knowledge of customers improves, they are much more likely to participate in conservation rebates and other programs offered by the utility. The City of Sunrise is the leading City in Broward County with the largest number of rebates claimed in the Conservation Pays program. With effective education and outreach, customers are more likely to make better decisions on their own water usage. In the past 17 years, the City has experienced a reduction in per capita consumption from 127 gpcd to 101 gpcd (a 20.5% reduction). The school's outreach and education further promote greater household participation in a water utility's conservation strategy.	The City is satisfied with the current level of conservation outreach and education programs, and they are in line with the local and regional goals; however, the City has recently invested in expanding the City's sustainability efforts and continued or additional outreach and education will be conducted. The Sustainability Action Plan, adopted in 2019, called for supporting increased awareness of sustainable concepts through community outreach and identification of opportunities for improvement.
Cost Share Funding Programs – Required by Conservation Goals of the SFWMD, Broward County & 2024 LECWSP Update	The City actively participates, promotes, and funds Cost Share programs such as: Conservation Pays for toilet rebates and other conservation tools, NatureScape Irrigation Service Program for	The City of Sunrise is the leading City in Broward County with the largest number of rebates claimed in the Conservation Pays program. Broward County estimates that City of Sunrise utility	The City is satisfied with the current level of cost-share programs, and they are in line with the local and regional goals and programs. A recent expansion of these efforts came from the Sustainability Action

Specific District and County Policies or Goals	City of Sunrise Participation Analysis	City of Sunrise Participation Outcome	Recent Updates or Improvements Needed
	free irrigation system evaluation and upgrade rebates, the “Residential Landscape Beautification Program” to provide free trees, and the “Be a Butterfly Hero” which provides free plants and garden planting materials. In past Broward County Water Matters Day events, the City has given out 55-gallon Rain Barrel collectors. Overall, the City spends approximately \$115,000 per year on these Cost Share Funding programs.	customers have saved over 523 million gallons of water from fiscal year 2012 through 2019. The NatureScape irrigation evaluations result in an average of 20% irrigation water savings per location. As with water conservation education and outreach efforts, some of the cost-share funding programs resulting in water savings are difficult to quantify, so a full count of water savings is not available.	Plan adopted in 2019, which called for a 10% reduction in potable water consumption by 2022 in City-owned facilities such as governmental operations facilities and City parks. The City has been actively retrofitting water fixtures to achieve this goal.
Mobile Irrigation Labs – Required by Conservation Goals of the SFWMD, Broward County & 2024 LECWSP Update	The City participates in the local Irrigation Lab from Broward County called NatureScape Irrigation Service (NIS) Program. It offers free irrigation system evaluations and upgrade rebates.	The NatureScape irrigation evaluations result in an average of 20% irrigation water savings per location; however, cumulative water savings for this program are not feasible to quantify.	The City currently participates in the Mobile Irrigation Labs program promoted by the District and County, and the City’s participation satisfies the local and regional goals for this program. . In 2024, Sunrise maintained partnership for the Residential Irrigation Rebate Program, created to expand outdoor water conservation and encourage resident involvement. In the last year, the program received 49 applications, visited 13 sites, and awarded 10 rebates to Sunrise customers with an estimated savings of 348,551 gallons. Rebates included funding for more efficient irrigation components that the applicant installed.

Specific District and County Policies or Goals	City of Sunrise Participation Analysis	City of Sunrise Participation Outcome	Recent Updates or Improvements Needed
Water Use Permit (WUP) Requirements	The City of Sunrise has implemented all necessary programs, protocols, provisions, and reporting required to meet all WUP conditions related to water conservation and water accountability. These include: Average Day Flows compliance, adoption of rules 40E-21 and 40E-24 into The City of Sunrise Code of Ordinances, Article III, Section 15-84 & 15-85, calibration of raw water meters, reporting of monthly withdrawals, reporting of water loss and continued leak detection program, implementation of water use conservation plan, development of alternative water supply and wastewater reuse.	The City of Sunrise complies with all WUP conditions for water conservation and water accountability. The City of Sunrise has developed a Standard Water Conservation Plan that complies with the requirements of the District. The requirements per the District's Applicant's Handbook include: 1) A water conservation public education program 2) An outdoor water use conservation program 3) The selection of a rate structure designed to promote the efficient use of water by providing economic incentives 4) A water loss reduction program if water losses exceed 10% 5) An indoor water conservation program	No improvements or updates are required since all WUP conditions are met and continue to be met through established programs, protocols, provisions, and reports. Updates will be made in the future as required by updates to the WUP conditions or State, regional, or local policies and goals change

6.6 REUSE PROGRAMS

City completed a reuse feasibility study in 2009, which determined that approximately 2.0 MGD of reuse was feasible in the vicinity of the Sawgrass and Springtree WWTP. In 2011 and 2012, the City performed another feasibility assessment in terms of offsetting non-potable groundwater withdrawals to increase the availability of the Biscayne Aquifer for potable water supply purposes. The City completed 0.99 MGD of reuse facility at Southwest WRF in 2010. The Construction of the first phase of the 4 MGD Reuse facility at the Sawgrass WWTP was completed in 2019. The reuse program targets large users with private irrigation wells or pumps near the City's Biscayne Aquifer wellfields. To date, no customers have been achieved.

6.7 INTERGOVERNMENTAL COORDINATION

In preparation for this document, the City coordinated with several governmental agencies; Specifically, the City's Community Development and Utilities Department staff met with the South Florida Water Management District, the Town of Davie, the City of Weston, and the Town of Southwest Ranches. Through these meetings, the population projections and water demand projections upon which this Plan is based were jointly developed, establishing the basis for continued communication as future growth occurs.

6.7.1 Ongoing Coordination Activities with All Water Service Receiving Local Governments

The City of Sunrise has actively participated in Broward County's Water Advisory Board. The Utilities Director and Deputy Director actively participate in the board meetings. The Utilities Director also serves as a member of the Board's Technical Advisory Committee. The purpose of the board is to advise and make recommendations to the Broward County Board of County Commissioners in matters relating to the development, use, and management of water resources within Broward County which may include, but are not limited to, water supply, water conservation, ground water recharge, reuse of wastewater effluent, and stormwater management.

Additionally, the City of Sunrise Utilities staff is actively engaged in local professional groups such as the Southeast Florida Utility Council (SEFLUC), which provides a communications, networking, and support structure for member utilities for matters related to water supply and wastewater management services. Other professional groups related to water supply include the Florida Water Environment Association (FWEA) and WateReuse Florida.

6.7.2 Needs for Additional Coordination Activities

The above-mentioned local planning and professional groups serve as an additional means of continued coordination with all local governments receiving water from the City. Based on the most recent coordination meetings for this update, no pending issues were identified between the City of Sunrise and the local governments receiving water from the City. Therefore, no additional coordination activities are identified at this time other than the continuous engagement as described above. In the most recent coordination meetings, the most recent historic data and data projections, current and future plans, policies, and goals were discussed, and all parties had an agreement and common understanding of these items. No further discussions are required unless changes in the items discussed arise in the future.

6.7.3 Coordination with LEC Plan Update

The City of Sunrise actively participates in LEC Plan Updates and provides information and coordination as requested by the District. In the most recent coordination meetings, no pending issues were identified between the parties involved.

6.7.4 Information on Memoranda of Understanding, Bulk Service Agreements and Contracts

The following is a summary of the agreements between the City of Sunrise and the municipalities that are within its service area.

City of Weston – The City provides water service to the City of Weston ("Weston") on both a wholesale and retail basis. The City of Weston does not provide utility service within its corporate boundaries. With respect to wholesale service, the City provides water and wastewater service to the Indian Trace Community Development District (the "ITCDD"), a community development district located solely within the corporate boundaries of Weston. The ITCDD receives wholesale service from the City pursuant to the Bulk Sale of Water and Sewer Services Agreement dated October 29, 1980, as amended (the "ITCDD Agreement"). The ITCDD Agreement was renewed on June 30, 2023, it has a term of thirty (30) years with an expiration date of June 30, 2053.

The City also provides retail service to the City of Weston. This service area was previously served by the Bonaventure Utilities Corporation water and wastewater utility system (the "Bonaventure System"), a privately-owned system. The City purchased the Bonaventure System in 1976. At the time of purchase, the service area was located in unincorporated Broward County; subsequent to the purchase, the City of Weston annexed the service area into its city limits. Since the City owned the Bonaventure System and provided retail utility service to such customers prior to such annexation, the City has the authority to provide utility service within the City of Weston. The parties do not have a franchise agreement or any other similar agreement that allows the City of Sunrise to operate this component of the utility within the municipal boundaries of the City of Weston.

Town of Davie – the City provides water and wastewater service to the western portion of the Town of Davie ("Davie") on a retail basis. Under the terms and conditions of a Settlement in the Civil Cases between Davie and the City dated May 6, 1987 (the "Davie Agreement"), the City was granted the right to provide water and wastewater service within a portion of the corporate limits of Davie. The Agreement does not contain a date of expiration, and it is assumed by the City that it has a perpetual right to provide utility service to this portion of the Town of Davie. After the execution of the Davie Agreement, the parties have entered into a series of amendments to such agreement, which allowed the City to expand its water and wastewater service area located within the Town of Davie. Each amendment essentially identified the additional service area and customer base that the City would be authorized to serve. As part of this authorization to provide service within Davie, the City purchased the South Broward Utility, Inc. water and wastewater system (the "SBU System"), a portion of which was located in the Town of Davie and a portion of which was located in unincorporated Broward County, which later became the Town of Southwest Ranches.

Town of Southwest Ranches – the City provides water service to the Town of Southwest Ranches on a retail basis. At the time of purchase of the SBU System, the service area was located in unincorporated Broward County; after the purchase, the Town of Southwest Ranches became incorporated. Since the City owned the SBU System and provided retail water service to such customers before the incorporation of this area by the Town of Southwest Ranches, the City has the authority to provide water service to the Town of Southwest Ranches. The parties do not have

a franchise agreement or any other similar agreement that allows the City to provide water service in the municipal boundaries of Southwest Ranches.

Park City – the City purchased the privately owned Pine Island Utilities Corporation water and wastewater system in 1974. The area served by this system was referred to as Park City and was located, at the time of acquisition by the City, in unincorporated Broward County. Since the acquisition of this utility system, the Town of Davie has annexed the Park City service area into its corporate limits; however, the City still provides utility service for this service area.

6.8 CAPITAL IMPROVEMENT ELEMENT

The City has initiated development of a reuse water system that will initially target large users in the western portions of the utility service area. The City intends to apply for the water to retire existing WUPs and substitute them with reuse water. The retired WUPs could be transferred to the City's Biscayne wells with a substitution credit (volumes for credit are to be determined as part of the application process) that results in an alternative water supply for the City without impacting the regional system. The City has completed construction of a 1 MGD reuse water facility at Southwest WWTP, as well as completed the construction of a 2 MGD reuse facility at Sawgrass WWTP. The City is also a participant in the C-51 Reservoir Project for an additional alternative water supply allocation. The City has initiated the implementation of Advanced Metering Infrastructure Project to assist in lowering the unaccounted for water losses. The City is in the process of initiating the project Springtree WTP Upgrades to Address PFAS in the FY 25-FY 26 budget.

6.9 GOALS, OBJECTIVES, POLICIES

6.9.1 Existing Goals, Objectives, and Policies

The following are the existing goals, objectives and policies compiled from the City's 2018 Comprehensive Plan (amended 2025) and are in support of the City's Ten-Year Water Supply Facilities Work Plan. New additions to the GOPs are shown with an underlined format while deletions are shown with a strike through format in the text below.

PLANNING AND INTERGOVERNMENTAL COORDINATION

- The City of Sunrise shall adopt and implement the Ten-Year Water Supply Facilities Work Plan to increase the coordination between land use and future water supply planning within 18 months of the adoption of the Lower East Coast (LEC) Water Supply Plan, as required by Chapter 163, Florida Statutes. (Future Land Use Element, Policy 14.1.2).
- The City of Sunrise will provide immediate and ongoing coordination with the South Florida Water Management District (SFWMD) to ensure that the City's plans, requirements and related actions contained in the Ten-Year Water Supply Facilities Work Plan are consistent with the Lower East Coast (LEC) Regional Water Supply Plan (Intergovernmental Coordination Element, Policy 1.1.19).



- The City of Sunrise shall coordinate the Comprehensive Plan and its implementation with the State, the South Florida Regional Planning Council (SFRPC), Broward County and adjacent municipalities, as well as the School Board of Broward County (SBBC), the South Florida Water Management District (SFWMD), and all applicable special districts, as needed (Intergovernmental Coordination Element, Objective 1.1).
- The City of Sunrise will review reports and plans prepared by the South Florida Water Management District (SFWMD), the Broward County Solid Waste Disposal District (BCSWDD) and the Central Broward Water Control District (CBWCD) and identify potential conflicts with the City's adopted Comprehensive Plan (Intergovernmental Coordination Element, Policy 1.1.12).
- The City of Sunrise, in cooperation with the appropriate federal, state, county and other local governmental agencies, shall encourage the appropriate coordinated level of service (LOS) facilities and services. The City of Sunrise shall continue to provide utility services to governments with which the City has executed agreements and will continue to exchange information with surrounding local governments regarding relative items affecting the standing of such service agreements (Intergovernmental Coordination Element, Objective 1.2; Policy 1.2.4).
- Where appropriate and feasible, the City of Sunrise's Ten-Year Water Supply Facilities Plan shall include ongoing collaborative approaches with other local governments for long term alternative water supply source use and water treatment technology. The City of Sunrise will hold annual meetings with local governments in the City's Water Service Area and the South Florida Water Management District (SFWMD) to discuss forecasted populations, service area expansions, review of land use changes that increase water supply demand and review the implementation of conservation reuse programs and alternative water supplies. (Infrastructure Element, Policy 1.1.12; Intergovernmental Coordination Element, Policy 1.1.21).
- The City of Sunrise will continue to provide centralized wastewater, solid waste, drainage and potable water facilities and services to meet existing and projected demands identified in this plan; as such the City will not permit septic tanks and potable wells. (Infrastructure Element, Goal 2).
- The City of Sunrise shall ensure and identify the consistency of local level of service (LOS) standards by contacting all local governments in which water service is provided and obtain current information, including: populations, LOS, service areas, and water supply facilities, and evaluate if future modification to either the service agreement or LOS standards should be included in subsequent Comprehensive Plan amendments. (Intergovernmental Coordination Element, Policy 1.2.5).
- The City of Sunrise shall negotiate or renew inter-local agreements with local governments in which water is supplied, ensuring contractual agreement of the adopted level of service (LOS) standards, service area, populations and time periods for services provided. (Intergovernmental Coordination Element, Policy 1.2.6).

- The City of Sunrise shall participate in updates to the Broward County Population Forecast and Allocation Model (PFAM), prepared by Broward County, to ensure projections accurately reflect existing and anticipated development within the City. City staff will provide information relating to land use, housing, and building permits to the appropriate person(s) in order to enable the County to develop coordinated and consistent population projections. (Intergovernmental Coordination Element, Policy 1.4.2)
- Upon adoption of the Broward County Population Forecast and Allocation Model (PFAM) into the Broward County Land Use Plan (BCLUP), the City of Sunrise shall review the final projections to ensure the population estimates and projections, prepared by Broward County, accurately reflect existing and/or anticipated future development within the City. (Intergovernmental Coordination Element, Policy 1.4.3)
- The City of Sunrise shall continue to review proposed comprehensive plan amendments of adjacent municipalities and Unincorporated Broward County which may affect the anticipated needs for wastewater and/or potable water services. (Intergovernmental Coordination Element, Policy 1.4.6)
- The City of Sunrise shall review the level of service (LOS) standards adopted, or amended, by all adjacent local governments that receive water from the City. (Intergovernmental Coordination Element, Policy 1.2.7).
- Concurrency Management System: Public facilities and services will be available at a level of service (LOS) established within the City of Sunrise Comprehensive Plan concurrent with impacts of development (Concurrency Management System). (Future Land Use Element, Objective 10.4).
- The City shall administer a Concurrency Management System to effectively manage new growth and to ascertain whether necessary facilities identified within the Capital Improvement Element are being constructed in accordance with the schedules therein and to measure the development capacity of such facilities in a given area at a given time. This review of public facilities shall cover at least a five (5) year period. (Future Land Use Element, Policy 10.4.1).
- To ensure that the necessary facilities and services are available concurrent with the impacts of development, the City shall continue to implement, and amend as necessary, the City of Sunrise Code of Ordinances. (Future Land Use Element, Policy 10.4.3).
- Amendments to the City of Sunrise Future Land Use Map proposing industrial uses that could result in contamination of the aquifer shall be discouraged within wellfield protection zones of influence (as identified by the Broward County Wellfield Protection Ordinance). (Future Land Use Element, Policy 14.1.4).
- Provide immediate and ongoing coordination of water supply planning and land use planning activities of the City of Sunrise with municipalities receiving water from the City and provide water to ensure that the water needs of the City's residents and other municipalities within the City's Water Service Area are met. (Future Land Use Element, Objective 14.5).

- Maintain consistency between the demand calculations in the City of Sunrise's Ten-Year Water Supply Facilities Work Plan and the population projections contained in the Future Land Use Element. (Future Land Use Element, Policy 14.5.1).
- Provide ongoing monitoring of water demands and applications related to future land use plan amendments located within the City's Water Service Area as defined in the City of Sunrise's Ten-Year Water Supply Facilities Work Plan. (Future Land Use Element, Policy 14.5.2).
- The City of Sunrise shall provide timely amendments to its Code of Ordinances in order to encourage water conservation through a tiered water and wastewater fee structure, which effectively discourages the use of water for all but essential needs by increasing the rates for abnormally high usages by types of use (i.e., business, residential, landscaping, etc.). (Future Land Use Element, Policy 14.5.3).
- The City of Sunrise will provide the South Florida Water Management District (SFWMD) with all required reports based on the Ten-Year Water Supply Facilities Plan, including on the status of the development of new alternative water supply facilities. (Intergovernmental Coordination Element, Policy 1.1.20).
- Aquifer protection through responsible land use and activity. To protect aquifers and groundwater resources and prevent pollution the City will discourage septic tanks and potable wells. (Infrastructure Element Objective 3.2, Policy 3.2.1).

LEVEL OF SERVICE

- Levels of Service (LOS) and Concurrency Management: The City of Sunrise shall implement procedures to ensure that at the time a development order or permit is issued, adequate facility capacity is available or will be available when needed to serve the development prior to issuance of a building permit. (Infrastructure Element, Objective 1.1).
- The following level of service (LOS) standards are hereby adopted and shall be used as the basis for determining the availability of facility capacity and the demand generated by a development:

FACILITY LEVEL OF SERVICE (LOS) STANDARD

Potable Water Annual average daily flow shall not exceed 90 percent (90%) of design capacity of the combined treatment plants. The system shall maintain the capacity to produce and deliver ~~402~~ 101 gallons per person per day. This LOS is calculated based on the methodology acceptable to South Florida Water Management District. (Infrastructure Element, Policy 1.1.1)

Wastewater Annual average daily flow shall not exceed 90 percent (90%) of design capacity of each treatment plant. The system shall maintain the capacity to collect, treat and dispose of ~~93~~ 92 gallons per person per day (Infrastructure Element, Policy 1.1.1).



- The City of Sunrise hereby adopts by reference the 10-Year Water Supply Facilities Work Plan, prepared by Stantec Consulting Services, Inc., dated ~~January 2020~~ July 2025, for a planning period of not less than 10 years. The 10-Year Water Supply Facilities Work Plan addresses issues that pertain to water supply facilities and requirements needed to serve current and future development within the City of Sunrise Utility Service Area. The City shall review and update the Work Plan at least every five (5) years within eighteen (18) months after the governing board of the South Florida Water Management District (SFWMD) approves an updated Regional Water Supply Plan. Any changes affecting the 10-Year Water Supply Facilities Work Plan shall be included in the annual update to the Five-Year Schedule of Capital Improvements to ensure consistency between the Infrastructure Element and the Capital Improvements Element (Infrastructure Element, Policy 1.1.13).
- Assure that adequate water supplies and potable water facilities meeting the adopted level of service (LOS) shall be in place and available to serve new development no later than the issuance of a building permit. (Infrastructure Element, Policy 1.1.7).
- The City of Sunrise, in cooperation with the appropriate federal, state, county and other local governmental agencies, shall encourage the appropriate coordinated level of service facilities and services. The City of Sunrise shall continue to provide utility services to governments with which the City has executed agreements and will continue to exchange information with surrounding local governments regarding relative items affecting the standing of such service agreements (Intergovernmental Coordination Element, Objective 1.2; Policy 1.2.4).

COMPLIANCE

- Monitor water usage for compliance with the City of Sunrise's ~~Consumptive~~ Water Use Permit. (Infrastructure Element, Policy 1.1.8).
- Maintain a Water Supply Facilities Work Plan for at least a 10 year planning period addressing the water supply facilities necessary to serve existing and future development within the City's water service area. (Infrastructure Element, Policy 1.1.10).
- Wellfields: Protect the quality and quantity of the City of Sunrise's potable water supply and eliminate the presence of all regulated substances, as defined in Chapter 27, Article XIII, Broward County Wellfield Protection Ordinance, as amended, Broward County Code of Ordinances from the potable wellfield zones of influence of Sunrise's existing and planned wellfields, as depicted on the Wellfields Map (Figure A-2). (Future Land Use Element, Objective 14.1).
- Update adopted level of service (LOS) for consistency with the South Florida Water Management Districts (SFWMD) Lower East Coast (LEC) Water Supply Plan when proposing or amending the Ten-Year Water Supply Facilities Work Plan. At a minimum, this coordination shall take place within eighteen (18) months following an update to the LEC and be documented in the text of the Water Supply Facilities Work Plan. (Infrastructure Element, Policy 1.1.11).



CAPITAL IMPROVEMENTS

- Projected demands for the Five-Year Schedule of Capital Improvement needs for public facilities, will be met by undertaking projects listed in the Capital Improvement Element and by scheduling projects as identified in the Infrastructure and analysis. (Infrastructure Element, Objective 2.2).
- The annual summaries of facility capacity and demands information prepared by the Utilities Department shall be used to evaluate the need for timing, location and type of projects to extend or increase the capacity of existing facilities. (Infrastructure Element, Policy 2.2.1).
- All projects required to meet projected demands shall be scheduled in the Capital Improvements Element of this plan in accordance with the requirements of Section 163.3177(3), Florida Statutes, and in compliance with the Ten-Year Water Supply Facilities Work Plan.(Infrastructure Element, Policy 2.2.2).
- Wastewater: Annual average daily flow shall not exceed 90 percent (90%) of design capacity until buildout. The system shall maintain the capacity to collect, treat and dispose of ~~93~~ 92 gallons per person per day (Capital Improvements Element, Policy 1.2.1).
- Potable Water: Average daily flow shall not exceed ninety percent (90%) of design capacity of the combined treatment plants. The system shall maintain the capacity to produce and deliver ~~402~~ 101 gallons per person per day. (Capital Improvements Element, Policy 1.2.3).
- The City of Sunrise shall adequately fund and make capital improvements through the City's Renewal and Replacement Program necessary to keep its present public facilities in good condition and to accommodate new development, within sound fiscal practices. (Capital Improvements Element, Policy 1.2.10).
- The City of Sunrise shall provide adequate potable water and wastewater facilities meeting the adopted level of service (LOS) and available to serve new development concurrent with the impacts of development, or that development orders and permits shall be specifically conditioned on the availability of facilities and services necessary to serve the proposed development prior to the issuance of a Certificate of Occupancy. (Capital Improvements Element, Policy 1.2.11).
- The City of Sunrise shall implement the water supply projects described in the Ten-Year Water Supply Facilities Work Plan. These improvements shall be incorporated into the Capital Improvements Element and the City's budget on an annual basis. (Capital Improvements Element, Policy 1.2.12).

CONSERVATION

- The City of Sunrise shall continue to use multiple programs for year-round water conservation. (Conservation Element, Policy 1.6.1).
- The City of Sunrise shall work with the South Florida Water Management District (SFWMD), Broward County, municipalities, independent drainage districts, and



neighboring counties to plan for and develop additional surface water storage and conveyance improvements for supply, including those for the C-51 Reservoir project (Conservation Element, Policy 1.6.11).

- The City of Sunrise shall adopt water conservation measures similar to those adopted by the South Florida Water Management District (SFWMD) in the Lower East Coast (LEC) Water Supply Plan. (Future Land Use Element, Policy 14.1.3)
- The City of Sunrise is committed to support the C-51 Reservoir Project, ~~identifying potential demands from thirty 30-year population projections through its Water Use Permit~~, and will participate in a collaborative process with Broward County, Fort Lauderdale and other willing cities in Broward, Palm Beach and Miami-Dade counties for delivery of this alternative water supply program of projects (Intergovernmental Coordination Element, Policy 1.1.24).
- Conserve potable water by pursuing implementation of the water conservation practices described in the Ten-Year Water Supply Facilities Work Plan (Infrastructure Element, Objective 2.3).
- Irrigation with potable water will be discouraged. (Infrastructure Element, Policy 2.3.1).
- Continue to implement a monitoring plan for construction water usage through the installation for temporary meters. (Infrastructure Element, Policy 2.3.2).
- Increase rates for abnormally high usages by type of business or residential use. (Infrastructure Element, Policy 2.3.3).
- The City of Sunrise shall coordinate as needed with the South Florida Water Management District (SFWMD) to evaluate the development and potential implementation of a program for the voluntary conservation of water through rationing or restricting usage periods. (Infrastructure Element, Policy 2.3.4).
- Require low volume water saving fixtures. (Infrastructure Element, Policy 2.3.5).
- Continue to evaluate other methods of encouraging water conservation such as the reuse of reclaimed water as provided in the 10-Year Water Supply Facilities Plan. (Infrastructure Element, Policy 2.3.6).
- The City of Sunrise shall immediately provide conservation measures by implementing process improvements associated with treatment of water from the Sawgrass plant to increase treatment efficiency by five percent (5%) and reduce water lost from the water treatment process. (Infrastructure Element, Policy 2.3.7).
- The City of Sunrise shall use land development regulations to preserve key natural groundwater aquifer recharge areas. The City of Sunrise shall not allow development identified as non-complying to Broward County Ordinance 89.6 and which does not protect or conserve existing fisheries, wildlife habitats, lakes, floodplains, and wetlands. (Conservation Element, Policy 1.3.3).

- In order to protect and preserve the Biscayne Aquifer the City of Sunrise will utilize alternative water supplies to supplement the City's ~~consumptive use~~ Water Use permit water withdrawal allocation. (Conservation Element, Policy 1.3.6).
- The City of Sunrise shall provide for emergency conservation of water in accordance with the plans of the South Florida Water Management District (SFWMD) and the City's Ten-Year Water Supply Facilities Work Plan. (Conservation Element, Objective 1.6).
- The City of Sunrise shall immediately implement emergency measures for conservation of water resources when required or requested by the South Florida Water Management District (SFWMD). Conservation action shall include but not be limited to: a program for the voluntary conservation of water through restricting usage periods and/or rationing. Nonessential water usage such as lawn watering and other outdoor activities would be limited to certain days of the week and times of the day as required by the SFWMD. (Conservation Element, Policy 1.6.2).
- The City of Sunrise shall continue to require through the Land Development Code (LDC) requiring Florida Friendly plantings in all new developments and redevelopment, which will reduce the overall amount of all types of water to be used for irrigation purposes. (Conservation Element, Policy 1.6.3).
- The City of Sunrise shall continue the usage monitoring campaign which includes the identification of potential sources of illegal water use (i.e., construction activity, non-metered facilities, etc.). Penalties for illegal water use should continue to be enforced by the City. If necessary, to encourage conservation by the public, an awareness campaign in conjunction with the SFWMD will be publicized. (Conservation Element, Policy 1.6.4).
- The City of Sunrise should encourage conservation by the public through an educational awareness campaign supporting environmental education program (Conservation Element, Policy 1.6.7).
- The City of Sunrise shall provide timely amendments to its Land Development Code (LDC) to encourage water conservation through a tiered water and waste water fee structure, which effectively discourages the use of water for all but essential needs by increasing the rates for abnormally high usages by types of use (e.g., business, residential, landscaping, etc.). (Conservation Element, Policy 1.6.5).
- The City of Sunrise shall continue to support the Broward NatureScape Program, which promotes landscapes that conserve water, protect water quality, and creates wildlife habitat in new development and redevelopment. (Conservation Element, Policy 1.6.6).
- In an effort to reduce water usage, the City of Sunrise shall immediately utilize measures outlined in the Water Conservation Ordinance for Landscape Irrigation and Florida Department of Environmental Protection's (FDEP) Florida Statewide Comprehensive Water Conservation Program for Public Water Supply. (Conservation Element, Policy 1.6.8).

- The City of Sunrise shall require new development and redevelopment to implement automatic self-actuating water conservation measures, to be utilized year-round during periods of declared drought. These conservation measures include restricted water use for irrigation purposes to the hours indicated in the South Florida Water Management District's (SFWMD) Comprehensive Water Conservation Plan. (Conservation Element, Policy 1.6.9).
- The City of Sunrise shall continue to seek conservation measures for implementing process improvements associated with treatment of water from the City's water and wastewater treatment plants (WWWTP) to increase treatment efficiency and reduce water lost from the water treatment process. (Conservation Element, Policy 1.6.10).

REUSE

- Groundwater Recharge: The City of Sunrise shall continue to protect the function of designated aquifer recharge areas through implementation of the following policies and land development regulations. (Infrastructure Element, Objective 3.1).
- Natural groundwater aquifer recharge areas will be maintained to provide for quality groundwater recharge. (Infrastructure Element, Policy 3.1.1).
- The City of Sunrise will coordinate with local, state and federal agencies to achieve regional aquifer recharge protection objectives. (Infrastructure Element, Policy 3.1.3).
- The City of Sunrise shall participate in the development and implementation of aquifer recharge area protection programs to meet national, state or regional objectives. (Infrastructure Element, Policy 3.1.4).
- The City of Sunrise shall work the South Florida Water Management District (SFWMD), municipalities, independent drainage districts and neighboring counties to plan and develop additional surface water storage opportunities including the C-51 Reservoir Project in Palm Beach County and the water preserve areas in western Broward County. (Infrastructure Element, Policy 3.1.5).

6.10 CONCLUSIONS

The City of Sunrise Water Utility has a long-standing practice for planning and developing a water system capable of meeting all the needs of its customers, both current and future. This is evidenced by its construction and operation of a water system capable of meeting not only today's demands but also demands through 2045.

As the South Florida Water Management District determined that the Biscayne Aquifer water resource can no longer be relied upon to supply future growth demands following the passage of the Water Availability Rule, the City has prepared to draw upon alternative water sources to meet future needs, as well as implemented measures to enhance efficiency and prevent losses, and have prepared to deliver beneficial wastewater reuse projects, initiated installation of Advanced Metering Infrastructure to reduce unaccounted for water losses and participated in the C-51



Reservoir Project to make up raw water supply shortfalls. These projects, along with our inter-governmental coordination, and active conservation measures, which range from policies and programs that include the guidance of sound land use planning, development, and landscaping; as well as consumer outreach, education, assistance (incentives), and enforcement, combine to position the City to be responsive to its water supply needs.

In summary, the City has prepared this Plan to ensure its water supply and facilities will meet its future demands. This Plan has been prepared as per State and regional coordination requirements, specifically as per the South Florida Water Management District's 2024 regional Lower East Coast Water Supply Plan. Local governments are required to update and adopt their Water Supply Facilities Work Plan by March 2026.

In preparing this Plan, the water supply and demand projections were formulated through assessment of population growth projections and anticipated development. The projections were compared to the data in the SFWMD's Lower East Coast Plan and to Broward County's population projections, and robust inter-governmental coordination was conducted with the local governments within the service area to review for any planned land use amendments or developments that may impact projections and require consideration in planning.

This Water Supply Work Plan, as formulated, matches alternative source water development with water demand growth. The result is a Plan that the City can fund from cash reserves for the next five years. It is a plan that satisfies the requirements of its Water Use Permit and meets projected growth. Additionally, the plan is designed to minimize the City's risk by providing significant flexibility with the timing of new facilities, thus minimizing capital outlay until it is needed.

Regulatory compliance, such as PFAS compliance, was also considered in the development of this Plan. In particular, the Plan to meet projected growth and future demand builds from the conditions and requirements of the Water Use Permit. In addition, the City's Plan incorporates measures integrating related regulatory requirements and policy objectives, such as those around water conservation.

Table 6-3. Comparison of Facility Capacity and Anticipated Future Permitted Amount

	2025	2030	2035	2040	2045
Population Served	236,400	238,900	240,000	240,400	248,000
Average Daily Demand (Finished) (MGD) ¹	23.88	24.68	25.62	25.65	26.43
Demand per Capita Finished (GPCD)	101	101	101	101	101
Available Facility Capacity (MGD)	51.50	53.50	61.50	61.50	61.50
Facility Capacity Surplus (Deficit) ²	27.62	28.82	35.88	35.85	35.07
Anticipated Permitted Amount (MGD Ann. Avg.)	29.09	29.09	32.77	32.77	32.77
Anticipated Permitted Surplus MGD (Deficit) ³	2.68	1.64	2.63	2.59	1.81

¹MGD = Million Gallons per Day

²Calculated by subtracting Average Daily Demand from Available Facility Capacity

³The currently permitted raw water amount is 32.31 MGD (including C-51 Reservoir and limited by maximum yearly withdrawal). The City has applied for Water Use Permit for C-51 Reservoir Project allocation. For the purpose of this calculation, existing Biscayne Aquifer allocation will remain under 29.09 until 3031, and after will be 32.31 MGD. and Floridan Aquifer allocation is not yet included (2 MGD). Additional water demands will be met by, C-51 Reservoir Project source supply associated credits, Advanced Metering Infrastructure, and additional permitted withdrawal from Floridan Aquifer.

(Source: Computed by City of Sunrise, Stantec, 2025)



**Table 6-4. City of Sunrise, Alternative Water Supply Project Capital Costs
(No Capital is Currently Required for Alternative Water Supply Projects)**

Project Name	Expenditure ¹ (In Millions of Dollars)						
	Funding Source	2026	2027	2028	2029	2030	Five-Year Totals
Springtree WTP RO to Nanofiltration (NF) Conversion–Phase I	403 & 465	7.2					7.2
Springtree WTP Nanofiltration – Phase II	465	3.8					3.8
Advanced Metering Infrastructure	465 & 475	11.2					11.2

1. Source: Adopted Five-Year Capital Improvement Program – Fiscal Year 2025/2026
(Source: City of Sunrise, 2025)

Appendix A **GROWTH POLICY; COUNTY AND MUNICIPAL
PLANNING; LAND DEVELOPMENT REGULATION,
CHAPTER 163, F.S. RELATED TO WATER SUPPLY
PLANNING**

**CHAPTER 163 RELEVANT PORTIONS OF CITED
FLORIDA STATUTE PROVISIONS**

CITED FLORIDA STATUTE PROVISIONS (RELEVANT PORTIONS ONLY)

Source: Chapter 163, Part II, Florida Statutes (2024) – Growth Policy; County and Municipal Planning; Land Development Regulation

163.3167(9): Each local government shall address in its comprehensive plan, as enumerated in this chapter, the water supply sources necessary to meet and achieve the existing and projected water use demand for the established planning period, considering the applicable plan developed pursuant to s. 373.709.

163.3177(3)(a): The comprehensive plan must contain a capital improvements element designed to consider the need for and the location of public facilities in order to encourage the efficient use of such facilities and set forth all of the following:

1. A component that outlines principles for construction, extension, or increase in capacity of public facilities, as well as a component that outlines principles for correcting existing public facility deficiencies, which are necessary to implement the comprehensive plan. The components must cover at least a 5-year period.
2. Estimated public facility costs, including a delineation of when facilities will be needed, the general location of the facilities, and projected revenue sources to fund the facilities.
3. Standards to ensure the availability of public facilities and the adequacy of those facilities to meet established acceptable levels of service.
4. A schedule of capital improvements which includes any publicly funded projects of federal, state, or local government, and which may include privately funded projects for which the local government has no fiscal responsibility. Projects necessary to ensure that any adopted level-of-service standards are achieved and maintained for the 5-year period must be identified as either funded or unfunded and given a level of priority for funding. The schedule must:
 - a. Include transportation improvements included in the applicable metropolitan planning organization's transportation improvement program adopted pursuant to s. 339.175(8) to the extent that such improvements are relied upon to ensure concurrency and financial feasibility;
 - b. Where applicable, include a list of projects necessary to achieve the pollutant load reductions attributable to the local government, as established in a basin management action plan pursuant to s. 403.067(7); and
 - c. Be coordinated with the applicable metropolitan planning organization's long-range transportation plan adopted pursuant to s. 339.175(7).

163.3177(4)(a): Coordination of the local comprehensive plan with the comprehensive plans of adjacent municipalities, the county, adjacent counties, or the region; with the appropriate water management district's regional water supply plans approved pursuant to s. [373.709](#); and with adopted rules pertaining to designated areas of critical state concern shall be a major objective of the local comprehensive planning process. To that end, in the preparation of a comprehensive plan

or element thereof, and in the comprehensive plan or element as adopted, the governing body shall include a specific policy statement indicating the relationship of the proposed development of the area to the comprehensive plans of adjacent municipalities, the county, adjacent counties, or the region, as the case may require and as such adopted plans or plans in preparation may exist.

163.3177(5)(a): Each local government comprehensive plan must include at least two planning periods, one covering at least the first 10-year period occurring after the plan's adoption and one covering at least a 20-year period. Additional planning periods for specific components, elements, land use amendments, or projects shall be permissible and accepted as part of the planning process.

163.3177(6)(a): A future land use plan element designating proposed future general distribution, location, and extent of the uses of land for residential uses, commercial uses, industry, agriculture, recreation, conservation, education, public facilities, and other categories of the public and private uses of land. The approximate acreage and the general range of density or intensity of use shall be provided for the gross land area included in each existing land use category. The element shall establish the long-term end toward which land use programs and activities are ultimately directed.

163.3177(6)(a)2: The future land use plan and plan amendments shall be based upon surveys, studies, and data regarding the area, as applicable, including:

- a) The amount of land required to accommodate anticipated growth.
- b) The projected permanent and seasonal population of the area.
- c) The character of undeveloped land.
- d) The availability of water supplies, public facilities, and services.
- e) The need for redevelopment, including the renewal of blighted areas and the elimination of nonconforming uses which are inconsistent with the character of the community.
- f) The compatibility of uses on lands adjacent to or closely proximate to military installations.
- g) The compatibility of uses on lands adjacent to an airport as defined in s. 330.35 and consistent with s. 333.02.
- h) The discouragement of urban sprawl.
- i) The need for job creation, capital investment, and economic development that will strengthen and diversify the community's economy.
- j) The need to modify land uses and development patterns within antiquated subdivisions.

163.3177(6)(c): A general sanitary sewer, solid waste, drainage, potable water, and natural groundwater aquifer recharge element correlated to principles and guidelines for future land use, indicating ways to provide for future potable water, drainage, sanitary sewer, solid waste, and aquifer recharge protection requirements for the area. The element may be a detailed engineering plan including a topographic map depicting areas of prime groundwater recharge.

1. Each local government shall address in the data and analyses required by this section those facilities that provide service within the local government's jurisdiction. Local governments that provide facilities to serve areas within other local government jurisdictions shall also address those facilities in the data and analyses required by this section, using data from the comprehensive plan for those areas for the purpose of projecting facility needs as required in this subsection. For shared facilities, each local government shall indicate the proportional capacity of the systems allocated to serve its jurisdiction.
2. The element must describe the problems and needs and the general facilities that will be required for solution of the problems and needs, including correcting existing facility

deficiencies. The element must address coordinating the extension of, increase in the capacity of, or upgrade in treatment of facilities to meet future needs; prioritizing advanced waste treatment while maximizing the use of existing facilities and discouraging urban sprawl; conserving potable water resources; and protecting the functions of natural groundwater recharge areas and natural drainage features.

3. Within the local government's jurisdiction, for any development of more than 50 residential lots, whether built or unbuilt, with more than one onsite sewage treatment and disposal system per 1 acre, the element must consider the feasibility of providing sanitary sewer services within a 10-year planning horizon and must identify the name and location of the wastewater facility that could receive sanitary sewer flows after connection; the capacity of the facility and any associated transmission facilities; the projected wastewater flow at that facility for the next 20 years, including expected future new construction and connections of onsite sewage treatment and disposal systems to sanitary sewer; and a timeline for the construction of the sanitary sewer system. An onsite sewage treatment and disposal system is presumed to exist on a parcel if sanitary sewer services are not available at or adjacent to the parcel boundary. Each comprehensive plan must be updated to include this element by July 1, 2024, and as needed thereafter to account for future applicable developments. This subparagraph does not apply to a local government designated as a rural area of opportunity under s. 288.0656.
4. Within 18 months after the governing board approves an updated regional water supply plan, the element must incorporate the alternative water supply project or projects selected by the local government from those identified in the regional water supply plan pursuant to s. 373.709(2)(a) or proposed by the local government under s. 373.709(8)(b). If a local government is located within two water management districts, the local government must adopt its comprehensive plan amendment within 18 months after the later updated regional water supply plan. The element must identify such alternative water supply projects and traditional water supply projects and conservation and reuse necessary to meet the water needs identified in s. 373.709(2)(a) within the local government's jurisdiction and include a work plan, covering at least a 10-year planning period, for building public, private, and regional water supply facilities, including development of alternative water supplies, which are identified in the element as necessary to serve existing and new development. The work plan must be updated, at a minimum, every 5 years within 18 months after the governing board of a water management district approves an updated regional water supply plan. Local governments, public and private utilities, regional water supply authorities, special districts, and water management districts are encouraged to cooperatively plan for the development of multijurisdictional water supply facilities that are sufficient to meet projected demands for established planning periods, including the development of alternative water sources to supplement traditional sources of groundwater and surface water supplies.
5. A local government that does not own, operate, or maintain its own water supply facilities, including, but not limited to, wells, treatment facilities, and distribution infrastructure, and is served by a public water utility with a permitted allocation of greater than 300 million gallons per day is not required to amend its comprehensive plan in response to an updated regional water supply plan or to maintain a work plan if any such local government's usage of water constitutes less than 1 percent of the public water utility's total permitted allocation. However, any such local government shall cooperate with, and provide relevant

data to, any local government or utility provider that provides service within its jurisdiction, and shall keep its general sanitary sewer, solid waste, potable water, and natural groundwater aquifer recharge element updated in accordance with s. 163.3191.

163.3177(6)(d): A conservation element for the conservation, use, and protection of natural resources in the area, including air, water, water recharge areas, wetlands, waterwells, estuarine marshes, soils, beaches, shores, flood plains, rivers, bays, lakes, harbors, forests, fisheries and wildlife, marine habitat, minerals, and other natural and environmental resources, including factors that affect energy conservation.

1. The following natural resources, where present within the local government's boundaries, shall be identified and analyzed and existing recreational or conservation uses, known pollution problems, including hazardous wastes, and the potential for conservation, recreation, use, or protection shall also be identified:
 - a. Rivers, bays, lakes, wetlands including estuarine marshes, groundwaters, and springs, including information on quality of the resource available.
 - b. Floodplains.
 - c. Known sources of commercially valuable minerals.
 - d. Areas known to have experienced soil erosion problems.
 - e. Areas that are the location of recreationally and commercially important fish or shellfish, wildlife, marine habitats, and vegetative communities, including forests, indicating known dominant species present and species listed by federal, state, or local government agencies as endangered, threatened, or species of special concern.
2. The element must contain principles, guidelines, and standards for conservation that provide long-term goals and which:
 - a. Protects air quality.
 - b. Conserves, appropriately uses, and protects the quality and quantity of current and projected water sources and waters that flow into estuarine waters or oceanic waters and protect from activities and land uses known to affect adversely the quality and quantity of identified water sources, including natural groundwater recharge areas, wellhead protection areas, and surface waters used as a source of public water supply.
 - c. Provides for the emergency conservation of water sources in accordance with the plans of the regional water management district.
 - d. Conserves, appropriately uses, and protects minerals, soils, and native vegetative communities, including forests, from destruction by development activities.
 - e. Conserves, appropriately uses, and protects fisheries, wildlife, wildlife habitat, and marine habitat and restricts activities known to adversely affect the survival of endangered and threatened wildlife.
 - f. Protects existing natural reservations identified in the recreation and open space element.
 - g. Maintains cooperation with adjacent local governments to conserve, appropriately use, or protect unique vegetative communities located within more than one local jurisdiction.

- h. Designates environmentally sensitive lands for protection based on locally determined criteria which further the goals and objectives of the conservation element.
 - i. Manages hazardous waste to protect natural resources.
 - j. Protects and conserves wetlands and the natural functions of wetlands.
 - k. Directs future land uses that are incompatible with the protection and conservation of wetlands and wetland functions away from wetlands. The type, intensity or density, extent, distribution, and location of allowable land uses and the types, values, functions, sizes, conditions, and locations of wetlands are land use factors that shall be considered when directing incompatible land uses away from wetlands. Land uses shall be distributed in a manner that minimizes the effect and impact on wetlands. The protection and conservation of wetlands by the direction of incompatible land uses away from wetlands shall occur in combination with other principles, guidelines, standards, and strategies in the comprehensive plan. Where incompatible land uses are allowed to occur, mitigation shall be considered as one means to compensate for loss of wetlands functions.
3. Current and projected needs and sources for at least a 10-year period based on the demands for industrial, agricultural, and potable water use and the quality and quantity of water available to meet these demands shall be analyzed. The analysis shall consider the existing levels of water conservation, use, and protection and applicable policies of the regional water management district and further must consider the appropriate regional water supply plan approved pursuant to s. 373.709, or, in the absence of an approved regional water supply plan, the district water management plan approved pursuant to s. 373.036(2). This information shall be submitted to the appropriate agencies.

163.3177(6)(h)1.: An intergovernmental coordination element showing relationships and stating principles and guidelines to be used in coordinating the adopted comprehensive plan with the plans of school boards, regional water supply authorities, and other units of local government providing services but not having regulatory authority over the use of land, with the comprehensive plans of adjacent municipalities, the county, adjacent counties, or the region, with the state comprehensive plan and with the applicable regional water supply plan approved pursuant to s. 373.709, as the case may require and as such adopted plans or plans in preparation may exist. This element of the local comprehensive plan must demonstrate consideration of the particular effects of the local plan, when adopted, upon the development of adjacent municipalities, the county, adjacent counties, or the region, or upon the state comprehensive plan, as the case may require.

- a) The intergovernmental coordination element must provide procedures for identifying and implementing joint planning areas, especially for the purpose of annexation, municipal incorporation, and joint infrastructure service areas.
- b) the intergovernmental coordination element shall provide for a dispute resolution process, as established pursuant to s. 186.509, for bringing intergovernmental disputes to closure in a timely manner.
- c) The intergovernmental coordination element shall provide for interlocal agreements as established pursuant to s. 333.03(1)(b).

163.3177(6)(h)3.b.: Ensure coordination in establishing level of service standards for public facilities with any state, regional, or local entity having operational and maintenance responsibility for such facilities.

163.3180: Concurrency

163.3180(1): Sanitary sewer, solid waste, drainage, and potable water are the only public facilities and services subject to the concurrency requirement on a statewide basis. Additional public facilities and services may not be made subject to concurrency on a statewide basis without approval by the Legislature; however, any local government may extend the concurrency requirement so that it applies to additional public facilities within its jurisdiction.

163.3180(1)(a): If concurrency is applied to other public facilities, the local government comprehensive plan must provide the principles, guidelines, standards, and strategies, including adopted levels of service, to guide its application. In order for a local government to rescind any optional concurrency provisions, a comprehensive plan amendment is required. An amendment rescinding optional concurrency issues shall be processed under the expedited state review process in s. 163.3184(3), but the amendment is not subject to state review and is not required to be transmitted to the reviewing agencies for comments, except that the local government shall transmit the amendment to any local government or government agency that has filed a request with the governing body and, for municipal amendments, the amendment shall be transmitted to the county in which the municipality is located. For informational purposes only, a copy of the adopted amendment shall be provided to the state land planning agency. A copy of the adopted amendment shall also be provided to the Department of Transportation if the amendment rescinds transportation concurrency and to the Department of Education if the amendment rescinds school concurrency.

163.3180(1)(b): The local government comprehensive plan must demonstrate, for required or optional concurrency requirements, that the levels of service adopted can be reasonably met. Infrastructure needed to ensure that adopted level-of-service standards are achieved and maintained for the 5-year period of the capital improvement schedule must be identified pursuant to the requirements of s. 163.3177(3). The comprehensive plan must include principles, guidelines, standards, and strategies for the establishment of a concurrency management system.

163.3180(2): Consistent with public health and safety, sanitary sewer, solid waste, drainage, adequate water supplies, and potable water facilities shall be in place and available to serve new development no later than the issuance by the local government of a certificate of occupancy or its functional equivalent. Prior to approval of a building permit or its functional equivalent, the local government shall consult with the applicable water supplier to determine whether adequate water supplies to serve the new development will be available no later than the anticipated date of issuance by the local government of a certificate of occupancy or its functional equivalent. A local government may meet the concurrency requirement for sanitary sewer through the use of onsite sewage treatment and disposal systems approved by the Department of Environmental Protection to serve new development.

163.3180(3): Governmental entities that are not responsible for providing, financing, operating, or regulating public facilities needed to serve development may not establish binding level-of-service standards on governmental entities that do bear those responsibilities.

163.3191: Evaluation and appraisal of comprehensive plan.

163.3191(1): At least once every 7 years, each local government shall evaluate its comprehensive plan to determine if plan amendments are necessary to reflect a minimum planning period of at least 10 years as provided in s. 163.3177(5) or to reflect changes in state requirements in this part since the last update of the comprehensive plan, and notify the state land planning agency as to its determination. The notification must include a separate affidavit, signed by the chair of the governing body of the county or the mayor of the municipality, attesting that all elements of its comprehensive plan comply with this subsection. The affidavit must also include a certification that the adopted comprehensive plan contains the minimum planning period of 10 years, as provided in s. 163.3177(5), and must cite the source and date of the population projections used in establishing the 10-year planning period.

163.3191(2): If the local government determines amendments to its comprehensive plan are necessary to reflect changes in state requirements, the local government must prepare and transmit within 1 year such plan amendment or amendments for review pursuant to s. 163.3184.

163.3191(3): Local governments shall comprehensively evaluate and, as necessary, update comprehensive plans to reflect changes in local conditions. Plan amendments transmitted pursuant to this section must be reviewed pursuant to s. 163.3184(4). Updates to the required elements and optional elements of the comprehensive plan must be processed in the same plan amendment cycle.

163.3191(4): If a local government fails to submit the letter and affidavit prescribed by subsection (1) or to transmit the update to its plan pursuant to subsection (3) within 1 year after the date the letter was transmitted to the state land planning agency, it may not initiate or adopt any publicly initiated plan amendments to its comprehensive plan until such time as it complies with this section, unless otherwise required by general law. This prohibition on plan amendments does not apply to privately initiated plan amendments. The failure of the local government to timely update its plan may not be the basis for the denial of privately initiated comprehensive plan amendments.

163.3191(5): If it is determined that a local government has failed to update its comprehensive plan pursuant to this section, the state land planning agency must provide the required population projections that must be used by the local government to update the comprehensive plan. The local government shall initiate an update to its comprehensive plan within 3 months following the receipt of the population projections and must transmit the update within 12 months. If the state land planning agency finds the update is not in compliance, it must establish the timeline to address the deficiencies, not to exceed an additional 12-month period. If the update is challenged by a third party, the local government may seek approval from the state land planning agency to process publicly initiated plan amendments that are necessary to accommodate population growth during the pendency of the litigation. During the update process, the local government may provide alternative population projections based on professionally accepted methodologies, but only if those population projections exceed the population projections provided by the state land planning agency and only if the update is completed within the timeframe set forth in this subsection.

163.3191(5): The state land planning agency may not adopt rules to implement this section, other than procedural rules or a schedule indicating when local governments must comply with the requirements of this section.

CHAPTER 373 2024 FLORIDA STATUTES

2024 FLORIDA STATUTES

(INCLUDING 2025 SPECIAL SECTION C)

Source: Chapter 373, Water Resources - Title XXVIII, Natural Resources; Conservation, Reclamation, and Use.

373.709: Regional water supply planning.—

373.709(1): The governing board of each water management district shall conduct water supply planning for a water supply planning region within the district identified in the appropriate district water supply plan under s. 373.036, where it determines that existing sources of water are not adequate to supply water for all existing and future reasonable-beneficial uses and to sustain the water resources and related natural systems for the planning period. The planning must be conducted in an open public process, in coordination and cooperation with local governments, regional water supply authorities, government-owned and privately owned water and wastewater utilities, multijurisdictional water supply entities, self-suppliers, reuse utilities, the Department of Environmental Protection, the Department of Agriculture and Consumer Services, and other affected and interested parties. The districts shall actively engage in public education and outreach to all affected local entities and their officials, as well as members of the public, in the planning process and in seeking input. During preparation, but before completion of the regional water supply plan, the district shall conduct at least one public workshop to discuss the technical data and modeling tools anticipated to be used to support the regional water supply plan. The district shall also hold several public meetings to communicate the status, overall conceptual intent, and impacts of the plan on existing and future reasonable-beneficial uses and related natural systems. During the planning process, a local government may choose to prepare its own water supply assessment to determine if existing water sources are adequate to meet existing and projected reasonable-beneficial needs of the local government while sustaining water resources and related natural systems. The local government shall submit such assessment, including the data and methodology used, to the district. The district shall consider the local government's assessment during the formation of the plan. A determination by the governing board that initiation of a regional water supply plan for a specific planning region is not needed pursuant to this section is subject to s. 120.569. The governing board shall reevaluate the determination at least once every 5 years and shall initiate a regional water supply plan, if needed, pursuant to this subsection.

373.709(2): Each regional water supply plan must be based on at least a 20-year planning period and must include, but need not be limited to:

(a) A water supply development component for each water supply planning region identified by the district which includes:

1. A quantification of the water supply needs for all existing and future reasonable-beneficial uses within the planning horizon. The level-of-certainty planning goal associated with identifying the water supply needs of existing and future reasonable-

beneficial uses must be based upon meeting those needs for a 1-in-10-year drought event.

- a. Population projections used for determining public water supply needs must be based upon the best available data. In determining the best available data, the district shall consider the University of Florida Bureau of Economic and Business Research (BEBR) medium population projections and population projection data and analysis submitted by a local government pursuant to the public workshop described in subsection (1) if the data and analysis support the local government's comprehensive plan. Any adjustment of or deviation from the BEBR projections must be fully described, and the original BEBR data must be presented along with the adjusted data.
 - b. Agricultural demand projections used for determining the needs of agricultural self-suppliers must be based upon the best available data. In determining the best available data for agricultural self-supplied water needs, the district shall consider the data indicative of future water supply demands provided by the Department of Agriculture and Consumer Services pursuant to s. 570.93 and agricultural demand projection data and analysis submitted by a local government pursuant to the public workshop described in subsection (1), if the data and analysis support the local government's comprehensive plan. Any adjustment of or deviation from the data provided by the Department of Agriculture and Consumer Services must be fully described, and the original data must be presented along with the adjusted data.
2. A list of water supply development project options, including traditional and alternative water supply project options that are technically and financially feasible, from which local government, government-owned and privately owned utilities, regional water supply authorities, multijurisdictional water supply entities, self-suppliers, and others may choose for water supply development. In addition to projects listed by the district, such users may propose specific projects for inclusion in the list of alternative water supply projects. If such users propose a project to be listed as an alternative water supply project, the district shall determine whether it meets the goals of the plan, and, if so, it shall be included in the list. The total capacity of the projects included in the plan must exceed the needs identified in subparagraph 1. and take into account water conservation and other demand management measures, as well as water resources constraints, including adopted minimum flows and minimum water levels and water reservations. Where the district determines it is appropriate, the plan should specifically identify the need for multijurisdictional approaches to project options that, based on planning level analysis, are appropriate to supply the intended uses and that, based on such analysis, appear to be permissible and financially and technically feasible. The list of water supply development options must contain provisions that recognize that alternative water supply options for agricultural self-suppliers are limited.
 3. For each project option identified in subparagraph 2., the following must be provided:
 - a. An estimate of the amount of water to become available through the project.
 - b. The timeframe in which the project option should be implemented and the estimated planning-level costs for capital investment and operating and maintaining the project.
 - c. An analysis of funding needs and sources of possible funding options. For alternative water supply projects, the water management districts shall provide funding assistance pursuant to s. 373.707(8).

- d. Identification of the entity that should implement each project option and the current status of project implementation.

(b) A water resource development component that includes:

1. A listing of those water resource development projects that support water supply development for all existing and future reasonable-beneficial uses as described in paragraph (a) and for the natural systems as identified in the recovery or prevention strategies for adopted minimum flows and minimum water levels or water reservations.
2. For each water resource development project listed:
 - a. An estimate of the amount of water to become available through the project for all existing and future reasonable-beneficial uses as described in paragraph (a) and for the natural systems as identified in the recovery or prevention strategies for adopted minimum flows and minimum water levels or water reservations.
 - b. The timeframe in which the project option should be implemented and the estimated planning-level costs for capital investment and for operating and maintaining the project.
 - c. An analysis of funding needs and sources of possible funding options.
 - d. Identification of the entity that should implement each project option and the current status of project implementation.

(c) The recovery and prevention strategy described in s. 373.0421(2).

(d) A funding strategy for water resource development projects, which shall be reasonable and sufficient to pay the cost of constructing or implementing all of the listed projects.

(e) Consideration of how the project options addressed in paragraph (a) serve the public interest or save costs overall by preventing the loss of natural resources or avoiding greater future expenditures for water resource development or water supply development. However, unless adopted by rule, these considerations do not constitute final agency action.

(f) The technical data and information applicable to each planning region which are necessary to support the regional water supply plan.

(g) The minimum flows and minimum water levels established for water resources within each planning region.

(h) Reservations of water adopted by rule pursuant to s. 373.223(4) within each planning region.

(i) Identification of surface waters or aquifers for which minimum flows and minimum water levels are scheduled to be adopted.

(j) An analysis, developed in cooperation with the department, of areas or instances in which the variance provisions of s. 378.212(1)(g) or s. 378.404(9) may be used to create water supply development or water resource development projects.

(k) An assessment of how the regional water supply plan and the projects identified in the funding plans prepared pursuant to sub-subparagraphs (a)3.c. and (b)2.c. support the recovery or prevention strategies for implementation of adopted minimum flows and minimum water levels or water reservations, including minimum flows and minimum water levels for Outstanding Florida Springs adopted pursuant to s. 373.805; while ensuring that sufficient water will be available for all existing and future reasonable-beneficial uses and the natural systems identified herein; and that the adverse effects of competition for water supplies will be avoided.

373.709(3): The water supply development component of a regional water supply plan which deals with or affects public utilities and public water supply for those areas served by a regional water supply authority and its member governments shall be developed jointly by the authority and the applicable water management district. In areas not served by regional water supply authorities, or other multijurisdictional water supply entities, and where opportunities exist to meet water supply needs more efficiently through multijurisdictional projects identified pursuant to paragraph (2)(a), water management districts are directed to assist in developing multijurisdictional approaches to water supply project development jointly with affected water utilities, special districts, self-suppliers, and local governments.

373.709(4): The South Florida Water Management District shall include in its regional water supply plan water resource and water supply development projects that promote the elimination of wastewater ocean outfalls as provided in s. 403.086(10).

373.709(5): Governing board approval of a regional water supply plan shall not be subject to the rulemaking requirements of chapter 120. However, any portion of an approved regional water supply plan which affects the substantial interests of a party shall be subject to s. 120.569.

373.709(6): Annually and in conjunction with the reporting requirements of s. 373.536(6)(a)4., the department shall submit to the Governor and the Legislature a report on the status of regional water supply planning in each district. The report shall include:

(a) A compilation of the estimated costs and an analysis of the sufficiency of potential sources of funding from all sources for water resource development and water supply development projects as identified in the water management district regional water supply plans.

(b) The percentage and amount, by district, of district ad valorem tax revenues or other district funds made available to develop alternative water supplies.

(c) A description of each district's progress toward achieving its water resource development objectives, including the district's implementation of its 5-year water resource development work program.

(d) An assessment of the specific progress being made to implement each alternative water supply project option chosen by the entities and identified for implementation in the plan.

(e) An overall assessment of the progress being made to develop water supply in each district, including, but not limited to, an explanation of how each project in the 5-year water resource development work program developed pursuant to s. 373.536(6)(a)4., either alternative or traditional, will produce, contribute to, or account for additional water being made available for consumptive uses, minimum flows and minimum water levels, or water reservations; an estimate of the quantity of water to be produced by each project; and an assessment of the contribution of the district's regional water supply plan in providing sufficient water to meet the needs of existing and future reasonable-beneficial uses for a 1-in-10-year drought event, as well as the needs of the natural systems.

373.709(7): Nothing contained in the water supply development component of a regional water supply plan shall be construed to require local governments, government-owned or privately owned water utilities, special districts, self-suppliers, regional water supply authorities, multijurisdictional water supply entities, or other water suppliers to select a water

supply development project identified in the component merely because it is identified in the plan. Except as provided in s. 373.223(3) and (5), the plan may not be used in the review of permits under part II of this chapter unless the plan or an applicable portion thereof has been adopted by rule. However, this subsection does not prohibit a water management district from employing the data or other information used to establish the plan in reviewing permits under part II, nor does it limit the authority of the department or governing board under part II.

373.709(8): Where the water supply component of a water supply planning region shows the need for one or more alternative water supply projects, the district shall notify the affected local governments and make every reasonable effort to educate and involve local public officials in working toward solutions in conjunction with the districts and, where appropriate, other local and regional water supply entities.

(a) Within 6 months following approval or amendment of its regional water supply plan, each water management district shall notify by certified mail each entity identified in sub-subparagraph (2)(a)3.d. of that portion of the plan relevant to the entity. Upon request of such an entity, the water management district shall appear before and present its findings and recommendations to the entity.

(b) Within 1 year after the notification by a water management district pursuant to paragraph (a), each entity identified in sub-subparagraph (2)(a)3.d. shall provide to the water management district written notification of the following: the alternative water supply projects or options identified in paragraph (2)(a) which it has developed or intends to develop, if any; an estimate of the quantity of water to be produced by each project; and the status of project implementation, including development of the financial plan, facilities master planning, permitting, and efforts in coordinating multijurisdictional projects, if applicable. The information provided in the notification shall be updated annually, and a progress report shall be provided by November 15 of each year to the water management district. If an entity does not intend to develop one or more of the alternative water supply project options identified in the regional water supply plan, the entity shall propose, within 1 year after notification by a water management district pursuant to paragraph (a), another alternative water supply project option sufficient to address the needs identified in paragraph (2)(a) within the entity's jurisdiction and shall provide an estimate of the quantity of water to be produced by the project and the status of project implementation as described in this paragraph. The entity may request that the water management district consider the other project for inclusion in the regional water supply plan

History.—ss. 1, 28, 49, 50, ch. 2010-205; s. 3, ch. 2013-177; s. 4, ch. 2013-229; s. 9, ch. 2014-150; s. 21, ch. 2016-1; s. 40, ch. 2018-110; s. 36, ch. 2020-150.

Appendix B **CITY OF SUNRISE PRIVATE POTABLE, AND PRIVATE
AND PUBLIC NON-POTABLE WATER USE PERMITS**



Appendix B - City of Sunrise Private Potable, and Private and Public Non-Potable Water Use Permits

PERMIT NO.	PROJECT NAME	PUMP CAPACITY(gpm)	WATER USE	SOURCE
06-05196-W	10400 N W 44TH ST	115	Irrigation	Biscayne Aquifer
06-07295-W	24 HOUR FITNESS	100	Irrigation	Biscayne Aquifer
06-06070-W	44TH STREET PASSIVE PARK	225	Irrigation	Biscayne Aquifer
06-06399-W	4747 NOB HILL	50	Irrigation	Biscayne Aquifer
06-02284-W	560 SAWGRASS WELL	35	Irrigation	Biscayne Aquifer
06-03338-W	7- ELEVEN SUNRISE	40	Irrigation	Biscayne Aquifer
06-02938-W	7-ELEVEN	75	Irrigation	Biscayne Aquifer
06-06595-W	A M L I SAWGRASS VILLAGE	60	Irrigation	Biscayne Aquifer
06-05128-W	ABC FINE WINE AND SPIRITS	50	Irrigation	Biscayne Aquifer
06-05785-W	ADVANCE AUTO PARTS	55	Irrigation	Biscayne Aquifer
06-06671-W	ADVANCED AUTO PARTS LANDSCAPE IRRIGATION WELL	55	Irrigation	Biscayne Aquifer
06-04625-W	AGING & DISABILITY RESOURCE CENTER OF BROWARD	50	Irrigation	Biscayne Aquifer
06-07022-W	AMERICAN EXPRESS SUNRISE CORPORATE CENTER	55	Industrial	Biscayne Aquifer
06-07022-W	AMERICAN EXPRESS SUNRISE CORPORATE CENTER	55	Industrial	Biscayne Aquifer
06-04371-W	ARAGON	75	Irrigation	Biscayne Aquifer
06-06162-W	ARC OF BROWARD	95	Irrigation	Biscayne Aquifer
06-02387-W	AUTOMATIC ENTRANCES INC	55	Irrigation	Biscayne Aquifer
06-06998-W	AUTOZONE NO 4851	75	Irrigation	Surficial Aquifer System
06-05123-W	BENNETT, SAWGRASS, PARK LAKES ELEM/CHARLES DREW FAMILY RESOU	120	Irrigation	Biscayne Aquifer
06-04557-W	BROWARD LAKES BUSINESS PARK	95	Irrigation	Surficial Aquifer System
06-03404-W	CAPITOL HILL DEVELOPMENT	120	Irrigation	Biscayne Aquifer
06-06361-W	CHASE BANK - OAKLAND PARK & NOB HILL	35	Irrigation	Biscayne Aquifer
06-04867-W	CHICK-FIL-A @ SAWGRASS SQUARE SHOPPING CENTER	45	Irrigation	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1500	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1500	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1050	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1400	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2100	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	2600	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Monitoring	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	1400	Public Water Supply	Floridan Aquifer System
06-00120-W	CITY OF SUNRISE	0	Public Water Supply	Floridan Aquifer System
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Floridan Aquifer System
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Floridan Aquifer System
06-00120-W	CITY OF SUNRISE	1400	Monitoring	Floridan Aquifer System
06-04318-W	CITY PARK	100	Irrigation	Biscayne Aquifer
06-04318-W	CITY PARK	100	Irrigation	Biscayne Aquifer
06-04318-W	CITY PARK	100	Irrigation	Biscayne Aquifer
06-05193-W	CITY PARKS AND FACILITIES TENNIS CNTR ROARKE HALL	210	Irrigation	Biscayne Aquifer
06-02601-W	CLASS A PHASE III	85	Irrigation	Biscayne Aquifer
06-02334-W	COASTAL GASOLINE STATION	55	Irrigation	Biscayne Aquifer
06-01714-W	CONSERVATION SUBSTATION	50	Irrigation	Biscayne Aquifer
06-02835-W	COURTYARD DISTRIBUTION CENTER III	35	Irrigation	Biscayne Aquifer
06-04443-W	COURTYARD OFFICE PLAZA	35	Irrigation	Biscayne Aquifer

Appendix B - City of Sunrise Private Potable, and Private and Public Non-Potable Water Use Permits

PERMIT NO.	PROJECT NAME	PUMP CAPACITY(gpm)	WATER USE	SOURCE
06-03537-W	COWCAT ENTERPRISES INC	90	Irrigation	Biscayne Aquifer
06-03267-W	DAUER AUTO STORAGE WAREHOUSE	45	Irrigation	Biscayne Aquifer
06-02736-W	DON OLSEN TIRE AND AUTO	84	Irrigation	Biscayne Aquifer
06-03723-W	ECKERDS COMMERCIAL BOULEVARD AND NOB HILL ROAD	150	Irrigation	Biscayne Aquifer
06-05122-W	EDGEWOOD, LLOYD ESTATES, WELLEBY ELEM	200	Irrigation	Biscayne Aquifer
06-05538-W	ELEMENTARY SCHOOL A	230	Irrigation	Biscayne Aquifer
06-03679-W	EXXON CONVENIENCE CENTER	60	Irrigation	Biscayne Aquifer
06-03085-W	F & R SUNRISE LTD	100	Irrigation	Biscayne Aquifer
06-06762-W	FIRST COAST ENERGY IRRIGATION WELL	40	Irrigation	Biscayne Aquifer
06-03498-W	FLORIDA POWER AND LIGHT WELLEBY SUBSTATION	25	Irrigation	Biscayne Aquifer
06-07081-W	FRANKLIN ACADEMY - DISCOVERY SCHOOLS SUNRISE	110	Irrigation	Biscayne Aquifer
06-07113-W	GENESIS HOLDINGS OF SUNRISE	70	Irrigation	Biscayne Aquifer
06-07039-W	H B O LATIN AMERICA GROUP DATA CENTER	45	Air Conditioning	Biscayne Aquifer
06-03162-W	HBO LATIN AMERICA PRODUCTION SERVICES	10	Air Conditioning	Biscayne Aquifer
06-03084-W	HEALTH SOUTH	70	Irrigation	Biscayne Aquifer
06-05402-W	HIATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD)	100	Irrigation	Biscayne Aquifer
06-05402-W	HIATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD)	100	Irrigation	Biscayne Aquifer
06-05402-W	HIATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD)	100	Irrigation	Biscayne Aquifer
06-06935-W	HOPCO	50	Irrigation	Biscayne Aquifer
06-05279-W	INDIAN TRACE PARCEL 2 B	75	Irrigation	Biscayne Aquifer
06-06578-W	JAFCO CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES	50	Irrigation	Biscayne Aquifer
06-02721-W	KENTUCKY FRIED CHICKEN	55	Irrigation	Biscayne Aquifer
06-04862-W	LAS BRISAS	70	Irrigation	Surficial Aquifer System
06-02788-W	LA-Z-BOY SHOWROOM	55	Irrigation	Biscayne Aquifer
06-02954-W	LONGSTAR TEXACO	40	Irrigation	Biscayne Aquifer
06-06500-W	LUSH PROPERTIES	60	Irrigation	Surficial Aquifer System
06-03677-W	MCDONALD'S RESTAURANT AT PUBLIX AND SUNRISE WEST	27	Irrigation	Surficial Aquifer System
06-06902-W	METROPICA	80	Irrigation	Biscayne Aquifer
06-04716-W	MIRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO	150	Irrigation	Biscayne Aquifer
06-02515-W	MORSE	75	Irrigation	Surficial Aquifer System
06-04655-W	MR CAR WASH	55	Irrigation	Biscayne Aquifer
06-02547-W	NEIGHBORHOOD KIDS OF WELLEBY	50	Irrigation	Biscayne Aquifer
06-03943-W	NEW RIVER CENTRE	75	Irrigation	Biscayne Aquifer
06-02889-W	NEXTEL 2676A - WEST SUNRISE	60	Irrigation	Biscayne Aquifer
06-06158-W	NOB HILL BUSINESS PLAZA	50	Irrigation	Surficial Aquifer System
06-02378-W	OAK NOB CORNER	100	Irrigation	Biscayne Aquifer
06-06135-W	OAKLAND PARK BLVD. PASSIVE PARK	200	Irrigation	Biscayne Aquifer
06-06416-W	OAKLAND PARK MARATHON	50	Irrigation	Biscayne Aquifer
06-03150-W	OAKLAND TOWN CENTER 7/ELEVEN	50	Irrigation	Surficial Aquifer System
06-06418-W	P N C BANK	40	Irrigation	Biscayne Aquifer
06-03575-W	PARK TERRACES	125	Irrigation	Surficial Aquifer System
06-03575-W	PARK TERRACES	125	Irrigation	Surficial Aquifer System
06-02702-W	PEDIATRIX	85	Irrigation	Biscayne Aquifer
06-07508-W	PINE ISLAND AND 50TH ATHLETIC COMPLEX	300	Irrigation	Biscayne Aquifer
06-01296-W	PIPER HIGH	60	Air Conditioning	Surficial Aquifer System
06-01296-W	PIPER HIGH	150	Irrigation	Surficial Aquifer System
06-02781-W	POLLO TROPICAL RESTAURANT	55	Irrigation	Biscayne Aquifer
06-05102-W	RACETRAC-SUNRISE	60	Irrigation	Biscayne Aquifer
06-05432-W	REGIONS BANK- N W CORNER OF N W 136 AVENUE AND N W 12 STREET	35	Irrigation	Biscayne Aquifer
06-02622-W	SANDPIPER COVE	40	Irrigation	Biscayne Aquifer
06-02622-W	SANDPIPER COVE	40	Irrigation	Biscayne Aquifer
06-02622-W	SANDPIPER COVE	40	Irrigation	Biscayne Aquifer
06-04703-W	SANDPIPER, BANYAN, CHALLENGER, PINWOOD, MORROW ELEM/MILLENN	200	Irrigation	Biscayne Aquifer
06-02774-W	SAWGRASS BEND PROFESSIONAL CENTER	75	Irrigation	Biscayne Aquifer
06-02947-W	SAWGRASS INTERNATIONAL BUSINESS CENTER	100	Irrigation	Surficial Aquifer System
06-02125-W	SAWGRASS MEDICAL AND RETAIL CENTER	55	Irrigation	Biscayne Aquifer
06-03781-W	SHAMROCK OF SUNRISE LLC	55	Irrigation	Biscayne Aquifer
06-05136-W	SHANNON LAKE ESTATES	225	Irrigation	Biscayne Aquifer
06-07024-W	SPARKLING IMAGE CAR WASH (FKA SIMONIZ CAR WASH-SUNRISE BLVD)	60	Industrial	Surficial Aquifer System
06-07024-W	SPARKLING IMAGE CAR WASH (FKA SIMONIZ CAR WASH-SUNRISE BLVD)	60	Irrigation	Surficial Aquifer System
06-05890-W	SPECTRUM WEST PROPERTIES	90	Irrigation	Biscayne Aquifer
06-04800-W	SPRING TREE	60	Irrigation	Biscayne Aquifer
06-07741-W	SPRINGTREE CENTER	60	Irrigation	Biscayne Aquifer
06-07741-W	SPRINGTREE CENTER	60	Irrigation	Biscayne Aquifer
06-01574-W	SPRINGTREE SUBSTATION	20	Irrigation	Biscayne Aquifer
06-05414-W	STARBUCKS AT WESTGATE SQUARE	70	Irrigation	Biscayne Aquifer
06-04853-W	STRIKERS FAMILY SPORTSCENTER	40	Irrigation	Surficial Aquifer System
06-04300-W	SUNRISE AQUATIC CIVIC CENTER	250	PH	Surficial Aquifer System
06-04300-W	SUNRISE AQUATIC CIVIC CENTER	100	PH	Surficial Aquifer System
06-04300-W	SUNRISE AQUATIC CIVIC CENTER	0	PHR	Surficial Aquifer System
06-03636-W	SUNRISE ENTERPRISE CENTER - PHASE I	225	Irrigation	Biscayne Aquifer
06-03636-W	SUNRISE ENTERPRISE CENTER - PHASE I	225	Irrigation	Biscayne Aquifer
06-01704-W	SUNRISE FIRE STATION NO 92	110	Irrigation	Biscayne Aquifer
06-04684-W	SUNRISE HARLEY-DAVIDSON	85	Irrigation	Surficial Aquifer System
06-03924-W	SUNRISE LAND WEST PARCEL	200	IRL	Surficial Aquifer System

Appendix B - City of Sunrise Private Potable, and Private and Public Non-Potable Water Use Permits

PERMIT NO.	PROJECT NAME	PUMP CAPACITY(gpm)	WATER USE	SOURCE
06-06192-W	SUNRISE PARK INVESTORS	100	Irrigation	Surficial Aquifer System
06-06517-W	SUNRISE SHOPPES - 2700-2834 N UNIVERSITY DRIVE	60	Irrigation	Biscayne Aquifer
06-06517-W	SUNRISE SHOPPES - 2700-2834 N UNIVERSITY DRIVE	60	Irrigation	Biscayne Aquifer
06-06517-W	SUNRISE SHOPPES - 2700-2834 N UNIVERSITY DRIVE	60	Irrigation	Biscayne Aquifer
06-07593-W	T MOBILE EVERGLADES M S O	70	Irrigation	Biscayne Aquifer
06-02951-W	TGI FRIDAYS	38	Irrigation	Biscayne Aquifer
06-05951-W	THE FEDERATION HOUSING INC	50	Irrigation	Biscayne Aquifer
06-02354-W	THE SAWGRASS PRESERVE	35	Irrigation	Surficial Aquifer System
06-02354-W	THE SAWGRASS PRESERVE	35	Irrigation	Surficial Aquifer System
06-02354-W	THE SAWGRASS PRESERVE	35	Irrigation	Surficial Aquifer System
06-02278-W	TIRES PLUS	85	Irrigation	Surficial Aquifer System
06-05523-W	TRANSCAPITAL BANK	60	Irrigation	Surficial Aquifer System
06-03497-W	TRICON GOLBAL RESTAURANT	50	Irrigation	Biscayne Aquifer
06-05160-W	US ONCOLOGY	100	Irrigation	Biscayne Aquifer
06-05510-W	V A OUTPATIENT FACILITY SUNRISE	30	Public Water Supply	Biscayne Aquifer
06-07579-W	VETERANS MEMORIAL PARK	110	Irrigation	Biscayne Aquifer
06-05130-W	VILLAGE/ ROYAL PALM ELEM/ENDEAVOUR/LAUDERHILL SCHOOLS	150	Irrigation	Biscayne Aquifer
06-04412-W	VISTA MERCADO	60	Irrigation	Biscayne Aquifer
06-06887-W	WALGREENS STORE NO 4694	40	Irrigation	Biscayne Aquifer
06-02385-W	WATERFORD CROSSING	120	Irrigation	Biscayne Aquifer
06-02385-W	WATERFORD CROSSING	50	Irrigation	Biscayne Aquifer
06-06184-W	WELLEBY SQUARE	135	Irrigation	Biscayne Aquifer
06-03373-W	WENDY'S AT SAWGRASS GATEWAY CENTER	55	Irrigation	Biscayne Aquifer
06-02360-W	WENDY'S RESTAURANT	55	Irrigation	Biscayne Aquifer
06-01514-W	WESTPINE MIDDLE SCHOOL MIDDLE SCHOOL DD	150	Irrigation	Biscayne Aquifer
06-01344-W	WINDSOR INVESTMENTS (SUNRISE GOLF & COUNTRY CLUB)LLC	1000	Irrigation	Biscayne Aquifer
06-01344-W	WINDSOR INVESTMENTS (SUNRISE GOLF & COUNTRY CLUB)LLC	1000	Irrigation	Biscayne Aquifer
06-01344-W	WINDSOR INVESTMENTS (SUNRISE GOLF & COUNTRY CLUB)LLC	0	Irrigation	Biscayne Aquifer
06-01344-W	WINDSOR INVESTMENTS (SUNRISE GOLF & COUNTRY CLUB)LLC	1000	Irrigation	Biscayne Aquifer

Appendix C **WATER SUPPLY SYSTEM INTERCONNECTIONS**



APPENDIX C - CITY OF SUNRISE WATER SUPPLY SYSTEM INTERCONNECTIONS

Interconnect with	Location Description and Map ID	Existing/ Proposed	Size (inches)	Capacity (gpm)	Metered (Yes/No)	Status
City of Plantation 0600103-W	NW 28th Court and 118th Avenue	Existing	6	264	No	Inaccessible
	NW 21st Ct & 124th Ave	Existing	8	470	Yes	Inaccessible
	Commodore Dr, at North New River Canal	Existing	12	1057	Yes	Working
	Flamingo Rd & NW 8th St	Existing	10	734	Yes	Working
Town of Davie 06-00134-W	University Dr. & SW 30th St	Existing	12		Yes	Working
	Hiatus Rd North of 26th St	Existing	8	470	Yes	Working
City of Pembroke Pines 06-00135-W	SW 166th Ave & 67th Pl	Existing	8	595	No	Working
	Dykes Rd & Bellavista Ave	Existing	8	734	No	Working
Cooper City 06-00365-W	5100 SW 36th Ave	Existing	12	470	Yes	Working

Source: City of Sunrise, 2025

Appendix D **SUNRISE UTILITY SERVICE AREA POPULATION
PROJECTIONS BY TAZs**



TAZID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
558	100%	2,044	2,023	2,009	1,996	1,989	Davie	Existing
559	100%	1,309	1,302	1,285	1,270	1,258	Davie	Existing
560	100%	6,467	6,394	6,335	6,298	6,270	Davie	Existing
561	100%	4,576	4,550	4,521	4,482	4,462	Davie	Existing
562	100%	3,358	3,326	3,298	3,278	3,260	Davie	Existing
563	100%	1,165	1,188	1,179	1,176	1,167	Davie	Existing
564	25%	489	487	485	483	480	Davie	Existing
565	100%	4,106	4,082	4,055	4,036	4,015	Davie	Existing
566	100%	2,295	2,268	2,259	2,246	2,233	Davie	Existing
569	87%	2,207	2,189	2,172	2,160	2,149	Davie	Existing
570	80%	592	592	587	589	588	Davie	Existing
572	100%	1,368	1,358	1,353	1,347	1,338	Davie	Existing
573	100%	2,129	2,119	2,110	2,098	2,088	Davie	Existing
574	71%	4,226	4,199	4,184	4,161	4,150	Davie	Existing
575	1%	35	35	35	35	34	Davie	Existing
590	90%	476	473	473	866	881	Davie	Existing
603	60%	1,148	1,139	1,135	1,128	1,123	Davie	Existing
604	72%	1,144	1,134	1,126	1,117	1,114	Davie	Existing
610	94%	905	900	902	897	894	Davie	Existing
611	35%	264	263	261	260	260	Davie	Existing
811	55%	0	0	0	0	0	Davie	Existing
889	0%	0	0	0	0	0	Davie	Existing
891	16%	0	0	0	0	0	Davie	Existing
591	100%	2,125	2,149	2,140	2,128	2,119	Davie	Existing
592	100%	1,315	1,324	1,315	1,310	1,304	Davie	Existing
593	100%	2,231	2,217	2,215	2,202	2,197	Davie	Existing
594	100%	1,638	1,621	1,620	1,614	1,605	Davie	Existing
595	100%	459	456	458	454	454	Davie	Existing
596	100%	1,387	1,378	1,373	1,367	1,360	Davie	Existing
602	100%	0	0	0	0	0	Davie	Existing
609	100%	1,120	1,113	1,104	1,101	1,095	Davie	Existing
810	100%	702	697	702	695	695	Davie	Existing
924	100%	839	831	823	818	816	Davie	Existing
960	100%	6,380	6,336	6,286	6,247	6,210	Davie	Existing
SUBTOTAL		58,500	58,143	57,799	57,859	57,608	Davie	Existing

TAZID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
461	38%	878	873	868	859	854	Sunrise	Existing
462	100%	0	0	0	0	0	Sunrise	Existing
468	100%	427	428	472	496	513	Sunrise	Existing
469	100%	7,404	7,348	7,734	7,960	8,162	Sunrise	Existing
471	100%	6,289	6,238	6,192	6,137	6,105	Sunrise	Existing
472	100%	9,249	10,429	10,669	10,617	10,561	Sunrise	Existing
473	100%	5,812	5,763	5,722	5,668	5,630	Sunrise	Existing
474	100%	2,044	3,061	3,304	3,460	3,556	Sunrise	Existing
475	100%	1,043	1,035	1,030	1,020	1,014	Sunrise	Existing
476	100%	5,424	5,461	5,432	5,388	5,367	Sunrise	Existing
478	100%	3,029	3,735	3,937	4,057	4,897	Sunrise	Existing
479	100%	1,479	1,454	2,187	2,661	3,211	Sunrise	Existing
480	100%	0	0	0	0	0	Sunrise	Existing
481	100%	1,781	1,778	1,749	1,730	2,367	Sunrise	Existing
482	100%	5,538	5,488	5,445	5,407	5,373	Sunrise	Existing
484	9%	499	497	493	489	487	Sunrise	Existing
487	100%	5,212	5,419	5,375	5,349	5,324	Sunrise	Existing
488	100%	5,510	5,437	5,384	5,362	5,327	Sunrise	Existing
489	100%	2,092	2,087	2,079	2,069	2,060	Sunrise	Existing
490	100%	884	882	876	870	867	Sunrise	Existing
491	100%	1,130	1,123	1,117	1,112	1,106	Sunrise	Existing
492	100%	758	752	752	746	750	Sunrise	Existing
493	100%	3,928	4,501	5,110	5,506	5,774	Sunrise	Existing
494	100%	6,480	6,427	6,376	6,326	6,292	Sunrise	Existing
495	100%	2,693	2,676	2,660	2,641	2,627	Sunrise	Existing
496	100%	5,750	5,702	5,666	5,613	5,583	Sunrise	Existing
574	29%	1,701	1,691	1,685	1,676	1,671	Sunrise	Existing
575	94%	3,452	3,431	3,407	3,387	3,371	Sunrise	Existing
576	0%	0	0	0	0	0	Sunrise	Existing
896	100%	3,580	3,560	3,536	3,508	3,494	Sunrise	Existing
898	100%	1,506	1,502	1,497	1,485	1,476	Sunrise	Existing
937	100%	3,326	3,310	3,277	3,256	3,230	Sunrise	Existing
951	100%	2,026	2,013	2,002	1,988	1,979	Sunrise	Existing
952	100%	4,494	4,471	4,434	4,396	4,372	Sunrise	Existing
959	100%	0	0	0	0	0	Sunrise	Existing
961	100%	1,696	1,683	1,676	1,656	1,647	Sunrise	Existing
SUBTOTAL		107,115	110,254	112,143	112,895	115,047	Sunrise	Existing
601	20%	356	334	354	351	355	SW Ranches	Existing
603	20%	383	380	378	376	374	SW Ranches	Existing
604	28%	449	446	443	439	437	SW Ranches	Existing
605	75%	306	290	308	305	314	SW Ranches	Existing
608	18%	70	66	69	69	76	SW Ranches	Existing
610	6%	58	57	58	57	57	SW Ranches	Existing
611	35%	264	263	261	260	260	SW Ranches	Existing
809	0%	0	0	0	0	0	SW Ranches	Existing
811	45%	0	0	0	0	0	SW Ranches	Existing
812	0%	0	0	0	0	0	SW Ranches	Existing
911	63%	260	239	258	256	282	SW Ranches	Existing
SUBTOTAL		2,145	2,075	2,128	2,112	2,156	SW Ranches	Existing

TAZID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
575	5%	202	200	199	198	197	Weston	Existing
576	100%	3,292	3,257	3,225	3,205	3,184	Weston	Existing
577	100%	9,161	9,215	9,114	9,039	8,970	Weston	Existing
578	100%	4,584	4,564	4,549	4,530	4,515	Weston	Existing
579	100%	6,575	6,536	6,504	6,460	6,441	Weston	Existing
580	100%	10,601	10,544	10,493	10,435	10,399	Weston	Existing
583	100%	3,796	3,780	3,765	3,748	3,732	Weston	Existing
584	100%	4,209	4,173	4,149	4,114	4,087	Weston	Existing
585	100%	2,171	2,159	2,149	2,138	2,129	Weston	Existing
586	100%	1,265	1,254	1,248	1,240	1,234	Weston	Existing
587	100%	675	722	716	708	709	Weston	Existing
588	100%	1,753	1,740	1,723	1,712	1,704	Weston	Existing
589	100%	2,909	2,885	2,869	2,841	2,830	Weston	Existing
590	0%	0	0	0	0	0	Weston	Existing
597	100%	9,857	9,795	9,728	9,669	9,624	Weston	Existing
888	100%	6,454	6,414	6,376	6,335	6,306	Weston	Existing
889	100%	0	0	0	0	0	Weston	Existing
890	100%	937	946	940	931	931	Weston	Existing
891	84%	0	0	0	0	0	Weston	Existing
962	100%	205	205	205	205	205	Weston	Existing
SUBTOTAL		68,646	68,389	67,952	67,508	67,197	Weston	Existing
Grand TOTAL	(Rounded)	236,400	238,900	240,000	240,400	242,000	-	Existing

TAZID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
809	100%					246	SW Ranches	Future
812	1%					8	SW Ranches	Future
599	75%					2319	SW Ranches	Future
600	100%					1236	SW Ranches	Future
605	80%					334	SW Ranches	Future
606	40%					532	SW Ranches	Future
607	80%					215	SW Ranches	Future
808	100%					184	SW Ranches	Future
813	100%					277	SW Ranches	Future
950	20%					84	SW Ranches	Future
964	75%					533	SW Ranches	Future
SUBTOTAL						6000	SW Ranches	Future
Grand TOTAL	(Rounded)	236,400	238,900	240,000	240,400	248,000	-	-

Appendix E **INTERGOVERNMENTAL MEETING MINUTES**





Final Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2025

Intergovernmental coordination between City of Sunrise Utilities Department and Town of Davie January 21, 2025

Objective:

The City of Sunrise (City), Town of Davie Planning Department (Town) and Stantec met for the City of Sunrise 10 Year Water Supply Facilities Work Plan – 2025 Update Intergovernmental Coordination on January 21, 2025.

Agenda items, discussions and action items from the meeting are provided below.

Item No.	Agenda Items	Action Items
1.	Stantec described the purpose of the meeting and provided an overview of the Project. Meeting was held to review and discuss the Population Projections for the Town within City's service area.	
2.	Point of contacts are listed below for further communications. Town of Davie (Town) – David Quigley City of Sunrise – Wilhelmina Montero, P.E. Sangeeta Dhulashia, P.E. Stantec – Zuhail Ozturk, Ph.D., P.E. Bharani Rajasekaran, EIT	
3.	Service Area City's existing and future utility service area boundaries were reviewed. The City of Sunrise Utility Service Area boundaries have not changed since 2019, and they will be used in the 2024 WSP report.	
4.	Population Projections for Town of Davie were reviewed and discussed. - Stantec used Broward County PFAM (BCPFAM) 2024 population data to calculate the population projections for the Town. - Town stated that he sent feedback to Broward County on 2023 PFAM since the population estimates appeared to be high, but the County did not alter anything in response to the comments provided.	1. Town will forward the comments sent to Broward County on PFAM 2023 population projections to Stantec. <u>Response</u> – Town sent comments on January 22, 2025. 2. Stantec will revisit the population projection calculations.



January 21, 2025

City of Sunrise 10 Year Water Supply Facilities Work Plan - 2025 Update

Page 2 of 2

Item No.	Agenda Items	Action Items
	- Town mentioned that there are no new proposed DRIs. - Town indicated that the population numbers shown for vacant land TAZ's seemed incorrect and inquired whether Broward County had finalized 2024 PFAM update. Both City and Stantec confirmed that the Final BCPFAM 2024 update was released and was used for the population projections. - Stantec asked for status of the new development/redevelopment projects listed in WSP 2020. Town stated that he would review the list and provide the status via e-mail correspondence.	<u>Response</u> - Population projection calculations for each municipality were revisited. 3. Stantec will send the new development project list table from WSP 2020 to Town for review. <u>Response</u> – Stantec sent the list of development projects to Town on January 22, 2025. Town sent comments on January 22, 2025. Final follow up communication was held between Stantec and Town on February 10, 2025. There are no new development/redevelopment projects planned for this planning cycle.
5.	City stated that any reuse and conservation related outreach activities coordinated for Town's residents will be included in the WSP update. Town said that he would check to confirm such activities.	1. Town was to verify if reuse and conservation efforts exist.

Attachments:

- Meeting Agenda
- Sign-In Sheet

*These Meeting Minutes represent Stantec's understanding of the meeting and are considered to be accurate and complete. If you have any comments and/or corrections, please email them to Zuhail Ozturk at Zuhail.Ozturk@stantec.com by **July 7th, 2025**. Any corrections received will be incorporated into the Meeting Minutes and they will be re-issued. If no comments and/or corrections are received by said date, these notes will be considered accurate and complete.*



Meeting Agenda

Stantec
800 Fairway Drive
Suite 195
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(O) 954.851.1530 | (D) 954.647.7880

Water Supply Facilities Work Plan Update 2024

SUBJECT: Intergovernmental Coordination between City of Sunrise Utilities Department and Town of Davie

DATE & TIME of MEETING: January 21, 2025 at 10:30 AM

Location: Town of Davie - Planning and Zoning Conf. Room; 8800 SW 36th Street Building C

Item No.	Agenda Items
1.	Project Overview - Water Supply Facilities Work Plan (WSFP) overview
2.	Communications A. Point of contacts listed below for further communications. • COS – Wilhelmina Montero Sangeeta Dhulashia • Stantec – Zuhel Ozturk • Town of Davie – David Quigley
3.	Service Area
4.	Population Projections A. Population Projections (without adjustment factor) – usage of Traffic Analysis Zone (TAZ) thru 2045 B. No individual land use changes or DRIs impacting future population projections besides those shown in Table 3. C. Status of reported new development and redevelopment projects, issued in WSP 2020. a. The Town of Davie does not expect 'The Commons' to be developed at this time. b. Which year should the new development/ redevelopment projects to be added to (2040 or 2045)?
5.	Additional Items to Check: • City of Sunrise serves 60% of the area of Town of Davie. • There are 5 individual users in Town of Davie on domestic self-supply system. • Are there any changes to the Agreement with the City of Sunrise?
6.	List of Data Needs • Conservation and Reuse Efforts
7.	Intergovernmental Coordination



Meeting Agenda

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Attachments:

- 1) Existing and Future Utility Service Area Map
- 2) Town of Davie Projected Population - within City of Sunrise Utility Service Area
- 3) Town of Davie Projected Population by TAZs - within City of Sunrise Utility Service Area
- 4) Town of Davie New Development and Redevelopment Projects- within City of Sunrise Utility Service Area (from WSP 2020 for follow up and updates)

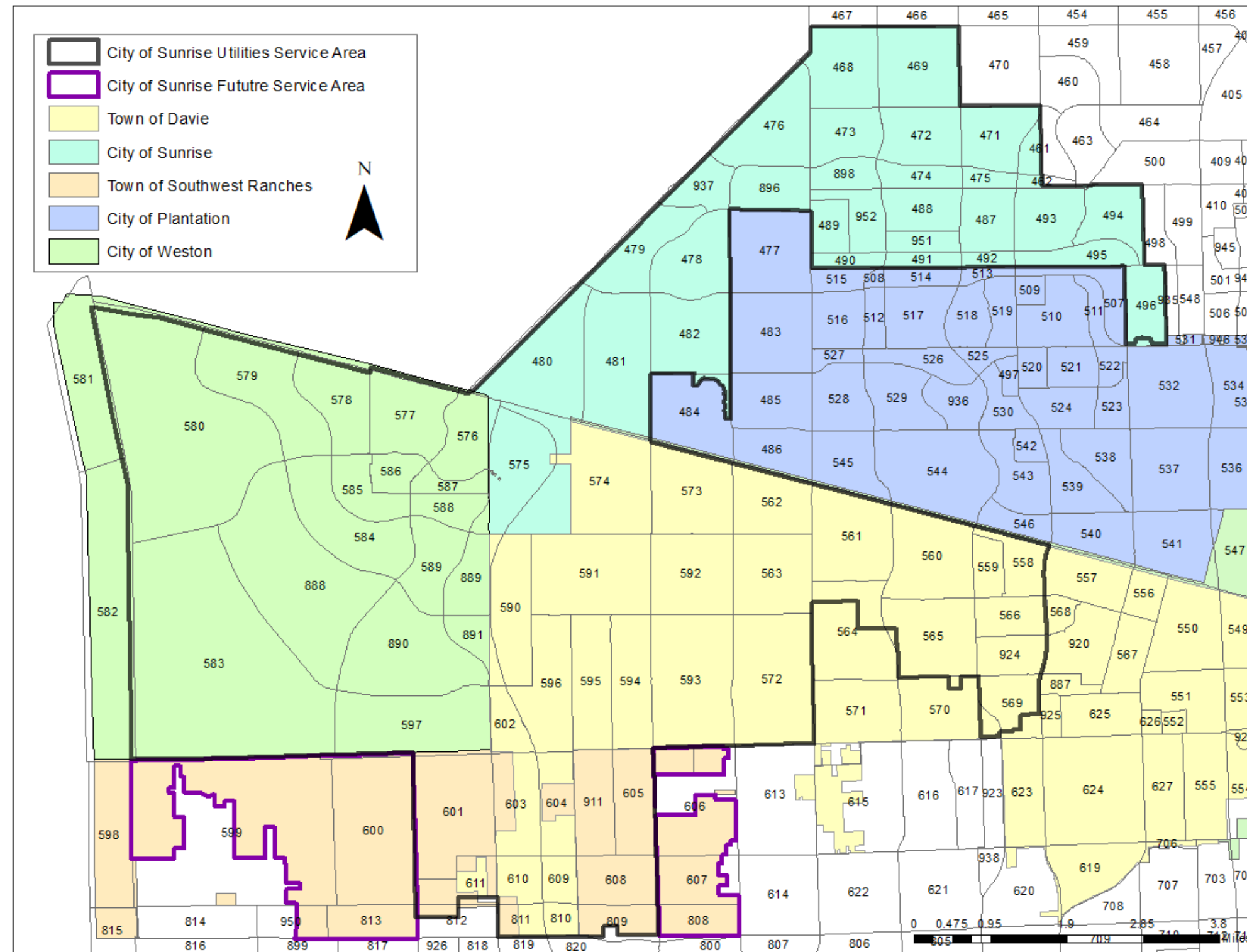


Figure 1 - City of Sunrise Existing and Future Service Area (from WSP 2020)



Meeting Agenda

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Table 1 – Town of Davie Projected Population - within City of Sunrise Service Area (PFAM 2024)

City	2025	2030	2035	2040	2045	Service Area
Town of Davie	52,100	51,800	51,500	51,600	51,400	Existing

Table 2 – Town of Davie Projected Population by TAZs – within City of Sunrise Utility Service Area (PFAM 2024)

TAZ ID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
558	100%	2044	2023	2009	1996	1989	Davie	Existing
559	100%	1309	1302	1285	1270	1258	Davie	Existing
560	100%	6467	6394	6335	6298	6270	Davie	Existing
561	100%	4576	4550	4521	4482	4462	Davie	Existing
562	100%	3358	3326	3298	3278	3260	Davie	Existing
563	100%	1165	1188	1179	1176	1167	Davie	Existing
564	25%	489	487	485	483	480	Davie	Existing
565	100%	4106	4082	4055	4036	4015	Davie	Existing
566	100%	2295	2268	2259	2246	2233	Davie	Existing
569	87%	2207	2189	2172	2160	2149	Davie	Existing
570	80%	592	592	587	589	588	Davie	Existing
572	100%	1368	1358	1353	1347	1338	Davie	Existing
573	100%	2129	2119	2110	2098	2088	Davie	Existing
574	71%	4226	4199	4184	4161	4150	Davie	Existing
575	1%	35	35	35	35	34	Davie	Existing
590	90%	476	473	473	866	881	Davie	Existing
603	60%	1148	1139	1135	1128	1123	Davie	Existing
604	72%	1144	1134	1126	1117	1114	Davie	Existing
610	94%	905	900	902	897	894	Davie	Existing
611	35%	264	263	261	260	260	Davie	Existing
811	55%	0	0	0	0	0	Davie	Existing
889	0%	0	0	0	0	0	Davie	Existing
891	16%	0	0	0	0	0	Davie	Existing
591	100%	2125	2149	2140	2128	2119	Davie	Existing
592	100%	1315	1324	1315	1310	1304	Davie	Existing
593	100%	2231	2217	2215	2202	2197	Davie	Existing
594	100%	1638	1621	1620	1614	1605	Davie	Existing
595	100%	459	456	458	454	454	Davie	Existing
596	100%	1387	1378	1373	1367	1360	Davie	Existing
602	100%	0	0	0	0	0	Davie	Existing
609	100%	1120	1113	1104	1101	1095	Davie	Existing



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TAZ ID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
810	100%	702	697	702	695	695	Davie	Existing
924	100%	839	831	823	818	816	Davie	Existing
SUBTOTAL		52,120	51,807	51,513	51,612	51,398	Davie	Existing

Table 3 – Town of Davie New Development and Redevelopment Projects – within City of Sunrise Utility Service Area (**from WSP 2020**)

TAZ_ID	No. of new developments in the TAZ	Project Name	Population per TAZ using Billed Water PCUR of 92.6	Municipality
561	3	1.595 Corporate Park of Commerce 2. Caseyco 3. Sierra Ranch 15600 gpd	308	Davie
562	1	1. Fieldstone Shops of Davie, fka Tuscan Villas	29	Davie
563	4	1. Miele-Simonson Estates 2. Flamingo Ranch Estates 3. Han-Mi Baptist Church 4. Kingdom Halls of Davie	58	Davie
564	2	1. Westridge II 2. North Star Estates	30	Davie
566	1	1. Commercial & Restaurant Development F	114	Davie
569	1	1. Pine Island Office Centre	27	Davie
572	1	1. Artis Senior Living 15120 gpd	163	Davie
573	2	1. Casuarinas 2. ADDILYN 4,800 GPD	91	Davie
574	1	Fire Station# 86 at Shenandoah- Town of Davie	8	Davie
591	3	1. Vista Lakes Lot 9 2. Silver Springs Ranches, lot 1 3. Live Oak Estates - Septic Tanks (3 homes)	20	Davie
592	1	1. Leto Estates #4	20	Davie
593	5	1. Stone Brook Estates 2. Grand Oaks Estates, Davie 3. Hicks Estate 4. Oakhollowes 5. Oak PARK 6600 gpd	121	Davie



Meeting Agenda

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TAZ_ID	No. of new developments in the TAZ	Project Name	Population per TAZ using Billed Water PCUR of 92.6	Municipality
596	4	1.Temple View Estates FKA Shotgun Estates East 2.18:555 ELDRIDGE PARK 3.TEMPLE VISTA 5400 gpd 4.Millstone Ranches 9000 gpd LS 362	213	Davie
602	1	1.Martin Square (AKA Weston Road Shopping Cntr)	8	Davie
604	2	1.Health Care Group - Regency P-B 2.Regency Office Park	7	Davie
Total			1,218	



Final Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2025

Intergovernmental Coordination between City of Sunrise Utilities Department and Town of Southwest Ranches

February 4, 2025

Objective:

The City of Sunrise (City), Town of Southwest Ranches Planning Department (Town) and Stantec met for the City of Sunrise 10 Year Water Supply Facilities Work Plan – 2025 Update Intergovernmental Coordination on February 4th, 2025.

Agenda items, discussions and action items from the meeting are provided below.

Item No.	Agenda Items	Action Items
1.	Stantec described the purpose of the meeting and provided an overview of the Project.	
2.	Point of contacts are listed below for further communications. Town of Southwest Ranches (Town) – Jeff Katims, AICP, CNU-A City of Sunrise – Wilhelmina Montero, P.E. Sangeeta Dhulashia, P.E. Stantec – Zuhail Ozturk, Ph.D., P.E. Bharani Rajasekaran, EIT	
3.	Service Area - Boundaries of the City's existing and future utility service area were reviewed. - City of Sunrise Utility service area boundaries will change for the Town. - Town indicated that there is one 57-acre property along the east side of US 27 which is proposed to be developed as 60,000 sq. ft of light industrial use and 116,000 sq. ft of retail use. There is a second property that was approved to be developed as an approximate 35,000 sq. ft of warehouse distribution use. Both of these properties will be served by the City of Pembroke Pines.	1. Town sent the location map for the two developments to be served by the City of Pembroke Pines. Stantec revised the future service area map based on the information received. 2. Town informed Stantec on May 7, 2025, that earliest date the two developments may start receiving water service from the City of Pembroke Pines could be by the end of 2027.
4.	A. Population Projections were reviewed and discussed.	1. Stantec removed the old developments and replaced them with those discussed during the meeting and confirmed by the Town after the meeting. The final list of



February 4, 2025

City of Sunrise 10 Year Water Supply Facilities Work Plan - 2025 Update

Page 2 of 2

Item No.	Agenda Items	Action Items
	B. The list of new development projects from WSP 2020 was reviewed and discussed.	developments is provided in Table 1 below.

Attachments:

- Meeting Agenda
- Sign-In Sheet

These Meeting Minutes represent Stantec's understanding of the meeting and are considered to be accurate and complete. If you have any comments and/or corrections, please email them to Zuhail Ozturk at Zuhail.Ozturk@stantec.com by **July 7th, 2025**. Any corrections received will be incorporated into the Meeting Minutes and they will be re-issued. If no comments and/or corrections are received by said date, these notes will be considered accurate and complete.

Table 1. Town of Southwest Ranches New Development and Redevelopment Projects - within City of Sunrise Utility Service Area

Project Name	ERC	Projected Demand (gpd)	Anticipated Completion Date	Municipality
Master's Academy	13	3333.70	2045	Town of Southwest Ranches
Platted Subdivisions	33	8462.47	2045	Town of Southwest Ranches
TOTAL	46	11796.16	2026-2045	Town of Southwest Ranches

- Notes:
- 1) This table shows projected development projects for the Town of Southwest Ranches within City of Sunrise Utility Service Area for WSP 2024
 - 2) ERC conversion factor for City of Sunrise Utility Service Area - 7,800 gal/month per ERC



Meeting Agenda

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Water Supply Facilities Work Plan Update 2024

SUBJECT: Intergovernmental Coordination between City of Sunrise Utilities Department and Town of Southwest Ranches

DATE & TIME of MEETING: February 4, 2025 at 8:00 AM

Location: Microsoft Teams Meeting

Item No.	Agenda Items
1.	Project Overview - Water Supply Facilities Work Plan (WSFP) overview
2.	Communications A. Point of contacts listed below for further communications. • COS – Wilhelmina Montero Sangeeta Dhulashia • Town of Southwest Ranches – Jeff Katims • Stantec – Zuhail Ozturk
3.	Service Area 1. Any potential for existing well users to be converted to retail service area?
4.	Population Projections A. Population Projections (without adjustment factor) – usage of Traffic Analysis Zone (TAZ) thru 2045 B. Status of reported new development and redevelopment projects, issued in WSP 2020. a. Which year should the new development/ redevelopment projects to be added to (2040 or 2045)?
5.	List of Data Needs A. Requested Documents • Conservation and Reuse Efforts
6.	Intergovernmental Coordination

Attachments:

- 1) Existing and Future Utility Service Area Map
- 2) Town of Southwest Ranches Projected Population - within City of Sunrise Utility Service Area
- 3) Town of Southwest Ranches Projected Population by TAZs- within City of Sunrise Utility Service Area
- 4) Town of Southwest Ranches New Development and Redevelopment Projects - within City of Sunrise Utility Service Area (from WSP 2020 for follow up and update)

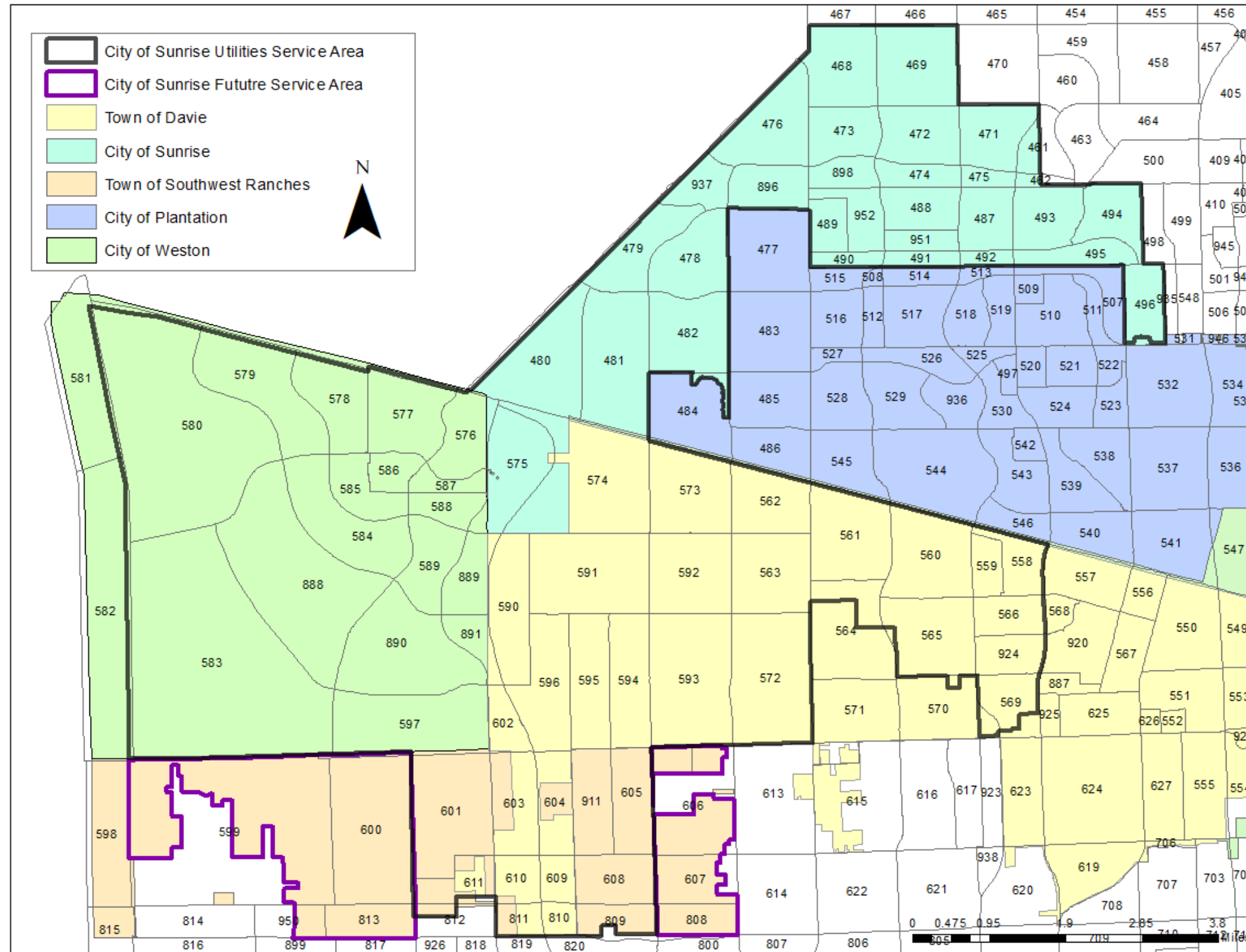


Figure 1- City of Sunrise Existing and Future Service Area



Meeting Agenda

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Table 1 – Town of Southwest Ranches Projected Population - within City of Sunrise Service Area

City	2025	2030	2035	2040	2045	Service Area
Town of SW Ranches	2,100	2,100	2,100	2,100	2,200	Existing
Town of SW Ranches					5,400	Future
Total	2,100	2,100	2,100	2,100	7,600	

Table 2 – Town of Southwest Ranches Projected Population by TAZs – Within City of Sunrise Utility Service Area

TAZID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
601	20%	356	334	354	351	355	SW Ranches	Existing
603	20%	383	380	378	376	374	SW Ranches	Existing
604	28%	449	446	443	439	437	SW Ranches	Existing
605	75%	306	290	308	305	314	SW Ranches	Existing
608	18%	70	66	69	69	76	SW Ranches	Existing
610	6%	58	57	58	57	57	SW Ranches	Existing
611	35%	264	263	261	260	260	SW Ranches	Existing
811	45%	0	0	0	0	0	SW Ranches	Existing
911	63%	260	239	258	256	282	SW Ranches	Existing
SUBTOTAL		2,145	2,075	2,128	2,112	2,156	SW Ranches	Existing
809	100%					246	SW Ranches	Future
812	1%					8	SW Ranches	Future
599	75%					2319	SW Ranches	Future
600	100%					1236	SW Ranches	Future
605	80%					334	SW Ranches	Future
606	40%					532	SW Ranches	Future
607	80%					215	SW Ranches	Future
808	100%					184	SW Ranches	Future
813	100%					277	SW Ranches	Future
950	20%					84	SW Ranches	Future
SUBTOTAL						5,435	SW Ranches	Future
TOTAL		2,145	2,075	2,128	2,112	7,591		



Meeting Agenda

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Table 3 – Town of Southwest Ranches New Development and Redevelopment Projects – within City of Sunrise Utility Service Area (**from WSP 2020**)

TAZ_ID	No. of New Developments in the TAZ	Project Name	Population per TAZ using Billed Water PCUR of	Municipality
601	1	Landmark Ranch Estates	50	SW Ranches
603	1	Residential Developments Adjacent to Dykes Rd	130	SW Ranches
605	1	Estates of Sunshine Ranches Master's Academy	128	SW Ranches
911	1	Meadow View Estates	8	SW Ranches
Total			316	



MEETING SIGN IN SHEET

Stantec
800 Fairway Drive
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(O) 954.851.1530 | (D) 954.647.7880

Meeting Attendance Record

Project Title: Water Supply Facilities Work Plan Update 2024

Meeting Subject: Intergovernmental Coordination between City of Sunrise Utilities Department and Town of Southwest Ranches

DATE & TIME of MEETING: February 4, 2025 at 8:00 AM

Location: Microsoft Teams Meeting

Initial	Name	Organization	Phone	Email Address
Microsoft Teams Meeting	Wilhelmina Montero	City of Sunrise	(954) 888-6058	wmontero@sunrisefl.gov
Microsoft Teams Meeting	Sangeeta Dhulashia	City of Sunrise	(954) 888-6071	sdhulashia@sunrisefl.gov
Microsoft Teams Meeting	Jeff Katims	Town of Southwest Ranches	(954) 372-6767	jeff@completecities.net
Microsoft Teams Meeting	Zuhal Ozturk	Stantec	(954) 851-1530	zuhal.ozturk@stantec.com



Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2024

Intergovernmental coordination between City of Sunrise Utilities Department and City of Weston January 28, 2025

Objective:

The City of Sunrise (City), City of Weston Planning Department, and Stantec met for the City of Sunrise 10-Year Water Supply Facilities Work Plan – 2024 Update Intergovernmental Coordination on January 28, 2025.

Agenda items, discussions, and action items from the meeting are provided below.

Item No.	Agenda Items	Action Items
1.	Stantec described the purpose of the meeting and provided an overview of the Project. The meeting was held to review and discuss the Population Projections for the city of Weston within City's service area.	
2.	Points of contacts are listed below for further communications. City of Weston (Weston) – Reddy Chitepu, P.E. City of Sunrise – Wilhelmina Montero, P.E. Sangeeta Dhulashia, P.E. Stantec – Zuhail Ozturk, Ph.D., P.E. Bharani Rajasekaran, EIT	
3.	Service Area - Boundaries for existing and future utility service areas were reviewed. - Weston confirmed that boundaries remained the same since 2020 WSP Update. - Broward County PFAM 2024 has split one of the TAZ areas (583) into two TAZ areas (583 and 962). This change will be shown in the new service area map.	
4.	A. Population Projections: Projected population for the years 2025, 2030, 2035, 2040 and 2045 for the City of Weston service area was reviewed and discussed. B. Weston confirmed that there is no individual land use or DRI changes planned.	1. Reddy Chitepu coordinated with the City of Weston Planning Department new development and redevelopment projects and sent an update on February 28, 2025. The final list of developments is provided in Table 1 below.



January 28, 2025

City of Sunrise 10 Year Water Supply Facilities Work Plan - 2024 Update

Item No.	Agenda Items	Action Items
5.	Conservation and Reuse Efforts	1. Weston will verify if there are any conservation and reuse efforts coordinated by the City of Weston.

Attachments:

- Meeting Agenda
- Sign-In Sheet

These Meeting Minutes represent Stantec's understanding of the meeting and are considered to be accurate and complete. If you have any comments and/or corrections, please email them to Zuhai Ozturk at Zuhai.Ozturk@stantec.com by **July 11th, 2025**. Any corrections received will be incorporated into the Meeting Minutes and they will be re-issued. If no comments and/or corrections are received by said date, these notes will be considered accurate and complete.

Table 1. City of Weston New Development and Redevelopment Projects - within City of Sunrise Utility Service Area

Project Name	ERC	Projected Demand (gpd)	Municipality
Saddle Club Manor - 4 Residential Homes	4.00	1,025.75	Weston
Weston 55+ & older rental community	139.30	35,721.86	Weston
Chabad - expansion including upwards of 22 townhomes	30.00	7,693.15	Weston
357 Racquet Club	109.37	28,046.66	Weston
TOTAL	282.67	72,487.43	Weston

Notes:

- 1) This table shows projected development projects for the City of Weston within the City of Sunrise Utility Service Area for WSP 2024. All demands are projected for 2030.
- 2) ERC conversion factor for City of Sunrise Utility Service Area - 7,800 gal/month per ERC



Meeting Agenda

Stantec
800 Fairway Drive
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Water Supply Facilities Work Plan Update 2024

SUBJECT: Intergovernmental Coordination between City of Sunrise Utilities Department and City of Weston

DATE & TIME of MEETING: January 22, 2025 at 9:30 AM

Location: City of Weston, Public Works – 2599 South Post Road

Item No.	Agenda Items
1.	Project Overview - Water Supply Facilities Work Plan (WSFP) overview
2.	Communications A. Point of contacts listed below for further communications. • COS – Wilhelmina Montero Sangeeta Dhulashia • Stantec – Zuhail Ozturk • City of Weston – Reddy Chitepu
3.	Service Area
4.	Population Projections A. Population Projections (without adjustment factor) – usage of Traffic Analysis Zone (TAZ) thru 2045 B. No individual land use changes or DRIs impacting future population projections besides those shown in Table 3. C. Status of reported new development and redevelopment projects, issued in WSP 2020. a. The City of Weston has Bonaventure west golf course already under development (as Botaniko, a 126 single family home development) and accounted for in the Broward County PFAM 2024. There was a proposal for Bonaventure Resort and Spa re-development for the east portion of the golf course, this proposal was not approved by the Commission. b. Which year should the new development/ redevelopment projects to be added to (2040 or 2045)?
5.	List of Data Needs A. Requested Documents • Conservation and Reuse Efforts
6.	Intergovernmental Coordination

Attachments: 1) Existing and Future Utility Service Area Map
2) City of Weston Projected Population - within City of Sunrise Utility Service Area
3) City of Weston Projected Population by TAZs- within City of Sunrise Utility Service Area
4) City of Weston New Development and Redevelopment Projects- within City of Sunrise Utility Service Area (from WSP 2020 for follow up and updates)

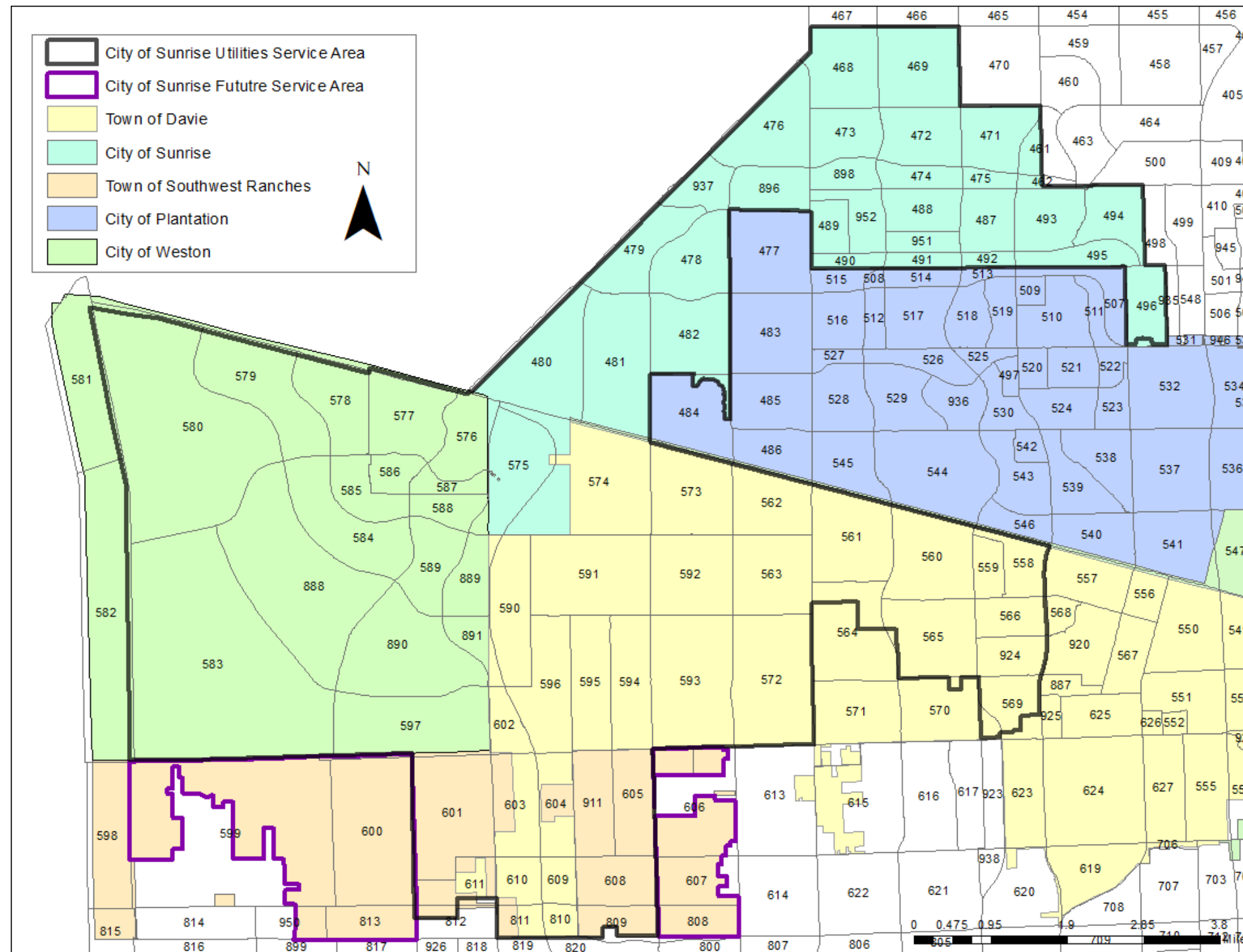


Figure 1 - City of Sunrise Existing and Future Service Area



Meeting Agenda

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Table 1 – City of Weston Projected Population - within City of Sunrise Service Area (BC PFAM 2024)

City	2025	2030	2035	2040	2045	Service Area
City of Weston	68,400	68,200	67,700	67,300	67,000	Existing

Table 2 - City of Weston Projected Population by TAZs – Within City of Sunrise Utility Service Area

TAZID	Factor of Service Area	Pop2025	Pop2030	Pop2035	Pop2040	Pop2045	MUNICIPALITY	SERVICE AREA
575	5%	202	200	199	198	197	Weston	Existing
576	100%	3292	3257	3225	3205	3184	Weston	Existing
577	100%	9161	9215	9114	9039	8970	Weston	Existing
578	100%	4584	4564	4549	4530	4515	Weston	Existing
579	100%	6575	6536	6504	6460	6441	Weston	Existing
580	100%	10601	10544	10493	10435	10399	Weston	Existing
583	100%	3796	3780	3765	3748	3732	Weston	Existing
584	100%	4209	4173	4149	4114	4087	Weston	Existing
585	100%	2171	2159	2149	2138	2129	Weston	Existing
586	100%	1265	1254	1248	1240	1234	Weston	Existing
587	100%	675	722	716	708	709	Weston	Existing
588	100%	1753	1740	1723	1712	1704	Weston	Existing
589	100%	2909	2885	2869	2841	2830	Weston	Existing
590	0%	0	0	0	0	0	Weston	Existing
597	100%	9857	9795	9728	9669	9624	Weston	Existing
888	100%	6454	6414	6376	6335	6306	Weston	Existing
889	100%	0	0	0	0	0	Weston	Existing
890	100%	937	946	940	931	931	Weston	Existing
891	84%	0	0	0	0	0	Weston	Existing
SUBTOTAL		68,441	68,184	67,747	67,303	66,992	Weston	Existing



Meeting Agenda

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Table 3 - City of Weston New Development and Redevelopment Projects - within City of Sunrise Utility Service Area (**from WSP 2020**)

TAZ ID	No. of new developments in the TAZ	Project Name	Population per TAZ using Billed Water PCUR of 92.6	Municipality
577	1	1. Botaniko FKA Weston Estates- Bonaventure 2. Bonaventure Resort & Spa Redevelopment (Proposed)	314	Weston
580	1	1. Church of God	13	Weston
583	1	1. St. Katharine Drexel Church Multipurpose Bldg	32	Weston
584	2	1. Paul Lutheran Church - Additional 2. On Fire Communications - Office Building	9	Weston
597	1	The Palace	308	Weston
890	2	1. Windmill Lake Estates AKA Windmill Ranch Estates 2. City of Weston EOC	57	Weston
891	1	1. Cleveland Clinic Expansion	648	Weston
Total			1,381	

Appendix F CITY OF SUNRISE WELL DESCRIPTIONS



Well ID	28539	28540	28541	28542	28543	28531	108086	108085
Name	SG-1	SG-3	SG-4	SG-5	SG-6	SG-8	SGF-1	SGF-2
Map Designator	Sawgrass1	Sawgrass3	Sawgrass4	Sawgrass5	Sawgrass6	Sawgrass8	SawgrassF-1	SawgrassF-2
Well Field	Sawgrass	Sawgrass	Sawgrass	Sawgrass	Sawgrass	Sawgrass	Sawgrass	Sawgrass
Existing/Proposed	E	E	E	E	E	E	E	E
Well Diameter(Inches)	18	20	20	20	20	20	16	16
Total Depth(feet)	95	95	95	95	95	95	1127	1150
Cased Depth(feet)	76	73	75	72	68	72	1006	1014
Facility Elev. (ft. NGVD)								
Screened Interval								
From	76	73	75	72	68	72	1000	1000
To	95	95	95	95	95	95	2000	2000
Pumped Or Flowing	P	P	P	P	P	P	P	P
Pump Type	Submersible	Submersible	Submersible	Submersible	Submersible	Submersible	Unspecified	Unspecified
Pump Int. Elev.								
Feet (NGVD)								
Feet (BLS)	-40	-40	-40	-40	-40	0		
Pump Capacity(GPM)	2100	2100	2100	2100	2100	2100	2100	2100
Year Drilled	1997	1997	1997	1997	1997	1997	2013	2013
Planar Location								
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate	DIGITIZED	DIGITIZED
Feet East	880,057	878,927	878,237	877,177	876,567	876,142	871709	872001
Feet North	664,686	664,181	663,341	662,746	662,391	662,351	656421	653952
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Primary	Primary	Primary	Back up	Back up
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Floridan Aquifer System	Floridan Aquifer System

[illegible]

[illegible]

[illegible]

Well ID	108084	28575	274270	279330	279331
Name	MF-1	RO-1	SW-2R	SW-1R	SW-3R
Map Designator	MF-1 (Melaleuca)	RO-1 (Springtree)	SW-2R	SW-1R	SW-3R
Well Field	Melaleuca	Springtree	Southwest Broward	Southwest Broward	Southwest Broward
Existing/Proposed	E	E	E	E	E
Well Diameter(Inches)	16	16	12	12	12
Total Depth(feet)	1200	1270	70	70	70
Cased Depth(feet)			50	50	50
Facility Elev. (ft. NGVD)					
Screened Interval					
From	1000	1110			
To	2000	1270			
Pumped Or Flowing	P	P	P	P	P
Pump Type	Submersible	Submersible	Submersible	Turbine	Turbine
Pump Int. Elev.					
Feet (NGVD)					
Feet (BLS)		0		37	37
Pump Capacity(GPM)	2100	1400	700	700	700
Year Drilled					
Planar Location					
Source	DIGITIZED	APPLICANT	APPLICANT		
Feet East	879998	898007	868057	868386	868065
Feet North	648688	670372	622066	621810	621699
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter	Flow Meter
Use Status	Back up	Primary	Primary	Primary	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply	Public Water Supply
Aquifer	Floridan Aquifer System	Floridan Aquifer System	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer

Appendix G **CITY OF SUNRISE UNINCORPORATED PROPERTIES**



CITY OF SUNRISE
APPENDIX G - UNINCORPORATED PROPERTIES

- 15931 N WIND CIRCLE; NEW RIVER ESTATES SECTION ONE 103-28 B LOT 8 BLK A
- 620 SW 159 TERRACE; NEW RIVER ESTATES SECTION ONE 103-28 B LOT 3 BLK B
- 15910 N WIND CIRCLE; NEW RIVER ESTATES SECTION ONE 103-28 B LOT 4 BLK B
- 641 SW 158 TERRACE; NEW RIVER ESTATES SECTION ONE 103-28 B LOT 28 BLK D