

July 24, 2020

Ray Eubanks, Plan Processing Administrator State Land Planning Agency Florida Department of Economic Opportunity Caldwell Building 107 East Madison - MSC 160 Tallahassee, Florida 32399-4120

Re: City of Sunrise Adopted Comprehensive Plan Amendment – DEO No. 20-01ESR

Mr. Eubanks:

Enclosed, please find one (1) original and two (2) copies (on CD-ROM) of the adopted amendment to the City of Sunrise Comprehensive Plan. The information provided below is in accordance with Section 163.3184(3) F.S. and the Department's submittal guidelines.

- 1. The adopted amendment:
 - a. Amends the text contained in the Infrastructure, Capital Improvements and Intergovernmental Coordination Elements of the Comprehensive Plan.
 - b. Adopts the amended 10-Year Water Supply Facilities Work Plan 2020 Update.
- 2. The City Commission of the City of Sunrise adopted the amendment by Ordinance No. 385-20-A on July 14, 2020.
- 3. One (1) copy of the adopted amendment package is being transmitted simultaneously to the following state agencies: Department of Environmental Protection, Department of State, Department of Education, Department of Transportation, South Florida Water Management District, South Florida Regional Planning Council, and Broward County Planning Council.
- 4 No additional changes were made to the adopted amendment that the State Land Planning Agency did not previously review.
- The contact person for the amendment is: Jim Koeth, AICP, LEED AP BD+C Assistant Director/City Planner 1601 NW 136th Avenue, Building A Sunrise, FL 33323 (954) 746-3279 (954) 746-3287 fax jkoeth@sunrisefl.gov

Mr. Ray Eubanks July 24, 2020 Page 2 of 2

Should you have any questions, or require any additional information, please contact Jim Koeth at (954) 746-3279 or jkoeth@sunrisefl.gov or Matthue Goldstein, Planning & Zoning Manager, at (954) 746-3291 or mgoldstein@sunrisefl.gov.

Sincerely,

CITY OF SUNRISE

For Shannon Ley, P.E., JK Director of Community Development

SL/bs

cc: Jim Koeth, AICP, LEED AP BD+C, Assistant Director/City Planner (letter only) Matt Goldstein, Planning & Zoning Manager (letter only) Tim Welch, P.E., Director of Utilities (letter only) Attn: Plan Review, Office of Intergovernmental Programs Florida Department of Environmental Protection Robin Jackson, Historic Preservation Planner Bureau of Historic Preservation, Florida Department of State Mark Weigly, Director Office of Educational Facilities, Florida Department of Education John Krane, P.E., District Planning and Environmental Administrator Florida Department of Transportation (FDOT) - District IV Terry Manning, AICP, Policy & Planning Analyst South Florida Water Management District Isabel Cosio Carballo, Executive Director South Florida Regional Planning Council Barbara Blake Boy, Executive Director Broward County Planning Council

Attachments:

Ordinance No. 385-20-A

Changes to the Infrastructure, Capital Improvements and Intergovernmental Coordination Elements of the Comprehensive Plan in strike-through/underline format Amended 10-Year Water Supply Facilities Work Plan – 2020 Update Display Ad Published February 3, 2020 Legal Ad Published July 4, 2020 Display Ad Published July 9, 2020

File: Water Supply Plan 2019-2020

CITY CLERK CITY OF SUNRISI

2020 JUL 15 AM 9: 24

SUNRISE, FLORIDA

ORDINANCE NO. 385-20-A

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF SUNRISE, FLORIDA TO ADOPT AN AMENDED 10-YEAR WATER SUPPLY FACILITIES WORK PLAN AND TO AMEND THE CITY OF SUNRISE COMPREHENSIVE PLAN TO STRENGTHEN COORDINATION BETWEEN WATER SUPPLY AND LOCAL LAND USE PLANNING BY AMENDING THE TEXT CONTAINED IN THE INFRASTRUCTURE. CAPITAL IMPROVEMENTS. AND INTERGOVERNMENTAL COORDINATION ELEMENTS; PROVIDING FOR TRANSMITTAL OF CERTIFIED COPIES OF THIS ORDINANCE AND COMPREHENSIVE PLAN AMENDMENTS TO THE FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY AND ALL OTHER UNITS OF LOCAL GOVERNMENT OR GOVERNMENTAL AGENCIES AS REQUIRED UNDER CHAPTER 163, PART II, FLORIDA STATUTES; PROVIDING FOR ADOPTION PURSUANT TO SECTION 163.3184(3), FLORIDA STATUTES; PROVIDING FOR INCLUSION IN THE CITY OF SUNRISE COMPREHENSIVE PLAN; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Section 163.3167(9) Florida Statutes requires each local government to address in its Comprehensive Plan, the water supply sources necessary to meet and achieve the existing and projected water use demand for an established planning period; and

WHEREAS, Section 163.3177(4)(a), Florida Statutes requires coordination of the local Comprehensive Plan with the water management district's Regional Water Supply Plan: and

WHEREAS, the City of Sunrise recognizes the need for better integration between land use planning and water supply planning; and

WHEREAS, Section 163.3177(6)(c)3, Florida Statutes requires that local governments update their 10-Year Water Supply Facilities Work Plan and amend their Comprehensive Plans within eighteen (18) months after the water management district approves a regional water supply plan or its update; and

ERTIFICATIO I certify this to be a true and correct copy of the

original document on file

Witness my hand and o

of Sunrise, Florida this

WHEREAS, the City of Sunrise adopted its 10-Year Water Supply Facilities Work Plan and related Comprehensive Plan amendments by Ordinance No. 385-15-A on March 10, 2015; and

WHEREAS, the South Florida Water Management District updated and approved its Regional Water Supply Plan entitled the "2018 Lower East Coast Water Supply Plan Update" (LEC) on November 8, 2018; and

WHEREAS, the City of Sunrise has reviewed and updated the adopted 10-Year Water Supply Facilities Work Plan and related Comprehensive Plan objectives and policies in order to comply with Florida law; and

WHEREAS, the City of Sunrise has proposed amendments to the objectives and policies of the Infrastructure, Capital Improvements and Intergovernmental Coordination Elements of its Comprehensive Plan to support and implement its amended 10-Year Water Supply Facilities Work Plan; and

WHEREAS, the City Commission believes it is in the best interest of the public to adopt an update to the 10-Year Water Supply Facilities Work Plan and to include these amendments in the Comprehensive Plan; and

WHEREAS, the City Commission finds the proposed 10-Year Water Supply Facilities Work Plan and Comprehensive Plan amendments as attached to this Ordinance in compliance with and consistent with the Florida law and its Comprehensive Plan; and

WHEREAS, the City Commission of the City of Sunrise, sitting as the Local Planning Agency, held a duly noticed public hearing on February 11, 2020, reviewed the proposed amended 10-Year Water Supply Facilities Work Plan and related Comprehensive Plan amendments and recommended approval to itself as the governing body of the City of Sunrise; and

WHEREAS, the City Commission finds the proposed 10-Year Water Supply Facilities Work Plan and Comprehensive Plan amendments, as attached to this Ordinance, in compliance with and consistent with Florida law and its Comprehensive Plan.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF SUNRISE, FLORIDA:

<u>Section 1</u>. The foregoing Whereas clauses are hereby ratified and incorporated as the legislative intent of this Ordinance.

<u>Section 2.</u> Amendment of Infrastructure Element of the City's Comprehensive Plan. Volume 1 of the City of Sunrise Comprehensive Plan is hereby amended by amending Policy 1.1.1 and Policy 1.1.13 of the Infrastructure Element of the City's Comprehensive Plan, as provided in Exhibit "A," which is attached hereto and made a part of this Ordinance.

Section 3. Amendment of the Capital Improvements Element of the City's Comprehensive Plan. Volume I of the Sunrise Comprehensive Plan is hereby amended by amending Policy 1.2.1 and Policy 1.2.3, more particularly described in Exhibit "B," which is attached hereto and made a part of this Ordinance.

Section 4. Amendment of the Intergovernmental Coordination Element of the City's Comprehensive Plan. Volume I of the City of Sunrise Comprehensive Plan is hereby amended by amending Policy 1.1.24 of the Intergovernmental Coordination Element, more particularly described in Exhibit "C," which is attached hereto and made a part of this Ordinance.

Section 5. City staff is authorized to transmit certified copies of this Ordinance containing these proposed amendments and the proposed 10-Year Water Supply Facilities Work Plan to the Florida Department of Economic Opportunity, all other units of local government and governmental agencies as required by Florida law for review after a vote on first reading of the Ordinance.

<u>Section 6.</u> The City Commission hereby adopts its amended 10-Year Water Supply Facilities Work Plan and these amendments to its Comprehensive Plan after second reading of this Ordinance.

<u>Section 7.</u> Inclusion in the Comprehensive Plan. It is the intention of the City Commission and it is hereby ordained that the amendments to the Comprehensive Plan made by this Ordinance shall become part of the Comprehensive Plan of the City of Sunrise.

Section 8. Conflict. All ordinances or parts of ordinances and all resolutions or parts of resolutions in conflict with this Ordinance are hereby repealed to the extent of such conflict.

<u>Section 9. Severability</u>. Should any provision of this Ordinance be declared by a court of competent jurisdiction to be invalid, the same shall not affect the validity of the Ordinance as a whole, or any part thereof, other than the part declared to be invalid.

Section 10. Effective Date. The Director of the Community Development Department is directed to transmit these plan amendments to the Florida Department of





Economic Opportunity and other required agencies, in accordance with the requirements of Chapter 163, Florida Statutes. This Ordinance shall become effective pursuant to Chapter 163, Part II of the Florida Statutes

PASSED AND ADOPTED upon this first reading this 11TH DAY OF FEBRUARY. 2020

PASSED AND ADOPTED upon this second reading this 14TH DAY OF JULY, 2020

Mayor Michael J. Ryan



SECOND READING

MOTION:	SCUOTTO
SECOND:	KERCH
DOUGLAS:	YEA
KERCH:	YEA
SCUOTTO:	YEA
SOFIELD:	YEA
RYAN:	YEA

Classe Kimberly A. Kisslan

KAKRG0204

FIRST READING

SCUOTTO

SOFIELD

YEA

YEA

YEA

YEA

YEA

Approved by the City Attorney

as to Form and Legal Sufficiency

MOTION:

SECOND.

DOUGLAS

SCUOTTO:

SOFIELD

RYAN

KERCH:

C20024 ORDINANCE NO. 385-20-A

4

EXHIBIT "A"

D. INFRASTRUCTURE ELEMENT

Policy 1.1.1 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

- WastewaterAnnual 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 410 93
gallons per person per day.
- 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 127 102 gallons per person per day.
- Policy 1.1.13 The City of Sunrise hereby adopts by reference the 10-Year Water Supply Facilities Work Plan, prepared by Stantec Consulting Services, Inc., dated January 2015 2020, 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.

EXHIBIT "B"

G. CAPITAL IMPROVEMENTS ELEMENT

- **Policy 1.2.1** 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 110 <u>93</u> gallons per person per day.
- **Policy 1.2.3** 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 127 102 gallons per person per day.

EXHIBIT "C"

H. INTERGOVERNMENTAL COORDINATION ELEMENT

Policy 1.1.24 The City of Sunrise is committed to support the C-51 Reservoir Project, identifying potential demands from thirty (30) fifty (50) year population projections 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.



10-Year Water Supply Facilities Work Plan – 2020 Update

January 16, 2020

(May 04, 2020 - SFWMD Comments Incorporated)

Prepared for: City of Sunrise

Prepared by: Stantec Consulting Services, Inc.

Table of Contents

1.0 1.1	CHAPTER 1- INTRODUCTION BACKGROUND	
1.2	PURPOSE	.1.3
2.0 2.1	CHAPTER 2- WATER SERVICE AREA INTRODUCTION	
2.2	WATER SERVICE AREA	
2.3 2.4	SERVICE WITHIN OTHER LOCAL GOVERNMENT JURISDICTIONS PRIVATE SUPPLIERS	
3.0	CHAPTER 3 – EXISTING WATER SUPPLY, TREATMENT, STORAGE AND	2.4
3.1	TRANSMISSION, AND DISTRIBUTION FACILITIES	
3.2	WATER SUPPLY FACILITIES	
0.2	3.2.1 Springtree Wellfield	
	3.2.2 Sawgrass Arena Wellfield	
	3.2.3 Sawgrass Flamingo Park Wellfield	
	3.2.4 Sawgrass Melaleuca Wellfield3.2.5 Park City Wellfield	
	3.2.6 Southwest Wellfield	
	3.2.7 Consumptive Use Permit Conditions	
3.3	WATER TREATMENT FACILITIES	
	3.3.1 Springtree Water Treatment Plant	
	3.3.2 Sawgrass Water Treatment Plant3.3.3 Southwest Water Treatment Plant	
3.4	WATER STORAGE FACILITIES	
3.5	WATER TRANSMISSION AND DISTRIBUTION SYSTEM	
4.0	CHAPTER 4 – POPULATION DATA AND ANALYSIS	
4.1		
4.2		
4.3 4.4	EXISTING AND FUTURE POPULATION DATA POPULATION PROJECTIONS	
4.4 4.5	VERIFICATION OF POPULATION PROJECTIONS	
5.0 5.1	CHAPTER 5 – WATER DEMAND	
5.1	HISTORIC WATER USE	
5.2	PER CAPITA USAGE	
5.4	WATER LOSS	
5.5	WATER DEMAND PROJECTION METHODOLOGY	
6.0 6.1	CHAPTER 6 - WATER SUPPLY FACILITIES WORK PLAN TRADITIONAL WATER SUPPLY PROJECTS	



6.2	ALTERN	ATIVE WATER SUPPLY DEMANDS	6.1
6.3	ALTERN	ATIVE WATER SUPPLY PROJECTS	6.5
	6.3.1	Sawgrass Recovery Increase – Conservation Project I	6.5
	6.3.2	Sawgrass WTP – Conservation Project II	6.5
	6.3.3	Sawgrass Reverse Osmosis (RO) (Phase I, II, and III)	6.6
	6.3.4	Sawgrass WTP ASR	6.6
	6.3.5	Springtree WTP RO – Phase I	6.7
	6.3.6	Park City RO – Phase I & Phase II	6.7
	6.3.7	C-51 Reservoir Project	6.7
	6.3.8	Southwest WRF – Phase I	6.8
	6.3.9	Sawgrass Water Reclamation Facility (WRF) - Phase I	6.8
6.4	ALTERN	ATIVE WATER SUPPLY DEVELOPMENT SCHEDULE	6.8
6.5	CONSE	RVATION PROGRAMS	6.9
	6.5.1	Water Conservation Public Education Program	6.9
	6.5.2	An Outdoor Water Use Conservation Program	6.9
	6.5.3	Water Conservation Based Rate Structure	
	6.5.4	Water Loss Reduction Program	
	6.5.5	An Indoor Water Conservation Program	6.12
6.6	REUSE	PROGRAMS	6.16
6.7	INTERG	OVERNMENTAL COORDINATION	6.16
	6.7.1	Ongoing Coordination Activities with Water Service Receiving Loca	l
		Governments	
	6.7.2	Needs for Additional Coordination Activities	6.17
	6.7.3	Coordination with LEC Plan Update	6.17
	6.7.4	Information on Memoranda of Understanding, Bulk Service	
		Agreements and Contracts	6.17
6.8	CAPITA	L IMPROVEMENT ELEMENT	6.18
6.9	GOALS,	OBJECTIVES, POLICIES	6.19
	6.9.1	Existing Goals Objectives and Policies	6.19
6.10	CONCL	USIONS	6.27

LIST OF TABLES

Table 3-1. Biscayne Wellfield Capacity	3.2
Table 3-2. Floridan Wellfield Capacity	3.3
Table 3-3. CUP Biscayne and Floridan Wellfield Maximum Withdrawal	3.5
Table 3-4. Water Treatment Facility Capacity	3.6
Table 3-5. Storage Capacity	3.7
Table 4-1. City of Sunrise Service Area Historic Population	4.1
Table 4-2. New Development and Redevelopment Projects	4.3
Table 4-3. City of Sunrise Service Area Population Projections	4.5
Table 4-4. 2018 LECWSP Update Projections for Sunrise Utility Water Service Area	4.6
Table 5-1. System Wide Historic Raw and Treated Water Records	5.1
Table 5-2. Historic Peak Factors	5.3
Table 5-3. System Wide Transmission and Distribution Loss	5.4
Table 5-4. Water Demand Projection for Each Municipality within the City's Service Area	5.5

Table 5-5. Annual Average Day Demand Projections (gallons per day)	5.5
Table 6-1. Sunrise Utilities Finished Water Demand by Source Category	6.3
Table 6-2. Conservation Programs Level of Participation and Outcomes	6.13
Table 6-3. Comparison of Facility Capacity and Anticipated Future Permitted Amount	6.28
Table 6-4. City of Sunrise, Alternative Water Supply Project Capital Costs (No Capital is	
Currently Required for Alternative Water Supply Projects)	6.28

LIST OF FIGURES

Figure 2-1. City of Sunrise Location Map	2.1
Figure 2-2. City of Sunrise Utilities Existing Service area	2.4
Figure 2-3. Potential Future Service Area	2.5
Figure 2-4. Potable and Non-Potable Users within City of Sunrise	2.6
Figure 3-1. Biscayne and Floridan Wellfield Locations	3.2
Figure 3-2. Water Treatment Plants Locations	3.6
Figure 3-3. Storage Locations	3.8
Figure 3-4. Transmission System	3.9
Figure 6-1. City of Sunrise Demand Versus 2018 LECWSP Update (102 gpcd)	

LIST OF APPENDICES

Appendix A. Growth Policy; County and Municipal Planning; Land Development	
Regulation, Chapter 163, F.S. Related to Water Supply Planning	A.1
Appendix B. City of Sunrise Private Potable, and Private and Public Non-Potable Water	
Use Permits	B.1
Appendix C. Water Supply System Interconnections	C.1
Appendix D. Sunrise Utility Service Area Population Projections by TAZs	D.1
Appendix E. Intergovernmental Meeting Minutes	E.1
Appendix F. City of Sunrise Well Descriptions	F.1
Appendix G. City of Sunrise Unincorporated Properties	G.1

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 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 2018 Lower East Coast Water Supply Plan Update (2018 LECWSP Update) was prepared by the South Florida Water Management District (SFWMD) and approved by the District's Governing Board on November 8, 2018. 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 May 8, 2020.

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 2018 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 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 Ten-Year Water Supply Facilities Work Plan and enhance Goals, Objective and Policies (GOPs) of its comprehensive plan.
- Regional Water Availability (RWA) Rule February 6, 2007 The RWA limits the water withdrawals from 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 29.09 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 is intending to capture stormwater in wet season and release it during the dry season to recharge the Biscayne Aquifer. The City of Sunrise is one of the participating utilities that has executed agreement with Palm Beach Aggregates (PBA) who owns and operates the construction of the C-51 Reservoir project. Additionally, the City of Sunrise has constructed two Floridan wells and are into permitting phase to be able to re-purpose these wells as Aquifer Storage and Recovery (ASR) wells.
- 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 4 MGD Reuse facility at the Sawgrass WWTP was completed in 2019.
- 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 construction of Floridan well at Melaleuca site. The City's WUP has allocation at Park City but considering 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. Additionally, the City has plans to convert these wells to ASR wells if feasible.

The City of Sunrise has adopted policies in its comprehensive plan to promote greater water conservation, including discouragement of the use of potable water for irrigation, continuous monitoring of water use within limiting conditions of the consumptive 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 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, such as service on the C-51 Reservoir Working Groups, 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.

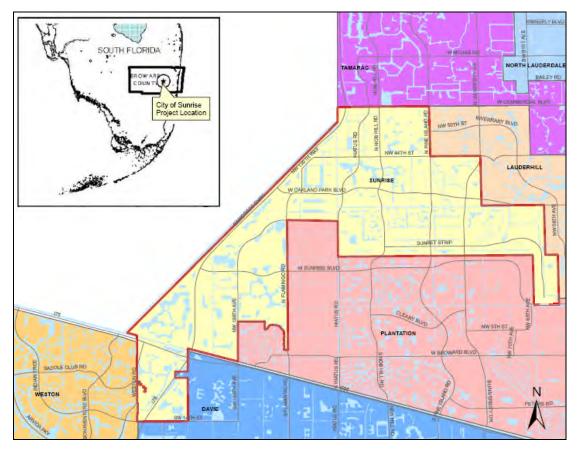
1.2 PURPOSE

The purpose of this Work Plan is to assess the City's current water sources and associated facilities and evaluate their adequacy to meet the projected raw and treated water demands and 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 2018 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, 2014 WSFWP)

Figure 2-1. City of Sunrise Location Map

2.2 WATER SERVICE AREA

The Utility provides water service to approximately 227,700 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 Lauderhill utility service areas to the east and south, 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 does 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 currently is 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 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.

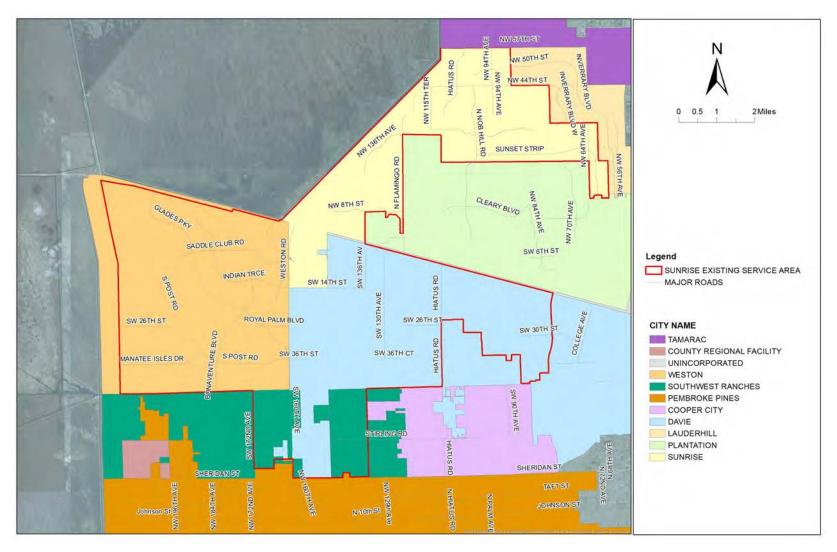
Appendix B includes an inventory list of potable and non-potable water service providers in addition to self-supplied individuals that are mapped in **Figure 2-4**.

The City of Sunrise and City of Weston municipal limits does not have any areas that are 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.



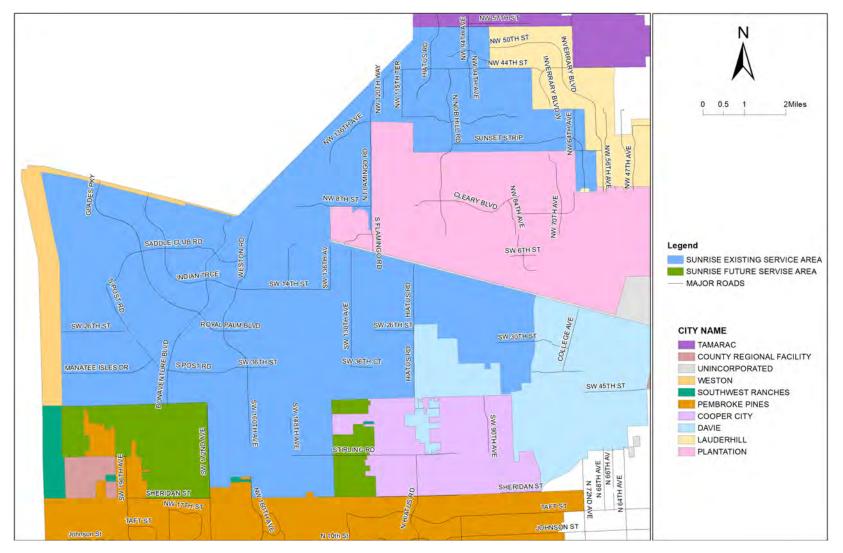
Additionally, there are eleven individual users in Town of Southwest Ranches that are considered to be in the future service area which are on domestic self-supply system.

(Remaining Section Intentionally Left Blank)



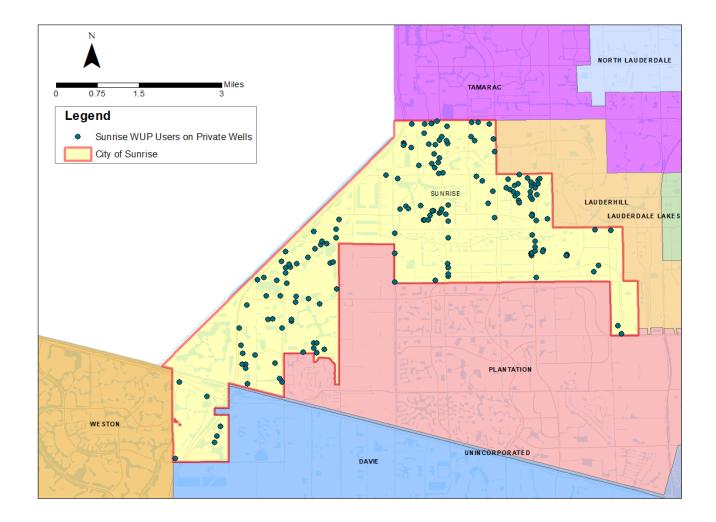
(Source: City of Sunrise, 2014 WSFWP)

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



(Source: City of Sunrise, 2014 WSFWP)

Figure 2-3. Potential Future Service Area



(Source: City of Sunrise, 2014 WSFWP)

Figure 2-4. 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

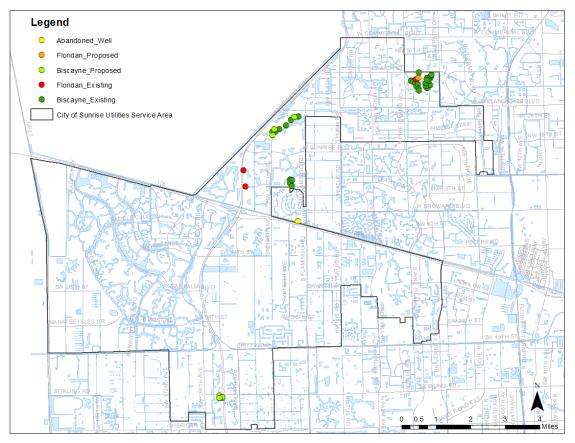
This section will provide an overview of the City's water supply system, water treatment facilities, and transmission and distribution system.

The City of Sunrise water supply system includes four active wellfields, three water treatment plants, one active remote storage and re-pump facility, and one active Floridan Reverse Osmosis (RO) water treatment process with Floridan supply well (formerly known as Aquifer Storage and Recovery (ASR) well). The Utility's water transmission and distribution system includes approximately 750 miles of water mains ranging in size from 8 to 48 inches in diameter. The City currently has emergency interconnections with the City of Lauderhill, 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 and Floridan Aquifers. The Biscayne Aquifer facilities have a constructed capacity of 60 MGD with a permitted water use allocation of 29.09 MGD and the Floridan Aquifer facilities have a capacity of 2 MGD with a permitted water use allocation of 10.98 MGD. The City currently operates the following four wellfields: Springtree, Sawgrass (Arena), Sawgrass (Flamingo Park), and Southwest. Melaleuca and Park City wellfields have been decommissioned. The Biscayne and Floridan well field 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, 2014 WSFWP; SFWMD Geospatial Open Data Website, 2019)



Wellfield Location	WP Served	Total Installed Capacity (MGD)	Total Installed Firm Capacity (MGD)
Springtree	Springtree	24	22
Sawgrass (Arena)	Sawgrass	18	15
Flamingo Park	Sawgrass	15	11
Southwest	Southwest	3	2
TOTAL		60	50

Table 3-1. Biscayne Wellfield Capacity

(Source: City of Sunrise, 2019)

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

Table 3-2. Floridan Wellfield Capacity

*Melaleuca is currently not in service. (Source: City of Sunrise, 2019)

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 25 Biscayne production wells with 18 wells in operation and 7 wells that have been abandoned. This Biscayne Aquifer wellfield has a total installed pump capacity of 24 MGD.

3.2.1.2 Floridan Aquifer Wells

The Springtree wellfield also consists of one Floridan/ASR well with a total raw water capacity of 2.0 MGD. This well supplies raw water to the Springtree Reverse Osmosis (RO) Water Treatment Plant (WTP).

3.2.2 Sawgrass Arena Wellfield

3.2.2.1 Biscayne Aquifer Wells

The Sawgrass wellfield is located adjacent to the BB&T Center 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 City is in process of installing raw water mains from the wells to the treatment plant. The wells are planned to be equipped with wellheads.



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 add flow 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 19 years. There is also a Floridan aquifer well at this site that is not in use and is currently not equipped.

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 has Floridan allocation of 4.09 MGD. No Floridan well currently exists 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 South West Water Treatment Plant site. The wellfield consists of three Biscayne Aquifer wells with a total raw water capacity of 3 MGD.

3.2.7 Consumptive Use Permit Conditions

The SFWMD regulates the volume of water that can be withdrawn from surface and groundwater through the use of a Consumptive Use Permit (CUP) pursuant to Part II of Chapter 373 of the Florida Statutes. The last CUP issued to the City by the SFWMD was in May 2008. The City is closely working with the SFWMD on alternative water supply projects in conjunction with the renewal of the permit. The last Permit No 06-00120-W included the Springtree, Sawgrass (Arena), Southwest, and Flamingo Park wellfields and allows a combined average withdrawal of 29.09 MGD from the four wellfields and a maximum month withdrawal allocation of 999.30 Million Gallons per Month (MGM). In addition to a system-wide maximum day allocation, the CUP also identifies a maximum day withdrawal for each wellfield as described in **Table 3-3**.



Wellfield Locations	Equivalent Annual Average Day (MGD)	Maximum Monthly Allocation (MGM)
Biscayne Wellfields		
Sawgrass Arena (only)	6.00	206.10
Sawgrass Flamingo Park (only)	11.31	388.50
Springtree	10.70	367.60
Park City (decommissioned)	-	
Southwest Facilities	1.08	37.10
Total	29.09	999.30
Floridan Wellfields		
Sawgrass RO	4.39	150.8
Springtree RO	2.50	85.9
Park City RO	4.09	140.5
Total	10.98	377.20

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

*Limited to minimize an adjacent wetland impact

(Source: City of Sunrise Consumptive 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 design treatment capacity of 51.5 MGD. The Springtree, Sawgrass, and the Southwest Utilities WTPs are currently active, while the Park City WTP has been 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 2018, from each active facility.

3.3.1 Springtree Water Treatment Plant

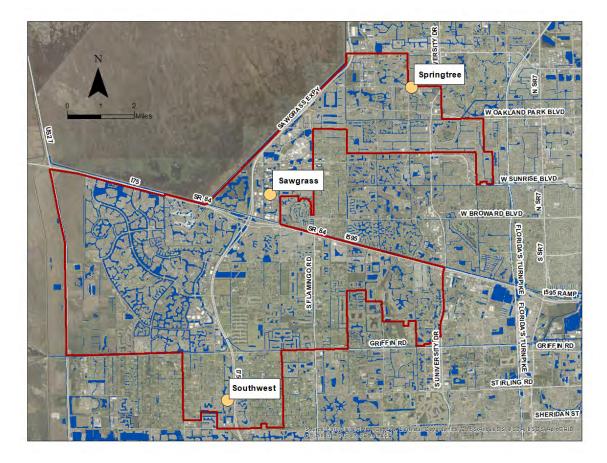
The Springtree WTP is located on a 20.6-acre site at 4350 Springtree Drive in Sunrise, located south of NW 44th Street and east of Springtree Drive. The water treatment facility includes a conventional lime-softening treatment facility and a reverse osmosis process. This facility has a total design and 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.

3.3.2 Sawgrass Water Treatment Plant

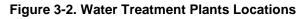
The Sawgrass WTP, located at 14150 NW 8th street in Sunrise, within the Sawgrass Corporate Park, was constructed in 2000 and expanded in 2003. The plant uses nanofiltration membranes as the primary treatment process with post treatment degasification and disinfection. The plant has been re-rated to a permitted treatment capacity of 24 MGD equaling its hydraulic capacity.



The concentrate produced from the membrane softening process is pumped to an industrial injection well, located on site.



(Source: City of Sunrise, 2019)



	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 Supplied MGD	11.8	14.19	1.04	27.03

Table 3-4. Water Treatment Facility Capacity

(Source: City of Sunrise, 2019)

3.3.3 Southwest Water Treatment Plant

The Southwest WTP was built in 1997 and is located at 15400 Watermill Road in Davie, and near the intersection of Interstate 75 and Stirling Road. The water treatment facility is a conventional lime-softening treatment plant with a treatment capacity of approximately 2 MGD. The residual handling systems for this facility consist of one wash water recovery basin (Sav-All Tank) and two sludge lagoons.

3.4 WATER STORAGE FACILITIES

The three water treatment plants each have two ground water storage tanks designed to buffer the water production process from the water distribution system. In addition to the water treatment plant storage, the City maintains one offsite storage facility. This offsite facility is comprised of ground storage tank, re-chlorination system and high service pump that assist with meeting peak hourly flow and fire flow requirements. **Table 3-5** lists the storage capacity at each location and **Figure 3-3** shows the location of the storage tanks.

Facility	Capacity (MGD)
Sawgrass	10.0
Springtree	9.0
South West Utilities	1.5
Weston (Indian Trace)	2.0
Melaleuca*	0.0
Bonaventure*	0.0
Total	22.5

Table 3-5. Storage Capacity

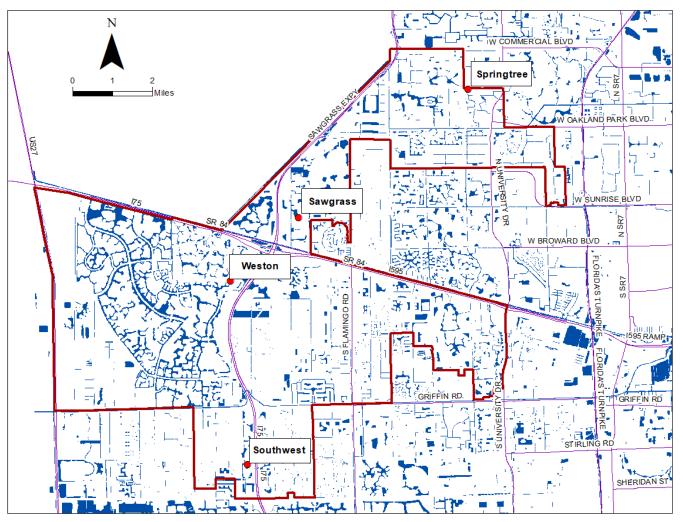
*Out of Service (Source: City of Sunrise, 2019)

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.

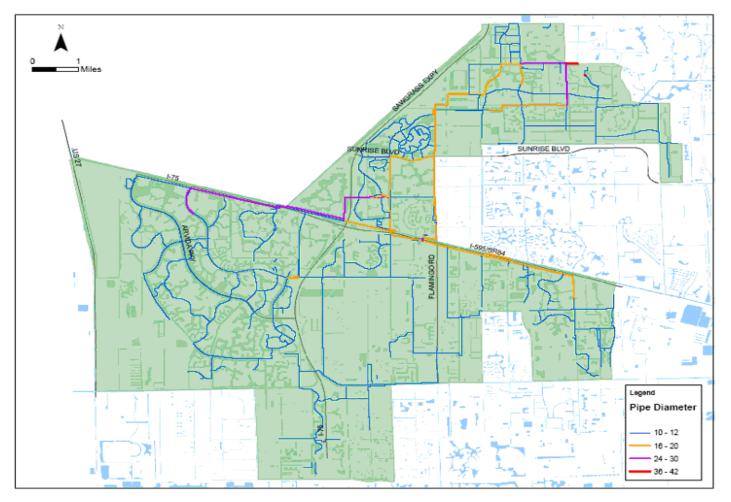
The City maintains water supply system interconnections for emergency with the City of Lauderhill, City of Plantation, Town of Davie, City of Pembroke Pines and Cooper City. **Appendix C** includes the details of the system interconnections.





(Source: City of Sunrise, 2019)

Figure 3-3. Storage Locations



(Source: City of Sunrise, 2019)



4.0 CHAPTER 4 – POPULATION DATA AND ANALYSIS

4.1 INTRODUCTION

This section evaluates historic 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 and the Town of Southwest Ranches. The population projections have been rounded to the nearest hundred.

4.2 HISTORIC POPULATION DATA

Population within the City of Sunrise Utilities water service area has increased by 7.7% in the last decade. Between 2010 and 2018 growth was experienced in western communities in Broward County such as the City of Weston, the Town of Davie, and the City of Sunrise. **Table 4-1** presents the estimated historical population within the Utility service area.

Year	Population		
2010	211,400		
2011	213,600		
2012	215,800		
2013	217,900		
2014	220,100		
2015	223,300		
2016	224,100		
2017	225,900		
2018	227,700		

Table 4-1. City	of Suprise	Service Area	Historic	Population
	y or Sumise	Service Area	HISIONIC	Fopulation

Note: ¹ Historic population data is estimated by an interpolation using LEC WSP 2013 for year 2010 and PFAM 2017 data for year 2020 obtained from Broward County Planning and Development Management Division

4.3 EXISTING AND FUTURE POPULATION DATA

Population projections developed by Broward County are used here. The County predicts population growth with the Broward County Population Forecasting and Allocation Model (BCPFAM) which, in this application, uses the 2016 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. Population projections are further refined based on the City and County review.

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 BCPFM and the review of roundtable panel discussions with the City and County officials.

4.4 POPULATION PROJECTIONS

This Water Supply Facility Work Plan uses the Broward County Traffic Analysis Zone (TAZ) model results dated from June 2017 as the basis for its population projections. The existing and future water service area boundaries were juxtaposed with the 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 serviced 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 any major land use changes impacting future population projections. There are two major development under construction, but these do not impact the zoning.
- The Town of Davie does not expect 'The Commons' to be developed at this time. The Town does not anticipate any major land use changes impacting future population projections besides those shown in Table 4-2.
- 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 2017. There was a proposal for Bonaventure Resort and Spa redevelopment for the east portion of the golf course, this proposal was not approved by the Commission. The City of Weston does not anticipate any major land use changes impacting future population projections besides those shown in Table 4-2.
- The City of Sunrise expects new developments listed in Table 4-2 either developed, underway or proposed within its entire service area. Meeting minutes for the intergovernmental coordination carried out in developing this Work Plan are shown in **Appendix E**.

To correlate the City's planned developments with the 2018 LECWSP Update population data, the portion of the City's population falling in each TAZ for each year of the PFAM data set were assessed. From year to year in the 5-year PFAM increments, the population proportions by TAZ change very little (generally less than 5% variability for the proportions). The City's 2018 LECWSP Update service area population data was then distributed to each TAZ to compare the 2018 LECWSP Update growth by TAZ to the City's planned developments. Next, for each of the TAZs where the City has identified projects, the 2020-2040 population growth was compared to the City's new development list:

- The City's new development totals 41,984 people (Table 4-2)
- The total LEC projected growth in Sunrise is 20,296 (2020-2040)
- The LEC data for the TAZs where the City has identified new developments includes projected growth of 13,761.

The Broward County PFAM modeling work assigns an upper limit to population for each TAZ, where planned developments that exceed the existing upper limit for the TAZ are redistributed to adjacent TAZs. Therefore, a conservative approach was used to estimate the difference between the 2018 LECWSP Update data and the City's planned developments by subtracting all of the 2018 LECWSP Update projected growth for the Sunrise service area from the growth estimated from the City's planned development results in additional growth of 21,655 between 2020 and 2040. To complete this analysis, the difference between the growth identified in the 2018 LECWSP Update and the City's planned developments was redistributed into the population forecast.

TAZ	Project Name	Population per TAZ	Municipality
468	 Sureway Moving & Storage Pan American T-Mobile Everglades MSO Commercial Blvd 	68	City of Sunrise
469	 Jafco Respite Center West Commercial Landings 	91	City of Sunrise
471	1.Springtree Villas 2.Springtree Center - Walgreens 3.Dollar General at Forum Plaza 4.BJ's Redevelopment	6,222	City of Sunrise
472	1.PINE PLAZA 5.73 AC 2.Skyline Professional Building	2,348	City of Sunrise
474	1.Frusciante	1,215	City of Sunrise
478	1. SGM Total expansion 64,000 gpd 2. METROPICA	7227	City of Sunrise
479	1.BB&T Arena 2. Confidential Development	11,393	City of Sunrise
481	1.WESTERRA 278 gpm 2. Racal Milgo System 1/Sunrise Industrial Park 3.Sawgrass Pointe III	7,489	City of Sunrise

Table 4-2. New Development and Redevelopment Projects



10-YEAR WATER SUPPLY FACILITIES WORK PLAN – 2020 UPDATE

TAZ	Project Name	Population per TAZ	Municipality
492	1.Sunset Square Plaza (With O'Reilly Autoparts)	8	City of Sunrise
493	1.Sunrise Country Club	2,916	City of Sunrise
494	1.Race Trac	15	City of Sunrise
561	1.595 Corporate Park of Commerce2.Caseyco3.Sierra Ranch 15600 gpd	308	Town of Davie
562	1.Fieldstone Shops of Davie, fka Tuscan Villas	29	Town of Davie
563	1.Miele-Simonson Estates 2.Flamingo Ranch Estates 3.Han-Mi Baptist Church 4.Kingdom Halls of Davie	58	Town of Davie
564	1.Westridge II 2.North Star Estates	30	Town of Davie
566	1.Commercial & Restaurant Development F	114	Town of Davie
569	1.Pine Island Office Centre	27	Town of Davie
572	1.Artis Senior Living 15120 gpd	163	Town of Davie
573	1.Casuarinas 2.ADDILYN 4,800 GPD	91	Town of Davie
574	1.Fire Station# 86 at Shenandoah- Town of Davie	8	Town of Davie
574	2.CSG Sunwest Building E	57	City of Sunrise
575	1.Westgate Square	18	City of Sunrise
576	1.Comm. Dev. & Blatt & Weston - Sunrise Por	57	City of Sunrise
577	1.Botaniko FKA Weston Estates- Bonaventure 2. Bonaventure Resort & Spa Redevelopment (Proposed)	314	City of Weston
580	1.Church of God	13	City of Weston
583	1.St. Katharine Drexel Church Multipurpose Bldg	32	City of Weston
584	1.Paul Lutheran Church - Additional 2.On Fire Communications - Office Building	9	City of Weston
591	1.Vista Lakes Lot 9 2.Silver Springs Ranches, lot 1 3.Live Oak Estates - Septic Tanks (3 homes)	20	Town of Davie
592	1.Leto Estates #4	20	Town of Davie
593	1.Stone Brook Estates 2.Grand Oaks Estates, Davie 3.Hicks Estat 4.Oakhollowes 5.Oak PARK 6600 gpd	121	Town of Davie
596	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	Town of Davie
597	1.The Palace	308	City of Weston
601	1.Landmark Ranch Estates	50	Town of SW Ranches
602	1.Martin Square (AKA Weston Road Shopping Cntr)	8	Town of Davie
603	1.Residential Developments Adjacent to Dykes Rd	130	Town of SW Ranches
604	1.Health Care Group - Regency P-B 2.Regency Office Park	7	Town of Davie
605	1.Estates of Sunshine Ranches 2. Master's Academy	128	Town of SW Ranches

TAZ	Project Name	Population per TAZ	Municipality
890	1.Windmill Lake Estates AKA Windmill Ranch Estates 2.City of Weston EOC	57	Town of Weston
891	1.Cleveland Clinic Expansion	648	City of Weston
911	1.Meadow View Estates	8	Town of SW Ranches
937	1.Artesia Pods N, T & S	296	City of Sunrise
952	1.Fairway Isles Revised Site Plan - PC Fees paid 2005.	212	City of Sunrise
	TOTAL	42,544	

(Source: City of Sunrise, 2019)

Approximately one half of the Town of Southwest Ranches is currently on private wells and is not expected to be on municipal water supply in the near future, as that decision will be driven by customer/resident's discretion. Projected population per TAZ is presented in **Appendix D**.

YEAR	2020	2025	2030	2040	Service Area
Weston	66,700	68,400	69,700	69,600	Existing
Davie	62,100	63,300	65,000	68,000	Existing
Sunrise	100,000	103,800	107,400	126,000	Existing
SW Ranches	2,400	2,400	2,500	2,500	Existing
SW Ranches	-	-	-	7,100	Future*
Total	231,300	238,000	244,600	273,100	

Table 4-3. City of Sunrise Service Area Population Projections

*The potential future service area in SW Ranches is derived from Broward County PFAM 2017 and populations were applied to Sunrise Utilities Service Area starting in 2040.

(Source: Computed by Stantec, 2019)

4.5 VERIFICATION OF POPULATION PROJECTIONS

Population projections computed for this work plan were shared and agreed upon with these 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 found in **Appendix E**.

These population projections were also compared with the projections for the City's service area in the SFWMD's 2018 LECWSP Update, see **Table 4-4**. Population estimates included in the 2018 LECWSP Update used 2017 BEBR data while the population projections presented in this work plan are based on the published Broward County Population Forecasting Model 2017 which used 2016 BEBR data. The variation is in the range of 0% to 8% in 2040. This variation is a result of many new developments planned within the City service area.

Table 4-4. 2018 LECWSP Update Population Projections for Sunrise Utility Water Service Area

Year 2020		2030	2040	
Population	231,288	244,619	251,584	

(Source: 2018 LECWSP Update)

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5.0 CHAPTER 5 – WATER DEMAND

5.1 INTRODUCTION

The treated and raw water needs of the City of Sunrise Utilities Water Service Area in the future are presented in this section. The projected demand is based upon the population projections presented in the previous section.

5.2 HISTORIC WATER USE

The average system-wide potable water production recorded at the beginning of year 2011 was 23.8 MGD and this value was approximately 22.45 MGD in 2018 which represents a decrease of 5.6 percent in the past 8 years. System wide historic raw and treated water data are represented in **Table 5-1**. The total pumpage and maximum month pumpage (shown in column A and B) represents historic reported raw water withdrawals to the South Florida Water Management District. The pumpage data is derived from the sum of flow meters at individual water supply wells. The raw water total, average month and maximum month data (shown in column C, D and E) are obtained from the master meter within the plant. There is a minor discrepancy (3%) between the total flow from individual flow meters and master meter at the plant. The maximum to average month ratio (column F) and treated to raw water ratio (column G) are calculated using the data from plant master meter.

				Treated	d Water						
	Α	В	С	D	E	F	G	Н	I	J	К
	Total (mgy) - Pumpage data	Max Month (mgm) - Pumpage data	Total (mgy)	Avg Month (mgm)	Max Month (mgm)	Max Month / Avg Ratio	Treated / Raw Ratio	Total (mgy)	Avg Month (mgm)	Max Month (mgm)	Max Month / Avg Month Ratio
2011	9779		9802	817	953	1.17	0.89	8683	724	826	1.14
2012			9276	773	850	1.10	0.87	8067	672	744	1.11
2013	9060		9072	756	877	1.16	0.90	8172	681	761	1.12
2014	8792	829	9008	751	847	1.13	0.93	8336	695	801	1.15
2015	9193	836	9495	791	884	1.12	0.91	8621	718	803	1.12
2016	9008	824	9072	756	855	1.13	0.91	8260	688	773	1.12
2017	8853	790	8889	741	820	1.11	0.92	8152	679	733	1.08
2018	9120	826	9122	760	826	1.09	0.90	8196	683	743	1.09

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

(Source: City of Sunrise, 2019)

Based on historic seasonal treated water demands from year 2011 to 2018, the maximum month demand is 1.08 to 1.14 times the average month demand. Usually, the maximum month occurs between March and May and the minimum month demand usually occurs between September and October.



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 past 8 years is shown in **Table 5-2**. As seen in **Table 5-2**, the system-wide treatment efficiency (product water as a percentage of raw water for the entire Utility System) is approximately 87 to 92%.

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	Springtree WTP		ТР	Spi	ringtree WTF	? (RO)	Se	outhwest W	/TP		awgrass W	ТР		System Totals	otals		
Date	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/Av g 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		
2011	0.92	1.39	1.09				1.03	1.22	1.08	0.85	1.48	1.24	0.89	1.34	1.17		
2012	0.89	1.06	1.06				0.97	1.27	1.14	0.85	1.37	1.20	0.87	1.23	1.10		
2013	0.96	1.17	1.05				0.97	1.14	1.06	0.85	1.57	1.27	0.90	1.34	1.16		
2014	1.00	1.14	1.06	0.76	5.26	3.38	0.96	1.14	1.10	0.85	1.43	1.11	0.93	1.23	1.13		
2015	1.00	1.04	1.15	0.75	1.59	1.40	0.93	1.23	1.06	0.85	1.49	1.09	0.91	1.21	1.12		
2016	1.00	1.14	1.17	0.75	1.72	1.58	0.92	1.82	1.07	0.86	1.43	1.09	0.91	1.28	1.13		
2017	1.00	1.20	1.04	0.73	3.67	2.79	1.32	3.67	2.79	0.85	1.37	1.10	0.92	1.28	1.11		
2018	0.98	1.70	1.16	0.79	3.38	3.11	0.91	21.68	12.02	0.85	1.43	1.09	0.90	1.34	1.09		

Table 5-2. Historic Peak Factors

(Source: City of Sunrise, 2019)

5.3 PER CAPITA USAGE

Based on the total water metered to customers, and the estimated historic population the treated water leaving the plants, the per capita usage computed for the past five years (2014-2018) was 102 gallons per capita per day (gpcd) of treated water at the plant. This is comparable to the per capita usage rate of 93 gpcd at customer connection shown in the Consumptive Use Permit (CUP) application for C-51 Reservoir Project. The per capita usage rate of 102 gpcd treated at the plant is within is within 3.5% of the SFWMD 2018 LECWSP Update data, which shows a treated water per capita rate of 98 gpcd for the City of Sunrise Utility Water Service Area. The City's updated Comprehensive Plan will show the level of service at 102 gpcd treated water at the plant. Section 5.5 Water Demand Projection Methodology 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 5-2**, the system wide treatment loss is at an average of approximately 9% over the past few years. System-wide treatment losses are comprised of losses from three treatment processes; lime softening, reverse osmosis, and nano filtration. Lime softening process offers the lowest loss. These losses are increased for the Sunrise Water Utility as use of alternative water sources such as Floridan brackish water increased, which also increases the need for additional capacity from these alternate treatment processes.

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 5%. **Table 5-3** shows the system wide transmission and distribution water loss data.

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	%	%	%
2014	8266	742	7242	1024	11.94	0.45	12.39
2015	8621	873	7782	839	9.23	0.51	9.74
2016	8260	812	7560	701	7.99	0.49	8.48
2017	8152	841	7480	671	7.72	0.52	8.20
2018	8196	926	7208	741	8.48	0.57	9.00

Table 5-3. System Wide Transmission and Distribution Loss

* Total losses were computed as a total real and apparent water losses. Total real water losses associated with leakage from distribution mains, storage tanks, service connection, etc. Apparent water losses include billing errors, meter inaccuracies, and illegal water consumptions which was assumed in the range of 5% system wide. (Source: City of Sunrise, 2019)



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 102 gpcd applied to population forecast for each time horizon until 2040.

Water demand projections were based on population projections and per capita demands. The service area wide demand forecasting was completed by multiplying the per capita water use of 102 gpcd by population forecast data for the entire service area for the years 2020, 2030, 2035, and 2040. Billing data of year 2017 was received to determine 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 split and population split by local government. The per capita demand by local government is shown in Table 5-4. **Table 5-5** shows demand projections for each municipality serviced by the City of Sunrise utilities for years 2020, 2030, 2035, and 2040.

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)	127	85	98	68	102

(Source: Computed by Stantec, 2019)

City	2020	2025	2030	2040	Service Area
City of Weston	8,455,000	8,666,400	8,830,300	8,901,200	Existing
Town of Davie	5,243,200	5,347,500	5,502,300	5,832,600	Existing
City of Sunrise	9,729,600	10,102,500	10,450,900	12,474,400	Existing
Town of SW Ranches	163,700	165,600	169,300	169,800	Existing
Town of SW Ranches				479,700	Future*
Total**	23,591,500	24,282,000	24,952,800	27,857,700	

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

* The potential future service area in SW Ranches is derived from Broward County TAZ population projections.

** These demand numbers are rounded to the nearest hundred for individual local governments.

(Source: Computed by Stantec, 2019)

6.0 CHAPTER 6 - WATER SUPPLY FACILITIES WORK PLAN

Our analysis accounts for systemwide demand needs through 2040. 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 are 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 TRADITIONAL WATER SUPPLY PROJECTS

The majority of the anticipated water demand through 2040 will be met by the traditional water supply (Biscayne aquifer), treatment and distribution systems.

The last traditional water supply source project was completed in 2008: Four Biscayne aquifer wells were added to the City's Flamingo Park wellfield with service to the Sawgrass WTP, and a pumping capacity of 15 MGD. The City has submitted the CUP application for C-51 Reservoir project future allocation. This application is under review by the SFWMD.

6.2 ALTERNATIVE WATER SUPPLY DEMANDS

The City of Sunrise currently does not anticipate water demands to exceed supply until year approximately 2040, although plans and designs are underway for a number of alternate water supply projects to stay ahead of the anticipated demands. The City also constructed and commissioned a low pressure 1.5 MGD reverse osmosis (RO) plant at the Springtree Water Treatment Plant facility in April 2014 and completed an interconnect with the Town of Davie in November 2015. Ion exchange is added to provide additional buffering capacity, but results in some additional supply capability.

The future demands will exceed Biscayne aquifer allocation which is fixed at 29.09 MGD based on CUP application, and that alternate water supplies from both the C-51 Reservoir Project and substitution credits from wastewater reuse will address these needs, depending on the success with implementing each alternative.

Table 6-1 illustrates the Plan by which the City meets future demands by alternative water supply source category. This table shows the planned growth using the Broward County population projections and the



average system wide per capita demands equal to 102 gpcd. **Table 6-1** shows yearly demand projections as a function of population forecast and water use rate of 102 gpcd. These demand projections are treated water at the plant prior to purveying to the customers. The recently submitted WUP application has table 3-9 which shows the systemwide Annual Average Finished Demand at the customer point of connection rather than at the treatment plant. **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 CUP.

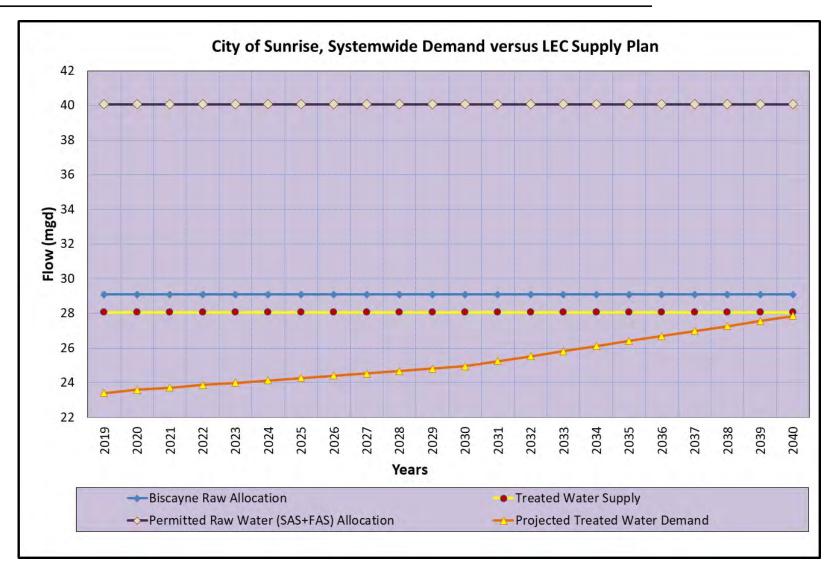
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Α	В	С	D	E	F	G	Н	I	J
Date	Population to be Served	Projected Treated Average Day based on 2017 BCTAZ Population Projection	Biscayne Treated Water Average Equivalent	Floridan Aquifer RO Treated Water	Sawgrass Ion Exchange Treated Water Savings	Total available 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)	(MGD)
		C = B x 102gpcd				G= D+E+F	H=C-G		
2019	229,500	23.41	26.14	1.5	0.42	28.06	-4.7	29.09	10.98
2020	231,300	23.59	26.14	1.5	0.42	28.06	-4.5	29.09	10.98
2021	232,600	23.73	26.14	1.5	0.42	28.06	-4.3	29.09	10.98
2022	234,000	23.87	26.14	1.5	0.42	28.06	-4.2	29.09	10.98
2023	235,300	24.00	26.14	1.5	0.42	28.06	-4.1	29.09	10.98
2024	236,600	24.13	26.14	1.5	0.42	28.06	-3.9	29.09	10.98
2025	238,000	24.28	26.14	1.5	0.42	28.06	-3.8	29.09	10.98
2026	239,300	24.41	26.14	1.5	0.42	28.06	-3.7	29.09	10.98
2027	240,600	24.54	26.14	1.5	0.42	28.06	-3.5	29.09	10.98
2028	242,000	24.68	26.14	1.5	0.42	28.06	-3.4	29.09	10.98
2029	243,300	24.82	26.14	1.5	0.42	28.06	-3.2	29.09	10.98
2030	244,600	24.95	26.14	1.5	0.42	28.06	-3.1	29.09	10.98
2031	247,500	25.25	26.14	1.5	0.42	28.06	-2.8	29.09	10.98
2032	250,300	25.53	26.14	1.5	0.42	28.06	-2.5	29.09	10.98
2033	253,200	25.83	26.14	1.5	0.42	28.06	-2.2	29.09	10.98
2034	256,000	26.11	26.14	1.5	0.42	28.06	-1.9	29.09	10.98
2035	258,900	26.41	26.14	1.5	0.42	28.06	-1.7	29.09	10.98
2036	261,700	26.69	26.14	1.5	0.42	28.06	-1.4	29.09	10.98
2037	264,600	26.99	26.14	1.5	0.42	28.06	-1.1	29.09	10.98
2038	267,400	27.27	26.14	1.5	0.42	28.06	-0.8	29.09	10.98
2039	270,300	27.57	26.14	1.5	0.42	28.06	-0.5	29.09	10.98
2040	273,100	27.86	26.14	1.5	0.42	28.06	-0.2	29.09	10.98

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

(Source: Computed by Stantec, 2019)





(Source: Computed by Stantec, 2019)

Figure 6-1. City of Sunrise Demand Versus 2018 LECWSP Update (102 gpcd)

6.3 ALTERNATIVE WATER SUPPLY PROJECTS

The City recently completed the construction of 3 MGD ion exchange facility to save additional raw water and improve the finished water quality at the Sawgrass WTP. The Sunrise Water Utility has completed a few and has planned several alternate water supply projects for phased delivery. The Sunrise Water Utility remains an active participant in the implementation of the C-51 Reservoir Project and has completed and moved forward with a wastewater reuse program with projects at its Southwest and Sawgrass WWTPs. There are private wells for irrigation within the City's municipal boundary. By installing a reuse facility and pipeline within the local government area, the City would look to replace the irrigation permits and thereby terminate or reduce the allocation of existing users and claim an applicable offset credit. By extending the reuse pipeline, the City may also have an opportunity to offset potable water use for irrigation with reclaim water there by reducing the per capita. 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 quantification and has not initiated the WUP application for changes related to reclaim water use.

The City has an array of projects underway for the purpose of supplementing its traditional water supply with alternate water supplies. Since 2008, the City has implemented a 2.0 MGD of Floridan Aquifer supply capacity at the Springtree Facility, with a plant capable of producing 1.5 MGD of finished water from the reverse osmosis treatment system. During peak month conditions, the total of the City's existing Biscayne Aquifer allocation and existing Floridan Aquifer supply and treatment infrastructure will be exceeded within the next 5 to 10 years. After implementation and confirming success of the C-51 Reservoir Project, the City will compare the actual costs of the C-51 Reservoir Project and Floridan Aquifer supplies and will increase their alternative water supply facilities accordingly. Also, the City has completed a potable water emergency interconnect with the Town of Davie (connecting with their Floridan aquifer supply source) that could provide a back-up for demand spikes. Other individual AWS project statuses are described below:

6.3.1 Sawgrass Recovery Increase – Conservation Project I

This project was part of the WSFP-2008 and completed on schedule. The City's Sawgrass nanofiltration water plant was constructed and fully operational in 2002. 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 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 CUP, 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 – Conservation Project II

The City pilot tested recovery of nanofiltration concentrate blend with Floridan Aquifer raw water.



Recovery Blend Pilot Project

The City commenced a recovery blend pilot project in November 2008 with a project cost of \$497,000. The intent of the pilot project was to investigate the opportunity for additional treatment of the nano-filtration concentrate with a blend of highly brackish Floridan water using reverse osmosis technology in an effort to capture additional water from the waste stream prior to deep well injection. This process was envisioned to extract up to an additional 2 MGD from the reject stream for potable use. The RO pilot system study was completed in December 2009. The result of the study determined that the blending of brackish water with nano-membrane reject caused premature fouling and required excessive cleaning of the RO membrane treatment unit. These operational challenges were determined to be too significant for this process to be implemented at full scale, compared to other alternatives.

Ion Exchange Project

The City explored the potential for an alternative conservation project using ion exchange treatment of Biscayne raw water with the goal to save an additional raw water. On February 25, 2011 the City authorized design engineers to conduct bench scale testing and develop the Basis of Design (BODR) for the ion exchange project. In April 2011, design engineers reported that due to high iron content in the raw water from the Sawgrass wellfields, a pretreatment step was necessary prior to the ion exchange process. In 2017, the City decided to initiate design of the Sawgrass ion exchange project proposed in 2011, but limiting capacity to half the capacity of the originally envisioned two phased, 6 MGD build out capacity. This project provides ion exchange of a 3 MGD side stream that will blend with membrane softened water, which aims to reduce the cost to approximately \$7 million. This project is being constructed and undergoing testing in December 2019. The project provides enhanced water quality by retaining sufficient hardness and alkalinity in the treated 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 about 0.4 MGD of finished water will be conserved by this project.

6.3.3 Sawgrass Reverse Osmosis (RO) (Phase I, II, and III)

Floridan Test Wells and RO Treatment Projects

The City installed two (2) Floridan test 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 use of these wells.

Although the City completed design of a reverse osmosis treatment project (3 MGD) on February 25, 2011,the City postponed construction of this expansion since demands reduced and other alternatives appeared to present more cost effective and beneficial potentials (such as the Sawgrass Ion Exchange and the C-51 Reservoir Project).

6.3.4 Sawgrass WTP ASR

The two Floridan Test Wells installed in the Sawgrass International Corporate Park in 2012-13 have the potential to be developed into raw water ASR wells to augment the existing Biscayne



aquifer supply to this facility. Seasonal use would mean recharge during the wet season and withdrawal during the dry season to help meet peak demands. The City is evaluating ASR cycle testing of the Southern Floridan test well, SGF-1 initially to determine performance characteristics. Depending on the results of the cycle testing, the City may consider whether developing an ASR system consisting of one or more of these Floridan wells which can serve this beneficial use as an expanded source available during times of drought.

A project is currently underway which includes a raw water transfer pipeline, ASR pumping systems, control and monitoring systems, and wellhead to convert Floridan well SGF-1 to an ASR well along with associated systems. The raw water main project is currently under construction and is expected to be completed by mid-2020. The wellhead project is under permitting and is expected to be advertised in early-2020

6.3.5 Springtree WTP RO - Phase I

The City supplemented its alternate water supply needs by using the existing ASR well at the Springtree water treatment plant. As part of permit modifications, the City now has Floridan water withdrawal allocation of 2 MGD via the ASR well. The design and bidding of a skid mounted unit was completed in March 2012. This project was completed in April 2014. The ASR to Floridan conversion and RO skid project supplied 1.5 MGD of treated water on an annual average day basis. Due to unfavorable water quality in the well, the RO is currently not in service.

6.3.6 Park City RO – Phase I & Phase II

The City commenced the Park City regional wellfield project, consisting of aquifer testing, on September 19, 2008 with an authorization to design consultants for the design package. The design was completed and in the bidding phase when in October of 2010, the SFWMD allocated Floridan water to the Town of Davie in the vicinity of the Nova educational complex. The SFWMD staff report (for the permit approval) estimated an additional drawdown of 20 (+) feet on the Sunrise Park City Regional Wellfield.

The City became concerned that the combined drawdown from the Davie wells with the City of Sunrise's proposed Park City Floridan wells would have caused the water quality to deteriorate, and such risk was too high to justify the capital investment by city of Sunrise. Thus, the City does not intend to move forward with this project as indicated in Exhibit 12 of the WUP and WSFP–2008.

6.3.7 C-51 Reservoir Project

The C-51 Reservoir Project is a regional water supply project currently being developed privately with intentions for transfer to a water control authority and operation by the South Florida Water Management District through capacity allocation agreements and water use permit allocations. Active participants in this regional project are currently considering the demands and potential opportunity for longer term permit issuances of longer than 20 years for supplementing traditional Biscayne aquifer allocations, and the additional water supply would come from captured and redirected stormwater that would otherwise be pumped to tide. The City remains an active participant in the development and implementation of the C-51 Reservoir Project. Preliminary



investigations into the benefits and costs for this project to assist with addressing its long-term water supply demands appear to be attractive. The City has a Capacity Allocation Agreement with Palm Beach Aggregates, LLC – developer of the C-51 Reservoir Project in Palm Beach County for 5 MGD of C-51 Reservoir Phase 1 storage and has submitted an application for Water Use Permit renewal in order to secure a C-51 Reservoir Project offset to the SFWMD. The application is currently under review by SFWMD.

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 capacity by 0.54 MGD in addition to adding tertiary treatment. The City rehabilitated two of the four existing infiltration basins (ponds) at the Southwest WWTP in a project completed between April 30, 2010 and December 20, 2010.

The size of the upgrade is limited by the ability to percolate water through the infiltration basins. Phase II of the project as indicated in Exhibit 12 of the WUP will not be carried out due to limitation of infiltration rates through existing basins. The upgraded 0.99 MGD plant has been operational since June 2016 producing high level disinfected wastewater which is disposed of via the existing percolation ponds.

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. The City planned and has moved forward with facility improvements for addition of a 2 MGD HLD tertiary facility to produce irrigational quality (IQ) reuse water. This project includes tertiary treatment, storage and high service pumping facilities. Offsite distribution of IQ water is under construction for completion by 2020. The treatment process has a peak capacity of 4 MGD and was completed in early 2019.

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. The City has Capacity Allocation Agreement with Palm Beach Aggregates, LLC and has an application for Water Use Permit renewal in order to secure a C-51 Reservoir Project offset.

Based on data presented in **Figure 6-1**, the City has sufficient capacity in the system to meet the average day demands for approximately the next ten years and no new infrastructure project to meet the future supply need over ten years is anticipated.



6.5 CONSERVATION PROGRAMS

Recognizing that water conservation preserves both the natural resources as well as capital resources; the City of Sunrise is committed to continuing and expanding on 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 over 2,000 community members.
- Water conservation education flyers are stocked at the City Hall information kiosk, posters are hung at each Utility Payment Center, and post 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 monthly 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 who 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, National Night Out, Sunrise Cultural Festival, Sunrise Arts & Crafts Festival, and the Sunrise Back to School Roundup. Toilet leak detection tablets, and toilet tank bags are given out at these events along with print material to promote water conservation.
- The City hosts "Gardening For Wildlife" Workshops to educate residents.

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 selfcanceling nozzle hand watering (Broward County, Florida, Code of Ordinances, Part II, Chapter 36, Section 55).



- 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 need for pesticides. One goal of the program is reduced 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 2019, the City of Sunrise participated in the pilot program for the Residential Irrigation Rebate Program with 55 applicants, 17 site visits and evaluations and 10 residential properties received rebates to upgrade their irrigation systems. The City signed a new agreement in 2020 with the County to implement the Residential Irrigation Rebate Program fully.
 - 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, 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.
- Plant it Forward Program: The City of Sunrise offers a residential beautification and increase tree canopy program with an approved budget of \$40,000 per year (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 "Gardening For Wildlife" Workshops to educate residents. In 2019, a total of 1,193 plants and trees were given to the community at City events and workshops. In addition, 150 "Trees for Wildlife" seedlings were distributed at events throughout the year.
- <u>Rain Sensor Overrides</u> The City of Sunrise Code of Ordinances, 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.
- <u>Automatic Flushing Devices</u> The City of Sunrise has installed automatic water flushing devices at 20 hydrants throughout the City's water distribution system to improve water quality while saving approximately 10 million gallons of water per year. <u>Emergency</u> <u>Interconnects</u> - The City of Sunrise has emergency interconnections with the City of Lauderhill, 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 are \$4.09 per 1,000 gallons used up to 30,000 gallons and \$5.18 per 1,000 gallons used over 30,000 gallons. The commercial water rate is \$4.32 per 1,000 gallons.
- The City is currently working with a financial consultant to develop additional blocks for and further refine the City's rates to include approximately five tiers and continue to promote conservation.

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 has even installed four separate pilot systems to evaluate advertised capabilities of fixed and cellular networked AMI endpoints and associated software. The City is currently completing business case analyses of and preparing to initiate a meter replacement program through a request for proposal process, which would improve the City's accounting of water and allow customers the capability to monitor and further conserve use on their own.

Finally, during this fiscal year, the City of Sunrise has purchased leak detection equipment (sounding devices and correlators) and plans to purchase 20 to 30 additional digital loggers in order to better identify and resolve existing leaks within the City's water distribution system. The City will dedicate three staff members to train, equip and report on progress made in the identification of leaks between the treatment plants and meter points so as to reduce leakage from mains and service lines. These efforts are being taken in addition to implementing one to two community water system replacements (renewing the communities with the oldest or most deteriorated mains where operations staff has the most repeat visits for leak repairs or main and service failures) per year in the City's 5-year Capital Improvement Program. Through these comprehensive leak reduction efforts, the City has been able to reliably reduce its unaccounted-for water under 10% from previous levels which were approaching 15%, but with expectations of reducing these even further as these programs progress 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 city 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 results 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:
 - <u>Toilet rebates</u>: 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 3,700 toilet rebates 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.
 - <u>Low-flow faucet aerators, shower heads, and restaurant pre-rinse spray valves</u>: This incentives 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.
- <u>Ultra-Low Volume Plumbing</u> 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.
- <u>Water Conservation Tips</u> 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:
 - \circ Looking for labels on appliances or equipment with the WaterSense[™] label.
 - Fixing a leak.
 - Shortening your showers.
 - o Going low-flow as stated previously.
 - Turning off the tap while brushing your teeth.



- Testing your toilet tank for any leaks.
- Washing only when you have a full load.
- Throwing tissues in the trash rather than the toilet.
- o Picking plants that require low water or are drought tolerant.
- o Using water-saving drip irrigation for your landscaping.
- Watering your 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 102 gallons per capita per day. This implies a drop in water use rate of 19.6% over last 12 years, majority of which could be resulting from conservation. While conservation is a major factor in the reduction of water usage rate, there are various other factors such as abundant rainfall, lack of consecutive dry seasons, 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.

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 & 2018 LECWSP Update	The reach of the City of Sunrise conservation education and outreach programs is vast. The City reaches customers through the City's website, the utility bill inserts, the <i>Good and</i> <i>Green</i> email newsletter which goes out to over 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 then participate 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.	The City is satisfied with the current level of conservation outreach and education programs and they are in line with the local and reginal 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.

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
		With effective education and outreach, customers are more likely to make better decisions on their own water usage. In the past 12 years, the City has experienced a reduction in per capita consumption from 127 gpcd to 102 gpcd (a 19.6% reduction). The schools outreach and education further promote greater household participation in a water utility's conservation strategy.	
Cost Share Funding Programs – Required by Conservation Goals of the SFWMD, Broward County & 2018 LECWSP Update	The City actively participates, promotes and funds Cost Share programs such as: Conservation Pays for toilets rebates and other conservation tools, NatureScape Irrigation Service Program for free irrigation system evaluation and upgrade rebates, the "Plant it Forward 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.	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 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 water savings are difficult to quantify so a full count of water savings is not available.	The City is satisfied with the current level of cost share programs and they are in line with the local and reginal goals and programs. A recent expansion of these efforts came from the Sustainability Action Plan adopted in 2019 which called for a 10% reduction in potable water consumption by 2022 in the 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 & 2018 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.



Specific District and County Policies or Goals	City of Sunrise Participation Analysis	City of Sunrise Participation Outcome	Recent Updates or Improvements Needed
Consumptive Use Permit (CUP) Requirements	The City of Sunrise has implemented all necessary programs, protocols, provisions and reporting required to meet all CUP 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 water use conservation plan, development of alternative water supply and wastewater reuse.	 The City of Sunrise complies with all CUP conditions for water conservation and water accountability. The City of Sunrise has developed a Standard Water Conservation Plan which complies with the requirements of the District. The requirements per the District's Applicant's Handbook include: A water conservation public education program An outdoor water use conservation program The selection of a rate structure designed to promote the efficient use of water by providing economic incentives A water loss reduction program, if water losses exceed 10% An indoor water conservation program 	In 2019, the City of Sunrise participated in the NIS pilot program for residential units with 55 applicants, 17 site visits and evaluations and 10 residential properties received rebates to upgrade their irrigation systems. The City signed a new agreement in 2020 with the County to implement the Residential Irrigation <u>Rebate Program fully.</u> No improvements or updates are required since all CUP 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 CUP 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 is targeting large users with private irrigation wells or pumps near the City's Biscayne Aquifer wellfields.

6.7 INTERGOVERNMENTAL COORDINATION

In preparation of this document, coordinated with a number of governmental agencies, hence that the findings and conclusions of this Plan are the result of information exchange and an understanding of the implications associated with this Plan. Specifically, staff from the City's Planning and Utilities Department met with the South Florida Water Management District, Broward County, the Town of Davie, the City of Weston and the Town of Southwest Ranches. Through these meetings, we jointly developed the population projections and water demand projections upon which this Plan is based; furthermore, we established 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 by having Assistant Deputy Mayor Neil C. Kerch be an alternate board member. The Deputy Mayor and Utilities Director actively participate in the board meetings. The Utilities Director also serves as a member of the Boards 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. The City of Sunrise's Assistant Director served on the board as Chairperson in 2014, and the City of Sunrise's Plant Operations Engineer served on the board as Chairperson in 2017. SEFLUC is heavily involved in matters related to regional water management issues such as legislation, projects funding, and planning. During the 2017-2018 Lower East Coast Plan development efforts, SEFLUC hosted meetings with the SFWMD staff for



coordination and membership input. Other professional groups related to water supply include 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 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 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 consensus of the local government representatives was that the most recent 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 and no further discussions were required unless changes in the items discussed arose 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

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

<u>City of Weston</u> – 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 entered into for a term of thirty (30) years and is set to expire on June 30, 2023, with such agreement being automatically renewed for an additional term of thirty (30) years unless ITCDD notifies the City five years in advance of its intent to not renew the agreement.

The City also provides retail service to the remainder 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 to operate this component of the utility in the municipal boundaries of the City of Weston.

<u>Town of Davie</u> – the City provides water and wastewater service to the western portion of the Town of Davie ("Davie") on a retail basis. Pursuant to 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. Subsequent to 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 purchased the South Broward Utility, Inc. water and wastewater system (the "SBU System") a portion of which system was located in the Town of Southwest Ranches.

<u>Town of Southwest Ranches</u> – 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; subsequent to the purchase, the Town of Southwest Ranches became incorporated. Since the City owned the SBU System and provided retail water service to such customers prior to 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.

<u>Park City</u> – the City purchased the privately owned Pine Island Utilities Corporation water and wastewater system in 1974. The area served by such 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 CUPs and substitute them with reuse water. The retired CUPs could be transferred to the City's Biscayne wells with a substitution credit (volumes for credit is to be determined as part of the application process) that results in alternative water supply for the City without impacting the regional system. The City has completed construction of 1 MGD of reuse water at Southwest WWTP as well as completed the construction of 4 MGD of reuse facility at Sawgrass WWTP.

The City also anticipates participating in the C-51 Reservoir Project for additional alternative water supply. The schedule for construction and commissioning the first phase of the reservoir is



dependent on factor outside the control of the City, but likely to occur within the 10-year planning horizon.

The City is financially prepared to develop it reuse water system and participate in C-51 Reservoir Project as the demands materialize.

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 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 127 102 gallons per person per day. (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 110 <u>93</u> 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, <u>prepared by Stantec Consulting Services</u>, Inc., dated January 2015 <u>2020</u>, 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 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 <u>110</u> <u>93</u> 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 <u>127102</u> 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 fifty (50) year population projections 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 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 uses (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).
- 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).

<u>REUSE</u>

- 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 2040.

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 as follows from 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 are preparing to deliver beneficial wastewater reuse projects and participate in the C-51 Reservoir Project to make up any 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. We have prepared this Plan as per State and regional coordination requirements specifically, as per the South Florida Water Management District's 2017 regional Lower East Coast Water Supply Plan, and local governments are required to update and adopt their Water Supply Facilities Work Plan by May 2020, and attendant updates to local Comprehensive Plans accordingly.



In preparing this Plan, the water supply and demand projections were formulated through assessment of population growth projections and anticipated water demand. The projections were matched 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 if desired for the next five years. It is a plan that satisfies the requirements of its Consumptive 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 actually needed.

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

	2020	2025	2030	2040
Population Served	231,300	238,000	244,600	273,100
Average Daily Demand (Finished) (MGD) ¹	23.6	24.3	24.9	27.9
Demand per Capita Finished (GPCD)	102	102	102	102
Available Facility Capacity (MGD)	51.5	51.5	51.5	51.5
Facility Capacity Surplus (Deficit) ²	27.9	27.2	26.6	23.6
Anticipated Permitted Amount (MGD Annual Avg.) ³	31.09	31.09	31.09	31.09
Anticipated Permitted Surplus MGD (Deficit) ⁴	4.47	3.82	3.11	0.20

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

¹MGD = Million Gallons per Day

² Calculated by subtracting Average Daily Demand from Available Facility Capacity

³ Calculated as treated water by subtracting Average Daily Demand and additional DRI demand (as of December 2007) from Permitted Amount

⁴The currently permitted raw water amount is 29.09 MGD. The City has applied for Consumptive Use Permit for C-51 Reservoir Project allocation. For the purpose of this calculation, existing Biscayne Aquifer allocation is at 29.09 MGD and Floridan Aquifer is at 2 MGD. Additional water demands will be met by implementing reuse, C-51 Reservoir Project source supply associated credits, and additional permitted withdrawal from Floridan Aquifer. (Source: Computed by Stantec, 2019)

 Table 6-4. City of Sunrise, Alternative Water Supply Project Capital Costs

 (No Capital is Currently Required for Alternative Water Supply Projects)

	Expenditure ¹ (In Millions of Dollars)							
Project Name	Funding Source	2020	2021	2022	2023	2024	Five Year Totals	
C-51 Reservoir Project	BP ²	-	-	-	-	-	-	
Sunrise Golf Course Reuse Main Extension	Fund 465	2.257	-	-	-	-	2.257	
Reuse Distribution System – SICP,	Fund 465	-	-	-	-	-	-	

10-YEAR WATER SUPPLY FACILITIES WORK PLAN – 2020 UPDATE

Sawgrass Mills & Artesia (Phase II)							
Reuse Distribution System – SICP, and Markham Park (Phase III)	Fund 465	-	-	-	0.2	9.66	9.86
SGF-1 Aquifer Storage and Recovery conversion	Fund 465	-	-	0.095	0.173	0.173	0.441
Springtree Floridan Supply Well	Fund 465	-	-	0.025	0.025	0.025	0.075

Source: Adopted Five-Year Capital Improvement Program – Fiscal Year 2019/2020
 Bond Proceeds
 (Source: City of Sunrise, 2019)



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



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



Appendix C WATER SUPPLY SYSTEM INTERCONNECTIONS



Appendix D SUNRISE UTILITY SERVICE AREA POPULATION PROJECTIONS BY TAZS



Appendix E INTERGOVERNMENTAL MEETING MINUTES



Appendix F CITY OF SUNRISE WELL DESCRIPTIONS



Appendix G CITY OF SUNRISE UNINCORPORATED PROPERTIES



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



CITED FLORIDA STATUTE PROVISIONS (RELEVANT PORTIONS ONLY)

Source: Chapter 163, Part II, Florida Statutes (2019) – 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 shall 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:

- 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 shall 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.

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 5-year period occurring after the plan's adoption and one covering at least a 10-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 shall 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 shall address coordinating the extension of, or increase in the capacity of, facilities to meet future needs 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 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 shall 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 shall be updated, at a minimum, every five 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.

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, water wells, 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 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.

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 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.

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

163.3191(3): Local governments are encouraged to comprehensively evaluate and, as necessary, update comprehensive plans to reflect changes in local conditions. Plan amendments transmitted pursuant to this section shall be reviewed pursuant to s. 163.3184(4).

163.3191(4): If a local government fails to submit its letter prescribed by subsection (1) or update its plan pursuant to subsection (2), it may not amend its comprehensive plan until such time as it complies with this section.

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.

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
	10400 N W 44TH ST	115	Irrigation	Biscayne Aquifer
	24 HOUR FITNESS	100	Irrigation	Biscayne Aquifer
	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
	A M L I SAWGRASS VILLAGE	60	Irrigation	Biscayne Aquifer
	ABC FINE WINE AND SPIRITS	50	Irrigation	Biscayne Aquifer
	ADVANCE AUTO PARTS	55	Irrigation	Biscayne Aquifer
	ADVANCED AUTO PARTS LANDSCAPE IRRIGATION WELL	55	Irrigation	Biscayne Aquifer
	AGING & DISABILITY RESOURCE CENTER OF BROWARD	50	Irrigation	Biscayne Aquifer
	AMERICAN EXPRESS SUNRISE CORPORATE CENTER AMERICAN EXPRESS SUNRISE CORPORATE CENTER	55 55	Industrial	Biscayne Aquifer
	ARAGON	75	Industrial Irrigation	Biscayne Aquifer Biscayne Aquifer
	ARC OF BROWARD	95	Irrigation	Biscayne Aquifer
	AUTOMATIC ENTRANCES INC	55	Irrigation	Biscayne Aquifer
	AUTOZONE NO 4851	75	Irrigation	Surficial Aquifer System
	BENNETT, SAWGRASS, PARK LAKES ELEM/CHARLES DREW FAMILY RESOU	120	Irrigation	Biscayne Aquifer
	BROWARD LAKES BUSINESS PARK	95	Irrigation	Surficial Aquifer System
	CAPITOL HILL DEVELOPMENT	120	Irrigation	Biscayne Aquifer
	CHASE BANK - OAKLAND PARK & NOB HILL	35	Irrigation	Biscayne Aquifer
06-04867-W	CHICK-FIL-A @ SAWGRASS SQUARE SHOPPING CENTER	45	Irrigation	Biscayne Aquifer
	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
		2100 2100	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE CITY OF SUNRISE	2100	Public Water Supply Public Water Supply	Biscayne Aquifer Biscayne Aquifer
	CITY OF SUNRISE	2100	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
	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
	CITY OF SUNRISE	1050	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1400	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	0	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	2600	Public Water Supply	Biscayne Aquifer
		0	Monitoring	Biscayne Aquifer
		1000 2100	Monitoring Monitoring	Biscayne Aquifer
	CITY OF SUNRISE CITY OF SUNRISE	2100	Monitoring	Biscayne Aquifer Biscayne Aquifer
	CITY OF SUNRISE	2600	Monitoring	Biscayne Aquifer
	CITY OF SUNRISE	1000	Monitoring	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
06-00120-W	CITY OF SUNRISE	0	Monitoring	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1000	Public Water Supply	Biscayne Aquifer
	CITY OF SUNRISE	1400	Public Water Supply	Floridan Aquifer System
	CITY OF SUNRISE	0	Public Water Supply	Floridan Aquifer System
06-00120-W	CITY OF SUNRISE	2100	Public Water Supply	Floridan Aquifer System
		2100	Public Water Supply	Floridan Aquifer System
06-00120-W		1400		Floridan Aquifer System
06-00120-W 0 06-00120-W 0	CITY OF SUNRISE	1400	Monitoring	
06-00120-W 06-00120-W 06-04318-W	CITY OF SUNRISE CITY PARK	100	Irrigation	Biscayne Aquifer
06-00120-W 0 06-00120-W 0 06-04318-W 0 06-04318-W 0	CITY OF SUNRISE CITY PARK CITY PARK	100 100	Irrigation Irrigation	Biscayne Aquifer Biscayne Aquifer
06-00120-W 0 06-00120-W 0 06-04318-W 0 06-04318-W 0 06-04318-W 0	CITY OF SUNRISE CITY PARK CITY PARK CITY PARK CITY PARK	100 100 100	Irrigation Irrigation Irrigation	Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer
06-00120-W 0 06-00120-W 0 06-04318-W 0 06-04318-W 0 06-04318-W 0 06-05193-W 0	CITY OF SUNRISE CITY PARK CITY PARK CITY PARK CITY PARK CITY PARKS AND FACILITIES TENNIS CNTR ROARKE HALL	100 100 100 210	Irrigation Irrigation Irrigation Irrigation	Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer
06-00120-W (06-00120-W (06-04318-W (06-04318-W (06-04318-W (06-04318-W (06-05193-W (06-02601-W (CITY OF SUNRISE CITY PARK CITY PARK CITY PARK CITY PARK CITY PARKS AND FACILITIES TENNIS CNTR ROARKE HALL CLASS A PHASE III	100 100 210 85	Irrigation Irrigation Irrigation Irrigation Irrigation	Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer
06-00120-W 0 06-00120-W 0 06-04318-W 0 06-04318-W 0 06-04318-W 0 06-05193-W 0 06-02601-W 0 06-02334-W 0	CITY OF SUNRISE CITY PARK CITY PARK CITY PARK CITY PARKS AND FACILITIES TENNIS CNTR ROARKE HALL CLASS A PHASE III COASTAL GASOLINE STATION	100 100 210 85 55	Irrigation Irrigation Irrigation Irrigation Irrigation Irrigation	Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer
06-00120-W 0 06-00120-W 0 06-04318-W 0 06-04318-W 0 06-04318-W 0 06-05193-W 0 06-02501-W 0 06-02334-W 0 06-01714-W 0	CITY OF SUNRISE CITY PARK CITY PARK CITY PARK CITY PARK CITY PARKS AND FACILITIES TENNIS CNTR ROARKE HALL CLASS A PHASE III	100 100 210 85	Irrigation Irrigation Irrigation Irrigation Irrigation	Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer Biscayne Aquifer

PERMUT NO. PROJECT NAME PUMP CAPACITY(gm) WATER USE SOURCE 05:03337.W COWCAT ENTERPRISES INC 30 Irrigation Biscorre Aquifer 06:03267.W DAUE SANDA UTO STORAGE WAREHOUSE 45 Irrigation Biscorre Aquifer 06:0327.W CEXERDS COMMERCIAL BOULEYARD AND NON BHILL ROAD 150 Irrigation Biscorre Aquifer 06:0323.W ECEMENDS COMMERCIAL BOULEYARD AND NON BHILL ROAD 200 Irrigation Biscorre Aquifer 06:0353.W ELEMENTARY SCHOOL A 230 Irrigation Biscorre Aquifer 06:03679.W EXONC CONFENDENCE CENTR 60 Irrigation Biscorre Aquifer 06:03679.W EXONC CONFENDENCE CENTR 100 Irrigation Biscorre Aquifer 06:0371.W ELEMENTARY SCHOOL SUNSE 110 Irrigation Biscorre Aquifer 06:0371.W ELEMENTARY SCHOOL SUNSE 100 Irrigation Biscorre Aquifer 06:0371.W ELEMENTARY SCHOOL SUNSE 100 Irrigation Biscorre Aquifer 06:0372.W HOUDING SOF SUNNISE 100 Irrigation	
06-0326-7W DAUE AUTO STORAGE WAREHOUSE 45 Irrigation Biscryne Aquifer 06-03273-W ECKERDS COMMERCIA. BOULEYARD AND NOB HILL ROAD 150 Irrigation Biscryne Aquifer 06-0122-W ECKERDS COMMERCIA. BOULEYARD AND NOB HILL ROAD 200 Irrigation Biscryne Aquifer 06-0523-W ELEMENTARY SCHOLA 230 Irrigation Biscryne Aquifer 06-05353-W ELEMENTARY SCHOLA 200 Irrigation Biscryne Aquifer 06-03625-W F. & SUNRISCE LTD 100 Irrigation Biscryne Aquifer 06-03628-W F. ROT CONST ENGY RINGACTION WELL 40 Irrigation Biscryne Aquifer 06-03628-W F.ROT CONST ENGY RINGACTION WELL 40 Irrigation Biscryne Aquifer 06-0739-W H BO LATIN AMERICA GOUV PATA CENTER 45 AT Conditioning Biscryne Aquifer 06-0739-W H BO LATIN AMERICA RODUCTON SERVICS 10 AT Conditioning Biscryne Aquifer 06-0310-W H BO LATIN AMERICA RODUCTON SERVICS 10 AT Conditioning Biscryne Aquifer 06-0312-W H BO LATIN AMERICA RODUC	
96-0273-W DON DESN TIRE AND AUTO 84 Irrigation Biscayne Aquifer 96-0273-W ECRENDS COMMERCIAL BOULEYADD AND NOB HIL ROAD 150 Irrigation Biscayne Aquifer 96-0538-W EDGEVOOD, LLOYD ESTATES, WELLERY ELEM 200 Irrigation Biscayne Aquifer 96-0538-W EDKENDCON, CONVENIENCE CENTER 60 Irrigation Biscayne Aquifer 96-0308-W EXCOND CONVENIENCE CENTER 60 Irrigation Biscayne Aquifer 96-0308-W ENDION CONVENIENCE CENTER 40 Irrigation Biscayne Aquifer 96-0308-W IRRST COAST ENERGY IRRIGATION WELL 40 Irrigation Biscayne Aquifer 96-0308-W FERNSINGS OF SUNNES 70 Irrigation Biscayne Aquifer 96-0303-W HE BOL ATIN AMERICA PRODUCTION SERVES 10 Ar Conditioning Biscayne Aquifer 96-0303-W HE BOL ATIN AMERICA PRODUCTION SERVES 10 Ar Conditioning Biscayne Aquifer 96-0303-W HE BOL ATIN AMERICA PRODUCTION SERVES 10 Frigation Biscayne Aquifer 96-03032-W HE BOL XTIN AMERICA PRODUCTION	
06-0922-W ECKEDS COMMERCAL BOULEVARD AND ND HILL ROAD 150 Irrigation Biscayne Aquifer 06-0512-W EDGEWOOD, LOP STATTS, WILLEW ELEM 200 Irrigation Biscayne Aquifer 06-0538-W ELEMENTARY SCHOL A 230 Irrigation Biscayne Aquifer 06-0538-W ELEMENTARY SCHOL A 100 Irrigation Biscayne Aquifer 06-0303-W F & RUNNISE LTD 100 Irrigation Biscayne Aquifer 06-0303-W F RATE CONFERCENT ENGEV RENEATION WELL 40 Irrigation Biscayne Aquifer 06-0303-W F RANKUN ACADEAN' DISCOVERY SCHOOLS SUNRISE 110 Irrigation Biscayne Aquifer 06-0303-W F ROL ATIN AMERICA PRODUCTION SERVICS 10 Air Conditioning Biscayne Aquifer 06-0303-W H BOL ATIN AMERICA PRODUCTION SERVICS 100 Irrigation Biscayne Aquifer 06-0302-W H ROL XIN MARICA PRODUCTION SERVICS 100 Irrigation Biscayne Aquifer 06-0302-W HAD LTIN AMERICA PRODUCTION SERVICS 100 Irrigation Biscayne Aquifer 06-0302-W HAD LTIN AMERICA PRODUC	
06-0512-W EDGEWOOD, LOVD ESTATES, WELLEBY ELEM 200 irrigation Biscayne Aquifer 06-05538-W ELKMENTAY SCHOOL A 230 irrigation Biscayne Aquifer 06-05538-W ELKMENTAY SCHOOL A 200 irrigation Biscayne Aquifer 06-05638-W FR ST SURGER 60 irrigation Biscayne Aquifer 06-05638-W FRANCUA ACADEMY DISCOVERY SCHOOLS SUNRISE 100 irrigation Biscayne Aquifer 06-07031-W FRANKLIM ACADEMY DISCOVERY SCHOOLS SUNRISE 100 irrigation Biscayne Aquifer 06-07131-W FRANKLIM ACADEMY DISCOVERY SCHOOLS SUNRISE 10 irrigation Biscayne Aquifer 06-07131-W HE OL LATIN AMERICA GROUP DATA CENTER 45 Air Conditioning Biscayne Aquifer 06-0308-W HEALTH SOUTH 70 irrigation Biscayne Aqu	
06-0367-W EXX00 CONVENIENCE CENTER 60 Irrigation Biscayne Aquifer 06-03085-W F& B SUNREGATION WELL 40 Irrigation Biscayne Aquifer 06-03085-W FLORIDA POWER AND LIGHT WELLERY SUBSTATION 25 Irrigation Biscayne Aquifer 06-03081-W FLORIDA POWER AND LIGHT WELLERY SUBSTATION 25 Irrigation Biscayne Aquifer 06-07391-W FRANKLIM ACADEMY - DISCOVERY SCHOOLS JUNRISE 110 Irrigation Biscayne Aquifer 06-07391-W FRANKLIM ACADEMY - DISCOVERY SCHOOLS JUNRISE 10 Air Conditioning Biscayne Aquifer 06-03081-W HB O LATIN AMERICA SROUD DATA CENTER 45 Air Conditioning Biscayne Aquifer 06-03082-W HIATUS BO SUNRISE BUD TO OAKLAND PARK BLVD 100 Irrigation Biscayne Aquifer 06-03082-W HIATUS BO SUNRISE BUD TO OAKLAND PARK BLVD 100 Irrigation Biscayne Aquifer 06-05302-W HIATUS BO SUNRISE BUD TO OAKLAND PARK BLVD 100 Irrigation Biscayne Aquifer 06-05302-W HIATUS BO SUNRISE BUD TO OAKLAND PARK BLVD 100 Irrigation Biscayne Aquifer	
06-0308-W F. & E. SUNRISE LTD 100 Irrigation Biscayne Aquifer 06-05672-W FINST COAST ENREGY IRRIGGATION WELL 40 Irrigation Biscayne Aquifer 06-07621-W FRANKLIN ACADEMY - DISCOVERY SCHOOLS SUNRISE 110 Irrigation Biscayne Aquifer 06-07083-W FRANKLIN ACADEMY - DISCOVERY SCHOOLS SUNRISE 10 Air Conditioning Biscayne Aquifer 06-07039-W H BO LATIN AMERICA PRODUCTION SERVICS 10 Air Conditioning Biscayne Aquifer 06-07039-W H BO LATIN AMERICA PRODUCTION SERVICS 10 Air Conditioning Biscayne Aquifer 06-03032-W H BOL ATIN AMERICA PRODUCTION SERVICS 100 Irrigation Biscayne Aquifer 06-03032-W HADL XIN SERVICT O OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-03032-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-03032-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-03239-W HOPCO CENTREY REPORCHUDREN WITH DEVELOPMENT DISABILITES 50 Irrigation <td></td>	
05-0672-W FIRST COAST ENREGY IRRIGATION WELL 40 Irrigation Bicayne Aquifer 06-03889.W FLORIDA POWER AND UIGHT WELLEY SUBSTATION 25 Irrigation Bicayne Aquifer 06-07081-W FRANKLIN ACADEMY - DISCOVERY SCHOOLS SUNRISE 110 Irrigation Bicayne Aquifer 06-07133-W GENESS HOLDINGS OF SUNRISE 70 Irrigation Bicayne Aquifer 06-07133-W HS O LATIN AMERICA GROUP DATA CENTER 45 Air Conditioning Bicayne Aquifer 06-03084-W HAD LATIN AMERICA GROUP DATA CENTER 10 Air Conditioning Bicayne Aquifer 06-03084-W HALTIN SDUTH 70 Irrigation Bicayne Aquifer 06-03084-W HATUS RD (SUNRISE BLVD TO CAKLAND PARK BLVD) 100 Irrigation Bicayne Aquifer 06-04024-W HATUS RD (SUNRISE BLVD TO CAKLAND PARK BLVD) 100 Irrigation Bicayne Aquifer 06-05039-W HADCO CENTER FOR CHILDERN WITH DEVELOPMENT DISABILITIES 50 Irrigation Bicayne Aquifer 06-05279-W IACCO CENTER FOR CHILDERN WITH DEVELOPMENT DISABILITIES 50 Irrigation Bicayne Aquifer <td></td>	
96-03498-W FLODIDA POWER AND UGHT WELLER'S UBSTATION 25 Integration Biscayne Aquifer 06-07081-W FRANKLIN ACADEMY - DISCOVERY SCHOOLS SUNRISE 110 Irrigation Biscayne Aquifer 06-07033-W GENISSI HOLDINGS OF SUNRISE 70 Irrigation Biscayne Aquifer 06-07039-W H BO LATIN AMERICA RODUROTON SERVICS 10 Air Conditioning Biscayne Aquifer 06-07039-W H BO LATIN AMERICA RODUROTON SERVICS 10 Air Conditioning Biscayne Aquifer 06-03032-W H HATU SR D(SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-03402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-063402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-063402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-06378-W HAPCE PARCEL 2 B So Irrigation Biscayne Aquifer 06-06578-W IACCO CENTER ROC HILDERN WITH DEVELOPMENT DISABILITES SO Irrigation Biscayne	
06-07031-W ERANKLIN ACADEMY-DISCOVERY SCHOOLS SUNRISE 110 Irrigation Biscayne Aquifer 06-07133-W GENESIS HOLINGS OF SUNRISE 70 Irrigation Biscayne Aquifer 06-03162-W H8 D LATIN AMERICA GROUP DATA CENTER 45 Air Conditioning Biscayne Aquifer 06-03162-W H8D LATIN AMERICA PRODUCTION SERVICS 10 Air Conditioning Biscayne Aquifer 06-03084-W HEALTH SOUTH 70 Irrigation Biscayne Aquifer 06-03084-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-06935-W HOPCO 50 Irrigation Biscayne Aquifer 06-06932-W HONAN TRACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-06937-W INDAN TRACE PARCEL 2 B 70 Irrigation Biscayne Aquifer 06-062721-W KENTUCKY FRIED CHICKEN 55 Irrigation Biscayne Aquifer 06-062721-W KENTUCKY FRIED CHICKEN 55	
06-0713-W ENESS 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 GROUP DATA CENTER 10 Air Conditioning Biscayne Aquifer 06-03084-W HEALTH SOUTH 70 Irrigation Biscayne Aquifer 06-03402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05578-W LAFC CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES 50 Irrigation Biscayne Aquife	
D5-0729-W HB 0 LATIN AMERICA GROUP PATA CENTER 45 Arr Conditioning Biscayne Aquifer 06-03162-W HBC LATIN AMERICA PRODUCTION SERVICS 10 Air Conditioning Biscayne Aquifer 06-03084-W HEALTIS SOUTH 70 Irrigation Biscayne Aquifer 06-03082-W HATUS RD (SUNRISE BUX TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BUX TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05402-W HATUS RD (SUNRISE BUX TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05279-W INDIAN TRACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-062579-W INDIAN TRACE PARCEL 2 B 70 Irrigation Biscayne Aquifer 06-062579-W IACO CENTER FOR CHILDEN WITH DEVELOPMENT DISABILITIES 50 Irrigation Biscayne Aquifer 06-04256-W LA-2-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02579-W LONGSTAR TEXACO 40 Irrigation Surfcial Aquifer 06-03570-W LOS-BOY SHOWROOM<	
96-93162-W HBO LATIN AMERICA PRODUCTION SERVICS 10 Air Conditioning Biscayne Aquifer 06-03084-W HEALTH SOUTH 70 Irrigation Biscayne Aquifer 06-03082-W HIATUS KD [SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-03402-W HIATUS KD [SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-03530-W HOPCO S0 Irrigation Biscayne Aquifer 06-03537-W HOPCO S0 Irrigation Biscayne Aquifer 06-05279-W INDIAN TRACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-05279-W IAPCO CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES S0 Irrigation Biscayne Aquifer 06-04862-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-04862-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-02754-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-03672-W LONSTAR TEXACO 40 Irrigation 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 06-05457-W HOPCO ACANAD PARK BLVD) 100 Irrigation Biscayne Aquifer 06-05272-W HOPCO ACANAD PARK BLVD) 100 Irrigation Biscayne Aquifer 06-06272-W KENTUCKY FRIED CHICKEN FILE FILE<	
B6-63622-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 06-06372-W HIATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-06373-W HOPCO SO Irrigation Biscayne Aquifer 06-06373-W HOPCO SO Irrigation Biscayne Aquifer 06-06373-W INDIAN TAACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-06372-W INDIAN TAACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-02732-W KENTUCKY FRIED CHICKEN 55 Irrigation Biscayne Aquifer 06-02783-W LA-S BOTSAW 55 Irrigation Biscayne Aquifer 06-02784-W LA-S BOTSAWADMOM 55 Irrigation Biscayne Aquifer 06-02754-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-03602-W LUSH PROPERTIES 60 Irrigation Biscayne Aquifer 06-03677-W MCDONALO'S RESTAURANT AT PUBLIX AND SUNRISE WEST 27 Irrigation Biscayne Aquifer 06-04655-W MCRAPIPCA 80 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 06-05293-W HOPCO REST 50 Irrigation Biscayne Aquifer 06-05273-W INDIAN TRACE PARCEL 2.B 75 Irrigation Biscayne Aquifer 06-02721-W KENTUCKY FRIED CHICKEN S5 Irrigation Biscayne Aquifer 06-02721-W KENTUCKY FRIED CHICKEN S5 Irrigation Biscayne Aquifer 06-02782-W LAZ-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02783-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-02784-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-03657-W MCDONALD'S RESTAURANT AT PUBLIX AND SUNRISE WEST 27 Irrigation Biscayne Aquifer 06-04515-W MRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-04515-W MRROR LAKE, LAUDERHILL PT, NOB HILL, H	
06-06402-W HATUS RD (SUNRISE BLVD TO OAKLAND PARK BLVD) 100 Irrigation Biscayne Aquifer 06-06935-W HOPCO 50 Irrigation Biscayne Aquifer 06-06935-W INDIAN TRACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-06578-W IAFCO CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES 50 Irrigation Biscayne Aquifer 06-064862-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-02728-W LAZ-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02788-W LAZ-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02784-W LAZ-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02602-W LONGSTAR TEXACO 40 Irrigation Surficial Aquifer 1 06-03677-W MCDONALD'S RESTAURAN AT PUBLIX AND SUNRISE WEST 27 Irrigation Biscayne Aquifer 06-046502-W METROPICA 80 Irrigation Biscayne Aquifer 06-04557-W MCORALAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation <	
D6-06935-W HOPCO 50 Irrigation Biscayne Aquifer 06-05279-W INDIAN TACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-05273-W IAFCO CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES 50 Irrigation Biscayne Aquifer 06-04578-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-04862-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-02788-W LAS-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02789-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-03607-W LONGPRETTES 60 Irrigation Biscayne Aquifer 06-03677-W MCDONALD'S RESTAURANT AT PUBLIX AND SUNRISE WEST 27 Irrigation Biscayne Aquifer 06-0455-W MRRRO RUKE, LAVE, LAUDERHILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-0455-W MRCAR WASH 55 Irrigation Biscayne Aquifer 06-0455-W MRCAR WASH 50 Irrigation Biscayne Aquifer <	
D6-05279-W INDIAN TRACE PARCEL 2 B 75 Irrigation Biscayne Aquifer 06-05579-W JAFCO CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES 50 Irrigation Biscayne Aquifer 06-062721-W KENTUCKY FRIED CHICKEN 55 Irrigation Biscayne Aquifer 06-02862-W LAS BRISAS 70 Irrigation Biscayne Aquifer 06-02788-W LA-Z-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02854-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-02954-W LONGSTAR TEXACO 40 Irrigation Sufcial Aquifer 1 06-03677-W MCOONALD'S RESTAURANT AT PUBLIX AND SUNRISE WEST 27 Irrigation Biscayne Aquifer 06-04362-W MEROPICA 80 Irrigation Biscayne Aquifer 06-04362-W MEROPICA 80 Irrigation Biscayne Aquifer 06-04362-W MEROPICA 80 Irrigation Biscayne Aquifer 06-0452-W MIRCON LAKE, AUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-0455-W MORE 75 Irrigation Biscayne Aquifer 06-0455-W NEGHBORHODO KIDS OF WELLEBY 50 Irrigation Biscayne Aquifer <	
06-06578-W JAFCO CENTER FOR CHILDREN WITH DEVELOPMENT DISABILITIES 50 Irrigation Biscayne Aquifer 06-02212-W KENTUCKY FRIED CHICKEN 55 Irrigation Sufcial Aquifer 06-02252-W LAS BRISAS 70 Irrigation Sufcial Aquifer 06-02788-W LAZ-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02954-W LONGSTAR TEXACO 40 Irrigation Sufcial Aquifer 06-02600-W LUSH PROPERTIES 60 Irrigation Sufcial Aquifer 06-06307-W MCTDONALD'S RESTAURANT AT PUBLIX AND SUNRISE WEST 27 Irrigation Biscayne Aquifer 06-064716-W MIRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-042515-W MORSE MORSE 55 Irrigation Biscayne Aquifer 06-042547-W NEIGHBORHOOD KIDS OF WELLEBY 55 Irrigation Biscayne Aquifer 06-042547-W NEIGHBORHOOD KIDS OF WELLEBY 50 Irrigation Biscayne Aquifer 06-042547-W NEXTE LAZGA & WEST SUNRISE 60 <td></td>	
06-02721-W KENTUCKY FRIED CHICKEN 55 Irrigation Biscayne Aquifer 06-02782-W LAS BRISAS 70 Irrigation Surficial Aquifer 06-02783-W LAX-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02783-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-02787-W LONGSTAR TEXACO 40 Irrigation Surficial Aquifer 06-03677-W MCDOMALD'S RESTAURANT AT PUBLIX AND SUNRISE WEST 27 Irrigation Surficial Aquifer 06-06923-W METROPICA 80 Irrigation Biscayne Aquifer 06-04716-W MIRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-04555-W MR CAR WASH 55 Irrigation Biscayne Aquifer 06-04555-W MR CAR WASH 50 Irrigation Biscayne Aquifer 06-04555-W MR CAR WASH 50 Irrigation Biscayne Aquifer 06-04558-W NEGHBORHOD KIDS OF WELLEBY 50 Irrigation Biscayne Aquifer 06-04518-W NEXTEL 2676A - WEST SUNRISE 60 Irrigation Biscayne Aquifer 06-04518-W NOB HILL BUSINESS PLAZA 50 Irrigation Biscayne Aquifer <td< td=""><td></td></td<>	
06-04862-W LAS BRISAS 70 Irrigation Surficial Aquifer 06-02788-W LA-Z-BOY SHOWROOM 55 Irrigation Biscayne Aquifer 06-02788-W LONGSTAR TEXACO 40 Irrigation Biscayne Aquifer 06-02650-W LUSH PROPERTIES 60 Irrigation Surficial Aquifer 06-06500-W LUSH PROPERTIES 60 Irrigation Surficial Aquifer 06-06500-W MCETROPICA 80 Irrigation Biscayne Aquifer 06-06500-W METROPICA 80 Irrigation Biscayne Aquifer 06-04716-W MIRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-04716-W MIRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-04716-W MIRROR LAKE, LAUDERHILL PT, NOB HILL, HORIZON ELEM/PLANTATIO 150 Irrigation Biscayne Aquifer 06-04755-W MORSE MCR KAG WASH 55 Irrigation Biscayne Aquifer 06-02542-W NEGHBORHOOD KIDS OF WELLEBY 50 Irrigation Biscayne Aquifer 06-02383-W NEW RYER CENTRE 75 Irrigation Biscayne Aquifer 06-02382-W NOB FILL BUSINESS PLAZA 50 <td></td>	
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06-01296-W PIPER HIGH 150 Irrigation Surficial Aquifer S 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	
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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	system
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	
06-02622-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	
06-02622-W SANDPIPER COVE 40 Irrigation Biscayne Aquifer	
SANDPIPER, BANYAN, CHALLENGER, PINEWOOD, 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 S	
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 S	-
06-07024-W SPARKLING IMAGE CAR WASH (FKA SIMONIZ CAR WASH-SUNRISE BLVD) 60 Irrigation Surficial Aquifer S	
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	
06-05374-W SPRINGTREE SUBSTATION 20 Infigation Biscayne Aquifer 06-05414-W STARBUCKS AT WESTGATE SQUARE 70 Irrigation Biscayne Aquifer	
06-04853-W STRIKERS FAMILY SPORTSCENTER 40 Irrigation Surficial Aquifer 5	
06-04300-W SUNRISE AQUATIC CIVIC CENTER 250 PH Surficial Aquiter S	
06-04300-W SUNRISE AQUATIC CIVIC CENTER 100 PH Surficial Aquifer S	System
06-04300-W SUNRISE AQUATIC CIVIC CENTER 0 PHR Surficial Aquifer S	System System
06-03636-W SUNRISE ENTERPRISE CENTER - PHASE I 225 Irrigation Biscayne Aquifer	System System System
06-03636-W SUNRISE ENTERPRISE CENTER - PHASE I 225 Irrigation Biscayne Aquifer	System System System System
06-01704-W SUNRISE FIRE STATION NO 92 110 Irrigation Biscayne Aquifer	System System System System
	System System System System
06-04684-W SUNRISE HARLEY-DAVIDSON 85 Irrigation Surficial Aquifer S 06-03924-W SUNRISE LAND WEST PARCEL 200 IRL Surficial Aquifer S	System System System System 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 - WATER SUPPLY SYSTEM INTERCONNECTIONS

Interconnect with	Location Description and Map ID	Existing/ Proposed	Size (inches)	Capacity (gpm)	Metered (Yes/No)	Status (Working/Not Working)	Comments
City of LauderHill	58th Terr. & 15th St	Existing	8	470	No	Working	Herb Johnson, Utilities Director (954-730-4225); Neil Buckeridge, Superintendent (954-730-2972)
06-00129-W	NW 44th St, West of NW 82nd Ave	Proposed	12	1057			
	NW 29th Court and 124th Avenue	Existing	6	264	Yes	Working	Chuck Flynn, Utilities Director (954-797-2288); Steve Urich, Assistant Director (954-797-2779)
City of Plantation	NW 21st Ct & 124th Ave	Existing	8	470	Yes	Working	
0600103-W	Melaleuca Isles at Melaleuca Facility	Existing	8	470	Yes	Working	
0000103-11	Commodore Dr, at North New River Car	Existing	12	1057	Yes	Working	
	Flamingo Rd & NW 8th St	Existing	10	734	Yes	Working	
Town of Davie	University Dr. & SW 30th St	Existing	12	??	Yes	Working	Renuka Mohammed, Utilities Director (954-327-3742); Bill Peele, Superintendent
06-00134-W	Hiatus Rd North of 26th St	Existing	8	470	Yes	Working	
City of Pembroke Pines	SW 166th Ave & 67th PI	Existing	8	595	No	Working	Jerry Degrassenreid, Utilities Supervisor (954-986-5011); Reilly Smith, Operations Manager (954-518-9060)
06-00135-W	Dykes Rd & Bellavista Ave	Existing	8	734	No	Working	
Cooper City 06-00365-W	SW 136th Ave, 1000' South of E. Palom	Existing	12	470	Yes	Working	Mike Bailey, Utilitties Director (954- 434 -5519); George Garba (954-434-5510)

In emergencies, any City in need of water will contact the above named person(s) to have emergency by-pass turned on.

Appendix D SUNRISE UTILITY SERVICE AREA POPULATION PROJECTIONS BY TAZS



City of Sunrise WSFP Population Projections within Sunrise Water Service Area

TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
558	100%	2085	2094	2132	2357	Davie	Existing
559	100%	1250	1253	1274	1367	Davie	Existing
560	100%	6375	6430	6552	6953	Davie	Existing
561	100%	4608	4642	4721	4992	Davie	Existing
562	100%	3899	3924	3989	4248	Davie	Existing
563	100%	1396	1411	1440	1479	Davie	Existing
564	25%	531	537	548	560	Davie	Existing
565	100%	4457	4508	4603	4776	Davie	Existing
566	100%	2353	2590	2830	3096	Davie	Existing
569	87%	2355	2600	2832	3172	Davie	Existing
570	80%	512	516	528	573	Davie	Existing
572	100%	2183	2198	2239	2322	Davie	Existing
573	100%	6992	7041	7170	7493	Davie	Existing
574	71%	5335	5380	5490	5566	Davie	Existing
575	1%	33	34	34	37	Davie	Existing
590	90%	1200	1216	1241	1219	Davie	Existing
603	60%	1184	1194	1221	1208	Davie	Existing
604	72%	1277	1291	1319	1386	Davie	Existing
610	94%	950	956	977	974	Davie	Existing
611	35%	313	316	324	317	Davie	Existing
811	55%	0	0	0	0	Davie	Existing
889	0%	0	0	0	0	Davie	Existing
891	16%	0	0	0	0	Davie	Existing
591	100%	2331	2348	2398	2371	Davie	Existing
592	100%	1622	1639	1672	1684	Davie	Existing
593	100%	2530	2551	2607	2683	Davie	Existing
594	100%	1731	1750	1786	1763	Davie	Existing
595	100%	507	507	526	517	Davie	Existing
596	100%	1642	1659	1693	1672	Davie	Existing
602	100%	0	0	0	60	Davie	Existing
609	100%	1097	1108	1134	1125	Davie	Existing
810	100%	667	677	691	690	Davie	Existing
924	100%	729	914	1068	1318	Davie	Existing
SUBTOTAL		62100	63300	65000	68000	Davie	Existing
461	38%	839	841	857	927	Sunrise	Existing
462	100%	0	0	0	36	Sunrise	Existing
468	100%	0	0	0	68	Sunrise	Existing
469	100%	6620	6662	6791	7293	Sunrise	Existing
471	100%	4945	4963	5272	6222	Sunrise	Existing
472	100%	6419	6474	6584	7022	Sunrise	Existing

TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
473	100%	5377	5403	5508	5736	Sunrise	Evisting
473	100%	1354	1369	1397	1487	Sunrise	Existing Existing
474	100%						-
475	100%	1010 4964	1012 5002	1034 5101	1129 5285	Sunrise Sunrise	Existing
			5002		5285 7227		Existing
478	100%	5721		6364		Sunrise	Existing
479	100%	947	1223	1434	11393	Sunrise	Existing
480	100%	0	0	0	0	Sunrise	Existing
481	100%	3580	3839	4138	7489	Sunrise	Existing
482	100%	5825	6143	6555	6904	Sunrise	Existing
484	9%	434	433	530	616	Sunrise	Existing
487	100%	3920	3933	3998	4066	Sunrise	Existing
488	100%	4827	4847	4922	4827	Sunrise	Existing
489	100%	2097	2116	2162	2249	Sunrise	Existing
490	100%	942	951	970	1006	Sunrise	Existing
491	100%	1198	1208	1234	1264	Sunrise	Existing
492	100%	771	779	792	809	Sunrise	Existing
493	100%	3918	6207	6465	6694	Sunrise	Existing
494	100%	5312	5313	5375	5543	Sunrise	Existing
495	100%	2727	2733	2780	2853	Sunrise	Existing
496	100%	5251	5253	5574	5739	Sunrise	Existing
574	29%	2148	2166	2211	2241	Sunrise	Existing
575	94%	3258	3286	3348	3601	Sunrise	Existing
576	0%	0	0	0	0	Sunrise	Existing
896	100%	3981	4014	4095	4214	Sunrise	Existing
898	100%	1618	1625	1662	1758	Sunrise	Existing
937	100%	3848	3858	3937	3856	Sunrise	Existing
951	100%	1897	1911	1949	1968	Sunrise	Existing
952	100%	4244	4280	4360	4481	Sunrise	Existing
SUBTOTAL		100000	103800	107400	126000	Sunrise	Existing
601	20%	430	435	444	438	SW Ranches	Existing
603	20%	395	398	407	403	SW Ranches	Existing
604	28%	501	507	518	545	SW Ranches	Existing
605	75%	393	403	412	410	SW Ranches	Existing
608	18%	64	65	66	66	SW Ranches	Existing
610	6%	61	61	62	62	SW Ranches	Existing
611	35%	313	316	324	317	SW Ranches	Existing
811	45%	0	0	0	0	SW Ranches	Existing
911	63%	250	250	255	255	SW Ranches	Existing
SUBTOTAL		2400	2400	2500	2500	SW Ranches	Existing

	Factor of						
TAZID	Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
575	5%	190	192	196	210	Weston	Existing
576	100%	2684	2676	2729	2779	Weston	Existing
577	100%	6550	7818	7961	7783	Weston	Existing
578	100%	4511	4549	4641	4573	Weston	Existing
579	100%	7176	7240	7384	7287	Weston	Existing
580	100%	11070	11161	11378	11220	Weston	Existing
583	100%	4045	4073	4154	4098	Weston	Existing
584	100%	4279	4261	4312	4184	Weston	Existing
585	100%	2244	2269	2316	2288	Weston	Existing
586	100%	1375	1391	1421	1397	Weston	Existing
587	100%	571	575	586	578	Weston	Existing
588	100%	1677	1690	1727	1699	Weston	Existing
589	100%	2848	2869	2925	2885	Weston	Existing
590	0%	0	0	0	0	Weston	Existing
597	100%	9688	9756	9934	10064	Weston	Existing
888	100%	6980	7027	7156	7048	Weston	Existing
889	100%	0	0	0	0	Weston	Existing
890	100%	848	856	873	852	Weston	Existing
891	84%	2	2	2	648	Weston	Existing
SUBTOTAL		66700	68400	69700	69600	Weston	Existing
irand TOTA	۱L	231200	237900	244600	266100	_	Existing
TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
809	100%				211	SW Ranches	Future
812	1%				12	SW Ranches	Future
599	75%				3381	SW Ranches	Future
600	100%				1300	SW Ranches	Future
605	80%				437	SW Ranches	Future
606	40%				669	SW Ranches	Future
607	80%				337	SW Ranches	Future
808	100%				263	SW Ranches	Future
813	100%				328	SW Ranches	Future
950	20%				116	SW Ranches	Future
TOTAL					7100	SW Ranches	Future
TOTAL		231200	237900	244600	273200	_	_

Appendix E INTERGOVERNMENTAL MEETING MINUTES





Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2019

Intergovernmental coordination between City of Sunrise Utilities Department and Town of Davie October 3, 2019

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 – 2019 Update Intergovernmental Coordination on October 03, 2019.

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

ltem 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 and Demand Projections for the Town within City's service area.	
2.	Point of contacts are listed below for further communications. Town of Davie – David Quigley City of Sunrise – Tim Welch Natalia Garcia Stantec – Sangeeta Dhulashia Zuhal Ozturk	
3.	 Service Area Boundaries of the City's existing and future utility service area were reviewed. Development / redevelopment projects in TAZ 604 was brought to David Quigley's attention in order to determine jurisdiction for these projects. Projects listed under TAZ 604 were confirmed to belong to the Town of Davie at the Intergovernmental Meeting held with the Town of Southwest Ranches on October 08, 2019. 	
4.	Population Projections for Town of Davie were reviewed and discussed. David Quigley requested the source of the information provided on Table 5.	 David Quigley will check if the source of the information on Table 5 are from the plats by 10/10/2019. Tim Welch will provide the source for the information provided on Table 5 by 10/10/2019.

Meeting Minutes



October 03, 2019 City of Sunrise 10 Year Water Supply Facilities Work Plan - 2019 Update Page 2 of 2

5.	Demand Projections for Town of Davie were	
	reviewed and discussed.	

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 Zuhal Ozturk at Zuhal.Ozturk@stantec.com by **October 12th, 2019**. 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.



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

Water Supply Facilities Work Plan Update 2019

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

DATE & TIME of MEETING: October 03, 2019 at 09:00 AM

Location: Town Hall – Planning Department

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 – Tim Welch Natalia Garcia • Stantec – Sangeeta Dhulashia Zuhal Ozturk • Town of Davie – David Quigley
3.	Service Area
4.	Population Projections A. Population Projections – usage of Traffic Analysis Zone (TAZ) thru 2040
5.	A. Demand Projections
6.	List of Data Needs A. At Hand • Conservation and Reuse Efforts
7.	Intergovernmental Coordination

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 Demand - within City of Sunrise Utility Service Area

4) Town of Davie Projected Population by TAZs- within City of Sunrise Utility Service Area

5) Town of Davie New Development and Redevelopment Projects- within City of Sunrise

Utility Service Area



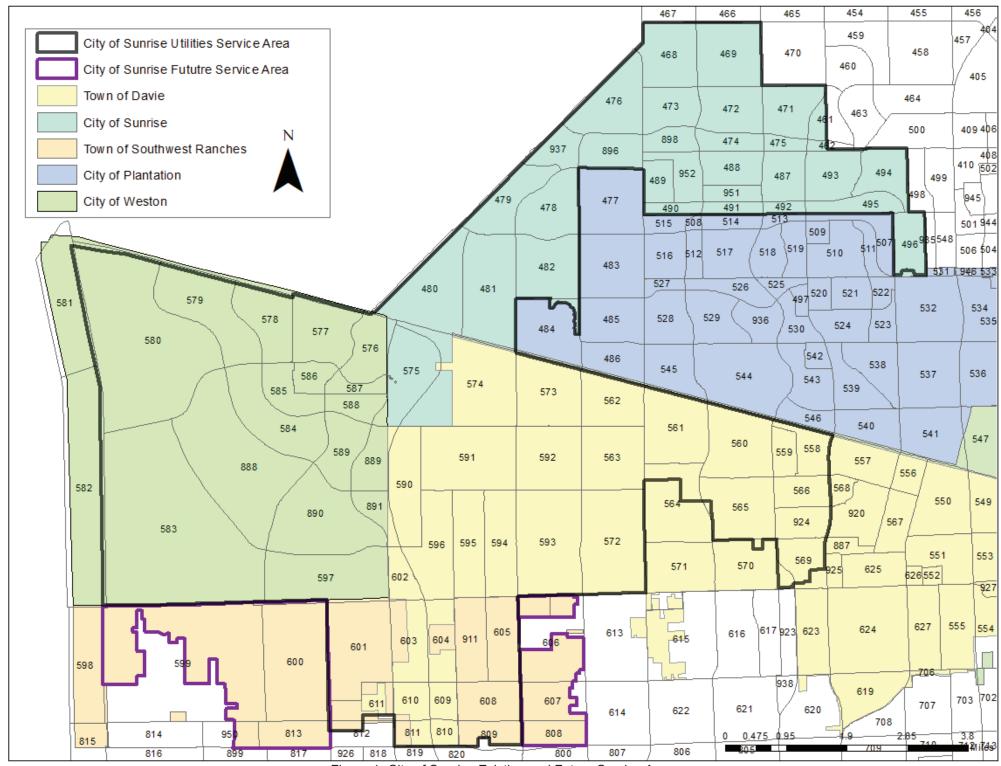


Figure 1- City of Sunrise Existing and Future Service Area

Meeting Agenda

Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

Table 1 – Town of Davie Projected Population - within City of Sunrise Service Area								
City	2020	2025	2030	2040	Service Area			
Town of Davie	62,100	63,300	65,000	68,000	Existing			

Table 2 – Town of Davie Projected Demand - within City of Sunrise Service Area (gpd)

City	2020	2025	2030	2040	Service Area
Town of Davie	5,243,200	5,347,500	5,502,300	5,832,600	Existing



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

	Factor	^					
TAZ ID	of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
558	100%	2,085	2,094	2,132	2,357	Davie	Existing
559	100%	1,250	1,253	1,274	1,367	Davie	Existing
560	100%	6,375	6,430	6,552	6,953	Davie	Existing
561	100%	4,608	4,642	4,721	4,992	Davie	Existing
562	100%	3,899	3,924	3,989	4,248	Davie	Existing
563	100%	1,396	1,411	1,440	1,479	Davie	Existing
564	25%	531	537	548	560	Davie	Existing
565	100%	4,457	4,508	4,603	4,776	Davie	Existing
566	100%	2,353	2,590	2,830	3,096	Davie	Existing
569	87%	2,355	2,600	2,832	3,172	Davie	Existing
570	80%	512	516	528	573	Davie	Existing
572	100%	2,183	2,198	2,239	2,322	Davie	Existing
573	100%	6,992	7,041	7,170	7,493	Davie	Existing
574	71%	5,335	5,380	5,490	5,566	Davie	Existing
575	1%	33	34	34	37	Davie	Existing
590	90%	1,200	1,216	1,241	1,219	Davie	Existing
603	60%	1,184	1,194	1,221	1,208	Davie	Existing
604	72%	1,277	1,291	1,319	1,386	Davie	Existing
610	94%	950	956	977	974	Davie	Existing
611	35%	313	316	324	317	Davie	Existing
811	55%	0	0	0	0	Davie	Existing
889	0%	0	0	0	0	Davie	Existing
891	16%	0	0	0	0	Davie	Existing
591	100%	2,331	2,348	2,398	2,371	Davie	Existing
592	100%	1,622	1,639	1,672	1,684	Davie	Existing
593	100%	2,530	2,551	2,607	2,683	Davie	Existing
594	100%	1,731	1,750	1,786	1,763	Davie	Existing
595	100%	507	507	526	517	Davie	Existing
596	100%	1,642	1,659	1,693	1,672	Davie	Existing
602	100%	0	0	0	60	Davie	Existing
609	100%	1,097	1,108	1,134	1,125	Davie	Existing
810	100%	667	677	691	690	Davie	Existing
924	100%	729	914	1,068	1,318	Davie	Existing
SUBTOTAL		62,100	63,300	65,000	68,000	Davie	Existing

Table 3 – Town of Davie Projected Population by TAZs – Within City of Sunrise Utility Service Area



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

		Service Area		
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	
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	 Stone Brook Estates Grand Oaks Estates, Davie Hicks Estat Oakhollowes Oak PARK 6600 gpd 	121	Davie
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
<mark>604</mark>	2	1.Health Care Group - Regency P-B 2.Regency Office Park	7	Davie/SW Ranches
		Total	1,218	

Table 5 – Town of Davie New Development and Redevelopment Projects – within City of Sunrise Utility Service Area

Stantec

MEETING SIGN IN SHEET

Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323

Meeting Attendance Record

Project Title: Water Supply Facilities Work Plan Update 2019

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

DATE & TIME of MEETING: October 3, 2019 at 09:00 AM

Location: Town Hall – Planning Department

	Name	Organization	Phone	Email Address
1	Tim Welch	cos	7548886055	twelded sunrise fl. gov
1	Natalia Garcia	cos	054868022	Maarca Sunnseflacy.
	David Quigley	TOD	5201-252-256	954-797-1075 davisles edavic-Pl. Jul
	Sangeeta Dhulashia	Stantec	954-850-1500	954-850-1500 songeeta. allubutio 2 stanteccan
	Zuhal Ozturk	Stantec	954 850 1530	954 850-1530 Zunal. Ozturk Sstanter.com
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Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2019

Intergovernmental coordination between City of Sunrise Utilities Department and City of Weston October 4, 2019

ltem No.	Agenda Items	Action Items
1.	Stantec described the purpose of the meeting and provided a project overview of the Water Supply Facilities Work plan.	
2.	Point of contact person for the City of Weston is Reddy Chitepu. Tim Welch and Natalia Garcia are the point of contacts for the City of Sunrise (City), and Sangeeta Dhulashia for Stantec.	
3.	 Reviews of Service Area: Boundaries of the City's existing and future utility service area were reviewed. 	
4.	 Population and Demand Projections: Projected population and demand for the years 2020, 2025, 2030, and 2040 were reviewed. Stantec stated that the Broward County's 2017 Traffic Analysis Zones (TAZs) were applied for population projection. In addition, City of Weston's future developments was compared with projected population in 2040. 	
5.	 City of Weston New Development and Redevelopment Projects: The City of Weston stated that Botanica FKA Weston Estates is currently under construction and St. Katharine Drexel Church currently has been completed. The City stated that the list of new developments includes future developments as well as recent construction. The City of Weston stated that there is a proposal development "Bonaventure Resort", the DRI for this development has not been approved. The City of Weston will share this information with the City of Sunrise. 	 Reddy Chitepu to confirm the list of new developments with Sarah Sinatra by 10/11/19 Reddy Chitepu to send "Bonaventure Resort" information to Stantec by 10/11/19

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 Sanaz Imen at Sanaz.imen@stantec.com by **October 11th, 2019**. 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.



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

Water Supply Facilities Work Plan Update 2019

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

DATE & TIME of MEETING: October 4, 2019 at 8:30 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 – Tim Welch Natalia Garcia • Stantec – Sangeeta Dhulashia Sanaz Imen • City of Weston – Reddy Chitepu		
3.	Service Area		
4.	Population Projections A. Population Projections – usage of Traffic Analysis Zone (TAZ) thru 2040		
5.	Demand Projections		
6.	List of Data Needs A. Requested Documents • Conservation and Reuse Efforts		
7.	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 Demand within City of Sunrise Utility Service Area
- 4) City of Weston Projected Population by TAZs- within City of Sunrise Utility Service Area
- 5) City of Weston New Development and Redevelopment Projects- within City of Sunrise Utility Service Area



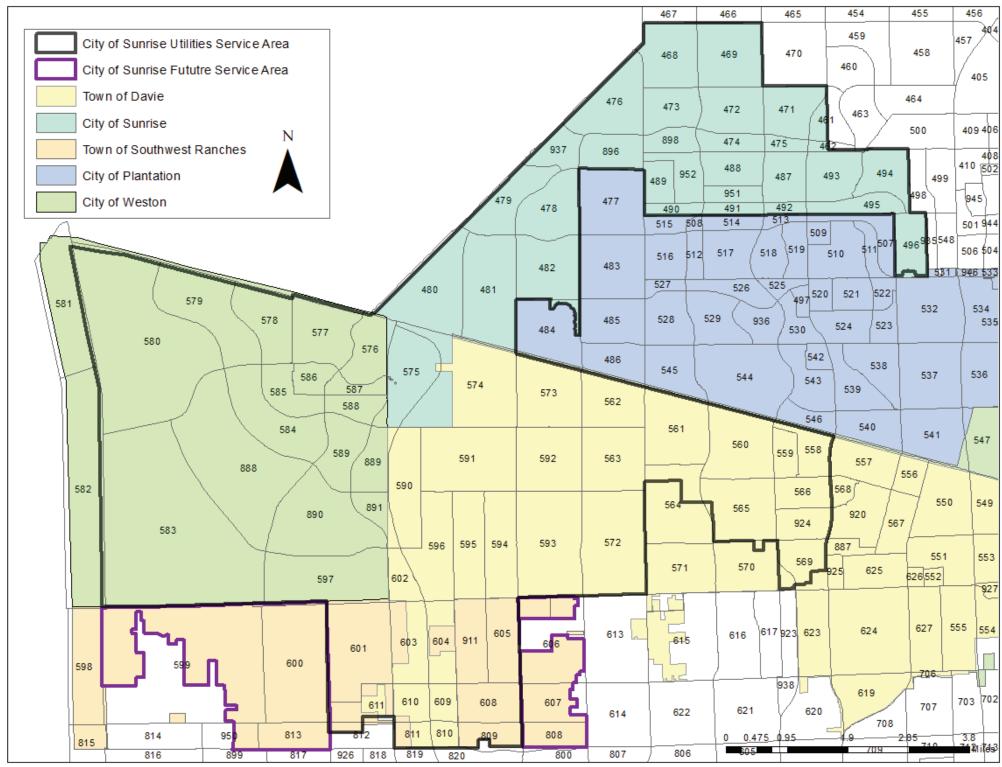


Figure 1- City of Sunrise Existing and Future Service Area

Meeting Agenda

Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

Table 1 – City of Weston Projected Population - within City of Sunrise Service Area							
City	City 2020 2025 2030 2040 Service Area						
City of Weston	66,700	68,400	69,700	69,600	Existing		

Table 2 - City of Weston Projected Demand - within City of Sunrise Service Area (gpd)

City	2020	2025	2030	2040	Service Area
City of Weston	8,455,000	8,666,400	8,830,300	8,901,200	Existing

Table 3 - City of Weston Projected Population by TAZs – Within City of Sunrise Utility Service Area

TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
575	5%	190	192	196	210	Weston	Existing
576	100%	2,684	2,676	2,729	2,779	Weston	Existing
577	100%	6,550	7,818	7,961	7,783	Weston	Existing
578	100%	4,511	4,549	4,641	4,573	Weston	Existing
579	100%	7,176	7,240	7,384	7,287	Weston	Existing
580	100%	11,070	11,161	11,378	11,220	Weston	Existing
583	100%	4,045	4,073	4,154	4,098	Weston	Existing
584	100%	4,279	4,261	4,312	4,184	Weston	Existing
585	100%	2,244	2,269	2,316	2,288	Weston	Existing
586	100%	1,375	1,391	1,421	1,397	Weston	Existing
587	100%	571	575	586	578	Weston	Existing
588	100%	1,677	1,690	1,727	1,699	Weston	Existing
589	100%	2,848	2,869	2,925	2,885	Weston	Existing
590	0%	0	0	0	0	Weston	Existing
597	100%	9,688	9,756	9,934	10,064	Weston	Existing
888	100%	6,980	7,027	7,156	7,048	Weston	Existing
889	100%	0	0	0	0	Weston	Existing
890	100%	848	856	873	852	Weston	Existing
891	84%	2	2	2	648	Weston	Existing
SUBTOTAL		66,700	68,400	69,700	69,600	Weston	Existing



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Table 4 - City of Weston New Development and Redevelopment Projects - within City of Sunrise Utility Service Area

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	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
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	1,072	

MEETING SIGN IN SHEET

Stantec

Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323

Meeting Attendance Record

Project Title: Water Supply Facilities Work Plan Update 2019

Meeting Subject: Intergovernmental Coordination between City of Sunrise Utilities Department and City of Weston Planning

DATE & TIME of MEETING: October 4, 2019 at 8:30 AM

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

Initial	Name	Organization	Phone	Email Address
Fran	Tim Welch	City of sunrise	9578886055	Twelch@ somrisef. gov
ra	Natalia Garcia	City of sunrise	954 888 6022	need ngarcia@ sonnsefl.gov
D	Reddy Chitepu	City of Weston	(9) 385-2ex	RCHIFERUEWENENFL. JOA.
50	Sangeeta Dhulashia	Stantec	(9)618-9813	twelch@ sonrisefl.gov nem ngarcia@ sonrisefl.gov RCHITEPU@WESTENFL.oaq. Sangerta. dhulas hiz e startu com.
SI	Sanaz Imen	Stantec	954-851-1511.	Sanaz. imen @ stantec.com
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Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2019

Intergovernmental Coordination with City of Sunrise Planning Division October 8, 2019

ltem No.	Agenda Items	Action Items
1.	Stantec described the purpose of the meeting and provided a project overview of the Water Supply Facilities Work Plan (WSFWP).	
2.	Point of contacts for the City of Sunrise Planning Division are Matthue Goldstein and Bradley Swing. Tim Welch and Natalia Garcia are the point of contacts for the City of Sunrise- Utilities Department, and Sangeeta Dhulashia and Sanaz Imen for Stantec.	
3.	 Reviews of Service Area: Boundaries of the City's existing and future utility service area were reviewed. 	
4.	 Population, Demand Projections, and New Developments Projected population and demand for the years 2020, 2025, 2030, and 2040 were reviewed. Stantec stated that the Broward County Population Forecasting and Allocation Model (PFAM2017) was used as a basis for each TAZ within the City's service area for population projection calculation. Natali Garcia explained that a portion of population projection for new developments were added to the PFAM 2017 projection for year 2040 to account for new growth. Stantec stated that per capita water demands were calculated for each local government located within COS utility service area using percent (%) demand distribution from the billing data of 2017. COS stated that majority of new developments belongs to BB&T Arena and Confidential Development located within in TAZ 479. Stantec stated that new developments have been taken into account in population projection and the methodology is described in detail in the WSFWP. Stantec requested the Planning Division to provide additional new development beyond those on the list (see Table 4 in the attachments). 	• The City of Sunrise Planning Division to send the additional list of approved development/redevelopment to Stantec by 10/16/2019



Meeting Minutes

October 08, 2019

City of Sunrise 10 Year Water Supply Facilities Work Plan - 2019 Update Page 2 of 3

5.	 Plan Adoption Schedule Stantec was planning to submit Draft Report by November 4, 2019. Stantec requested the City Planning Division to review the draft once submitted. Planning Division indicated that there will be sufficient time if the Draft WSFWP was on commission agenda for the December meeting. Stantec stated that the draft WSFWP report will be submitted to the District with concurrent submittal to the Planning Division for their review once the City of Sunrise Utilities approves the draft. The City-Planning Division shared the Draft Timeline for Water Supply Facilities Work Plan (WSFWP) Update-2019 with Stantec (Copy of the draft timeline is provided in the Attachments). 	 Stantec to send the Draft WSFWP report to the City by end of this week, and send to the District after City's review
6.	 Goals, Objectives, and Policies Stantec stated that previous Goals, Objectives, and Policies (GOPs) listed in the WSFWP 2014 were compared with recent Comprehensive Plan (2018). The GOPs, that were not listed in the previous WSFWP or have been edited since 2014 within Comprehensive Plan, were added into WSFWP. In addition, all policies related to reuse were also added as part of GOPs in WSFWP under a separate "Reuse" heading. Stantec confirmed that all policy numbers used in WSFWP were updated to reflect the numbers in the Comprehensive Plan. Stantec requested the City Planning Division to 	• The City of Sunrise -
	review the "Goal, Objectives, and Policies" section of the WSFWP-2019 update which was sent to the City on 10/7/2019.	Planning Division to review the GOP portion of the WSFWP-2019 update by 10/16/2019
	 Stantec proposed following minor changes for the Comprehensive Plan-2018. The City Planning Division will incorporate these revisions: Page D-3, Policy 1.1.13, line 2: Date "January 2015" needs to be updated to "March 2020" Page H-4, Policy 1.1.24, line 2: thirty (30) needs to be revised to fifty (50) Page E-6, Policy 1.6.8, line 4: There is a typo. The word "Florida" needs to be removed after (FDEP). 	

Design with community in mind



Meeting Minutes

October 08, 2019

City of Sunrise 10 Year Water Supply Facilities Work Plan - 2019 Update Page 3 of 3

7.	 Intergovernmental Coordination The City Planning Division stated that Winn-Dixie shopping center at 44th St and N Pine Island Rd was converted to apartments. Additionally, a hotel, under a "Flex Unit" category, was converted to an Assisted Leaving Facility (ASL). In addition to these changes, the City Planning Division stated that other flex units have been converted to apartments during the last 10 years; However, these are not considered as LUPAs. 	 The City of Sunrise Planning Division will send the latest list of LUPAs, DRIs, and converted flex units to Stantec, Information sent by 10/16/2019
	 Natalia Garcia stated that they have received a Request for Addition Information (RAI) from SFWMD as part of C-51 application. As part of the RAI, the City of Sunrise Utilities was requested to adopt the population projection presented in CUP application for C-51 into Comprehensive Plan. However, the Comprehensive Plan only encompasses the population projection within City of Sunrise and does not include the population of other local government within the City's utility service area. Additionally, the 	 The City of Sunrise Utilities to send a copy of the RAI to the City's Planning Division by 10/16/2019
	C-51 Application accounts for 50-year projection; however, the Comprehensive Plan data analysis only include 20-year projection. Natalia Garcia proposed to attach the population projections for C-51 application as an appendix to WSFWP, which would then be adopted into the Comprehensive Plan.	 The City of Sunrise Planning Division to send a copy of adopted ordinance to Stantec by 10/16/2019
	 Stantec confirmed that the demand has been calculated using finished water demand at treatment plant using gallon per capita water demand of 102 gpcd. 	

Attachments:

- 1. Meeting Agenda
- 2. Handouts
- 3. 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 Sanaz Imen at Sanaz.imen@stantec.com by **October 16th, 2019**. 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.



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

10-Year Water Supply Facilities Work Plan

SUBJECT: Intergovernmental Coordination with City of Sunrise Planning Division **DATE & TIME of MEETING:** October 8, 2019 at 9:00 AM

Location: City of Sunrise – Planning Department

Item No.	Agenda Items
1.	Project Overview – City of Sunrise Water Supply Facilities Work Plan (WSFP) overview
2.	Communications A. Point of contacts listed below for further communications. • COS – Tim Welch Natalia Garcia • Planning Division – Bradley Swing • Stantec – Sangeeta Dhulashia Sanaz Imen
3.	Service Area A. Existing Service Area Limitations
4.	Population Projections A. Population Projections – usage of Traffic Analysis Zone (TAZ) thru 2040
5.	 Plan Adoption Schedule A. Draft Report to be completed by November 4, 2019 B. Draft Report to commission by December 10, 2019 C. Final Report to be completed by May 2019
6.	Data at Hand A. LEC Plan 2018 B. Water Conservation Plan C. Previous Goals, Objectives, and Policies
7.	Intergovernmental Coordination A. Developments of Regional Impact (DRI) B. Land-use Plan Amendment (LUPA) C.
8	Comprehensive Plan Adoption A. Process B. Timeline

Attachments: 1) Existing and Future Utility Service Area Map

2) Projected Population within City of Sunrise Service Area

3) Projected Demand within City of Sunrise Service Area

4) City of Sunrise Utility Service Area Population Projection by TAZs

5) City of Sunrise New Development and Redevelopment Projects



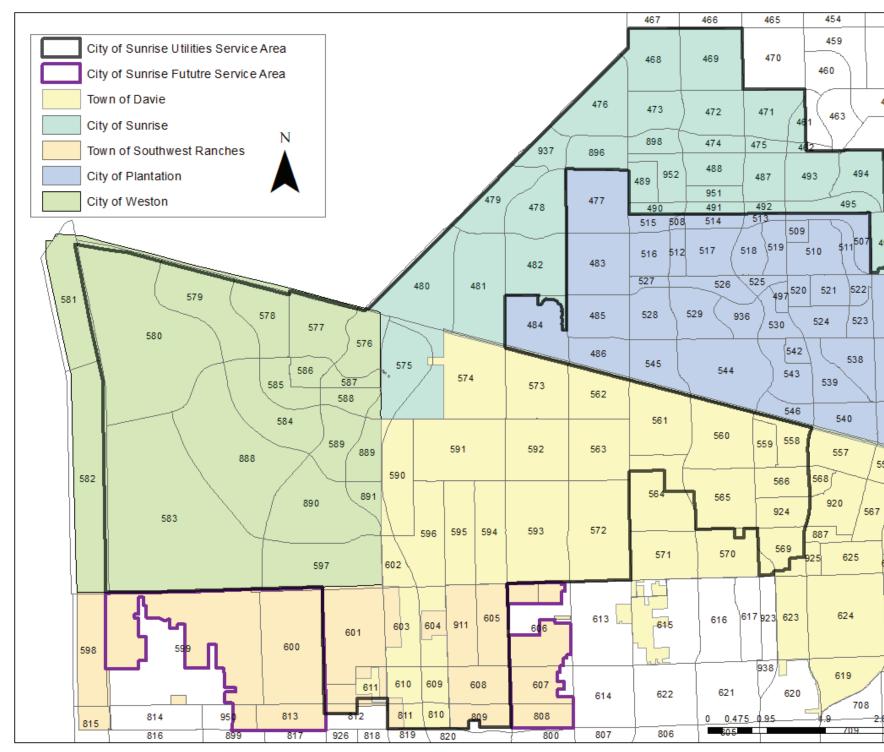


Figure 1- City of Sunrise Existing and Future Service Area





Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

City	2020	2025	2030	2040	Service Area
City of Weston	66,700	68,400	69,700	69,600	Existing
Town of Davie	62,100	63,300	65,000	68,000	Existing
City of Sunrise	100,000	103,800	107,400	126,000	Existing
Town of SW Ranches	2,400	2,400	2,500	2,500	Existing
Town of SW Ranches	-	-	-	7,100	Future
Total	231,300	238,000	244,600	273,100	

Table 1 - Projected Population within City of Sunrise Service Area

City	2020	2025	2030	2040	Service Area
City of Weston	8,455,000	8,666,400	8,830,300	8,901,200	Existing
Town of Davie	5,243,200	5,347,500	5,502,300	5,832,600	Existing
City of Sunrise	9,729,600	10,102,500	10,450,900	12,474,400	Existing
Town of SW Ranches	163,700	165,600	169,300	169,800	Existing
Town of SW Ranches				479,700	Future
Total	23,591,500	24,282,000	24,952,800	27,857,700	

Table 2 - Projected Demand within City of Sunrise Service Area (gpd)



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323 (O) 954.851.1500 | (D) 954.851.1530

TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
558	100%	2,085	2,094	2,132	2,357	Davie	Existing
559	100%	1,250	1,253	1,274	1,367	Davie	Existing
560	100%	6,375	6,430	6,552	6,953	Davie	Existing
561	100%	4,608	4,642	4,721	4,992	Davie	Existing
562	100%	3,899	3,924	3,989	4,248	Davie	Existing
563	100%	1,396	1,411	1,440	1,479	Davie	Existing
564	25%	531	537	548	560	Davie	Existing
565	100%	4,457	4,508	4,603	4,776	Davie	Existing
566	100%	2,353	2,590	2,830	3,096	Davie	Existing
569	87%	2,355	2,600	2,832	3,172	Davie	Existing
570	80%	512	516	528	573	Davie	Existing
572	100%	2,183	2,198	2,239	2,322	Davie	Existing
573	100%	6,992	7,041	7,170	7,493	Davie	Existing
574	71%	5,335	5,380	5,490	5,566	Davie	Existing
575	1%	33	34	34	37	Davie	Existing
590	90%	1,200	1,216	1,241	1,219	Davie	Existing
603	60%	1,184	1,194	1,221	1,208	Davie	Existing
604	72%	1,277	1,291	1,319	1,386	Davie	Existing
610	94%	950	956	977	974	Davie	Existing
611	35%	313	316	324	317	Davie	Existing
811	55%	0	0	0	0	Davie	Existing
889	0%	0	0	0	0	Davie	Existing
891	16%	0	0	0	0	Davie	Existing
591	100%	2,331	2,348	2,398	2,371	Davie	Existing
592	100%	1,622	1,639	1,672	1,684	Davie	Existing
593	100%	2,530	2,551	2,607	2,683	Davie	Existing
594	100%	1,731	1,750	1,786	1,763	Davie	Existing
595	100%	507	507	526	517	Davie	Existing
596	100%	1,642	1,659	1,693	1,672	Davie	Existing
602	100%	0	0	0	60	Davie	Existing
609	100%	1,097	1,108	1,134	1,125	Davie	Existing
810	100%	667	677	691	690	Davie	Existing
924	100%	729	914	1,068	1,318	Davie	Existing
SUBTOTAL		62,100	63,300	65,000	68,000	Davie	Existing

Table 3 - City of Sunrise Utility Service Area Population Projection by TAZs



TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
461	38%	839	841	857	927	Sunrise	Existing
462	100%	0	0	0	36	Sunrise	Existing
468	100%	0	0	0	68	Sunrise	Existing
469	100%	6,620	6,662	6,791	7,293	Sunrise	Existing
471	100%	4,945	4,963	5,272	6,222	Sunrise	Existing
472	100%	6,419	6,474	6,584	7,022	Sunrise	Existing
473	100%	5,377	5,403	5,508	5,736	Sunrise	Existing
474	100%	1,354	1,369	1,397	1,487	Sunrise	Existing
475	100%	1,010	1,012	1,034	1,129	Sunrise	Existing
476	100%	4,964	5,002	5,101	5,285	Sunrise	Existing
478	100%	5,721	5,983	6,364	7,227	Sunrise	Existing
479	100%	947	1,223	1,434	11,393	Sunrise	Existing
480	100%	0	0	0	0	Sunrise	Existing
481	100%	3,580	3,839	4,138	7,489	Sunrise	Existing
482	100%	5,825	6,143	6,555	6,904	Sunrise	Existing
484	9%	434	433	530	616	Sunrise	Existing
487	100%	3,920	3,933	3,998	4,066	Sunrise	Existing
488	100%	4,827	4,847	4,922	4,827	Sunrise	Existing
489	100%	2,097	2,116	2,162	2,249	Sunrise	Existing
490	100%	942	951	970	1,006	Sunrise	Existing
491	100%	1,198	1,208	1,234	1,264	Sunrise	Existing
492	100%	771	779	792	809	Sunrise	Existing
493	100%	3,918	6,207	6,465	6,694	Sunrise	Existing
494	100%	5,312	5,313	5,375	5,543	Sunrise	Existing
495	100%	2,727	2,733	2,780	2,853	Sunrise	Existing
496	100%	5,251	5,253	5,574	5,739	Sunrise	Existing
574	29%	2,148	2,166	2,211	2,241	Sunrise	Existing
575	94%	3,258	3,286	3,348	3,601	Sunrise	Existing
576	0%	0	0	0	0	Sunrise	Existing
896	100%	3,981	4,014	4,095	4,214	Sunrise	Existing
898	100%	1,618	1,625	1,662	1,758	Sunrise	Existing
937	100%	3,848	3,858	3,937	3,856	Sunrise	Existing
951	100%	1,897	1,911	1,949	1,968	Sunrise	Existing
952	100%	4,244	4,280	4,360	4,481	Sunrise	Existing
SUBTOTAL		100,000	103,800	107,400	126,000	Sunrise	Existing



TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
601	20%	430	435	444	438	SW Ranches	Existing
603	20%	395	398	407	403	SW Ranches	Existing
604	28%	501	507	518	545	SW Ranches	Existing
605	75%	393	403	412	410	SW Ranches	Existing
608	18%	64	65	66	66	SW Ranches	Existing
610	6%	61	61	62	62	SW Ranches	Existing
611	35%	313	316	324	317	SW Ranches	Existing
811	45%	0	0	0	0	SW Ranches	Existing
911	63%	250	250	255	255	SW Ranches	Existing
SUBTOTAL		2,400	2,400	2,500	2,500	SW Ranches	Existing
575	5%	190	192	196	210	Weston	Existing
576	100%	2,684	2,676	2,729	2,779	Weston	Existing
577	100%	6,550	7,818	7,961	7,783	Weston	Existing
578	100%	4,511	4,549	4,641	4,573	Weston	Existing
579	100%	7,176	7,240	7,384	7,287	Weston	Existing
580	100%	11,070	11,161	11,378	11,220	Weston	Existing
583	100%	4,045	4,073	4,154	4,098	Weston	Existing
584	100%	4,279	4,261	4,312	4,184	Weston	Existing
585	100%	2,244	2,269	2,316	2,288	Weston	Existing
586	100%	1,375	1,391	1,421	1,397	Weston	Existing
587	100%	571	575	586	578	Weston	Existing
588	100%	1,677	1,690	1,727	1,699	Weston	Existing
589	100%	2,848	2,869	2,925	2,885	Weston	Existing
590	0%	0	0	0	0	Weston	Existing
597	100%	9,688	9,756	9,934	10,064	Weston	Existing
888	100%	6,980	7,027	7,156	7,048	Weston	Existing
889	100%	0	0	0	0	Weston	Existing
890	100%	848	856	873	852	Weston	Existing
891	84%	2	2	2	648	Weston	Existing
SUBTOTAL		66,700	68,400	69,700	69,600	Weston	Existing
Grand TOTAL		231,200	237,900	244,600	266,100		Existing

TAZ-ID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
809	100%				211	SW Ranches	Future
812	1%				12	SW Ranches	Future
599	75%				3,381	SW Ranches	Future
600	100%				1,300	SW Ranches	Future
605	80%				437	SW Ranches	Future
606	40%				669	SW Ranches	Future
607	80%				337	SW Ranches	Future
808	100%				263	SW Ranches	Future
813	100%				328	SW Ranches	Future
950	20%				116	SW Ranches	Future
TOTAL					7,100	SW Ranches	Future
TOTAL		231,200	237,900	244,600	273,200		





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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
468	4	1.Sureway Moving & Storage 2.Pan American 3.T-Mobile Everglades MSO 4. Commercial Blvd	68	Sunrise
469	2	1. Jafco Respite Center 2. West Commercial Landings	91	Sunrise
471	4	 Springtree Villas Springtree Center - Walgreens Dollar General at Forum Plaza BJ's Redevelopment 	6,222	Sunrise
472	2	1.PINE PLAZA 5.73 AC 2.Skyline Professional Building	2,348	Sunrise
474	1	1.Frusciante	1,215	Sunrise
478	2	1. SGM Total expansion 64,000 gpd 2. METROPICA	7,227	Sunrise
479	2	1.BB&T Arena 2. Confidential Development	11,393	Sunrise
481	3	1.WESTERRA 278 gpm 2. Racal Milgo System 1/Sunrise Industrial Park 3.Sawgrass Pointe III	7,489	Sunrise
492	1	1.Sunset Square Plaza (With O'Reilly Autoparts)	8	Sunrise
493	1	1.Sunrise Country Club	2,916	Sunrise
494	1	1.Race Trac	15	Sunrise
574	1	1.CSG Sunwest Building E	58	Sunrise
575	1	1.Westgate Square	18	Sunrise
576	1	1.Comm. Dev. & Blatt & Weston - Sunrise Por	57	Sunrise
937	1	1.Artesia Pods N, T & S	296	Sunrise
952	1	1.Fairway Isles Revised Site Plan - PC Fees paid 2005. Site plan expired Total	212 39,631	Sunrise Sunrise

Table 4 - City of Sunrise New Development and Redevelopment Projects

Timeline for WSP Update - 2019

Date Agency		Action	Assignment
November 2019		Draft WSP and GOPS	TW/BS/MG
December 2019		Ordinance/Title approval	CAO
December 30, 2019		Draft Staff Report and MuniAgenda Item	
January 6, 2020	January 6, 2020 Advertise for LPA and City Commission (1 st Reading) (Display Ad 7 days/No Legal Ad) (If not change to FLUE no Registered Neighborhood Ad needed)		BS/MG
January 14, 2020	City Commission	LPA and City Commission adoption of Comp Plan amendments (1st Reading) and WSP	
January 16, 2020		Transmit to DEO and reviewing agencies with request for Expedited State Review per 163.3184(3) and (5), F.S.	BS/MG
February 13, 2020	DEO/Reviewing Agencies	Receive comments from DEO and reviewing agencies (within 30 days of receipt)	
February 28, 2020		Advertise for City Commission (2 nd Reading) (Display Ad 5 days/Legal Ad 10 days)	BS/MG
March 10, 2020	City Commission	City Commission adoption of Comp Plan amendments (2 nd Reading)	
March 13, 2020		Transmittal to DEO	BS/MG
April 16, 2020 approx.)		Statutory deadline for Adoption and Transmittal (18 months from LEC WSP adoption)	
May 2020	DEO	NOI (within 31 days of receipt of complete adopted plan amendment)	

MEETING SIGN IN SHEET



Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323

Meeting Attendance Record

Project Title: Water Supply Facilities Work Plan Update 2019

Meeting Subject: Intergovernmental Coordination with City of Sunrise Planning Division

DATE & TIME of MEETING: October 8, 2019 at 9:00 AM

Location: City of Sunrise – Planning Department

Initial	Name	Organization	Phone	Email Address
	Tim Welch	COS	(954) 888-6055	twelch@sunrisefl.gov
100	Natalia Garcia	COS	(954) 888-6022	ngarcia@sunrisefl.gov
May	Matthue Goldstein	COS	(954) 746-3291	MGoldstein@sunrisefl.gov
135	Bradley Swing	COS	(954) 746-3238	bswing@sunrisefl.gov
59	Sangeeta Dhulashia	Stantec	(954) 618-9813	sangeeta.dhulashia@stantec.com
SI	Sanaz Imen	Stantec	(954) 851-1511	Sanaz.imen@stantec.com
			1	



Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2019

Intergovernmental Coordination between City of Sunrise Utilities Department and Town of Southwest Ranches October 8, 2019

ltem No.	Agenda Items	Action Items
1.	Stantec described the purpose of the meeting and provided a project overview of the Water Supply Facilities Work Plan (WSFWP).	
2.	Point of contact for the Town of Southwest Ranches (Town) is Jeff Katims. Tim Welch and Natalia Garcia are the point of contacts for the City of Sunrise – Utilities Department (City), and Sangeeta Dhulashia and Sanaz Imen for Stantec.	
3.	 Reviews of Service Area: Boundaries of the City's existing and future utility service area were reviewed. Town of Southwest Ranches stated that 35-40 homes adjacent to Dykes Rd, each on one (1) acre of land, will be developed in TAZ 603. In addition, 4 parcels are going to be developed by Toll Brothers and one of these parcels is a 90-acre property called Master's Academy which is bounded by Griffin Rd., Handcock Rd., and SW 136th Ave and they are evaluating the option of having a centralized service for 38 single family units. In addition, Bergeron has plan for a new development adjacent to US-27. New land-use category (Industrial development) has been developed specifically for US-27. IN addition, west side of US-27, there are several privately owned parcels (about 20 acres) and there is some interest from smaller development planned. Additionally, on SW corner of SW 184th in Griffin Rd, sixteen (16) lots are getting developed and the intent for these units is to be on septic and wells. 	
4.	 Population, Demand Projections, and New Developments Projected population and demand for the years 2020, 2025, 2030, and 2040 were reviewed. Stantec stated that the Broward County Population Forecasting and Allocation Model (PFAM-2017) was applied for population projection calculation. 	
	• The Town stated that the projected population seems unrealistic for the Town of Southwest Ranches, since	

Meeting Minutes



October 08, 2019

City of Sunrise 10 Year Water Supply Facilities Work Plan - 2019 Update Page 2 of 2

	there are not enough developments to happen in the future. The Town stated that they apply Shimberg to project population. The Town shared their projected population (see the attachments).	
•	Stantec compared the projected population for the year 2040 and stated that the difference is about 10%.	
•	The Town confirmed that "Health Care Group – Regency P-B" and "Regency Office Park" are not located within the Town and belong to Town of Davie.	
•	The Town mentioned that the "Landmark Ranch Estates" and "Meadow View Estates" were old developments and "Estates of Sunrise Ranches" was a small development which has been completed.	
٠	The City suggested Stantec to replace the list of Town's new developments with those discussed during the meeting.	 Stantec to remove the old developments and replace them with
•	The City stated that Southwest WWTP can provide reuse quality water to the Town and distribution system needs to be built out. The Town stated that since the residents are on private wells, he had no say in this.	those discussed during the meeting

Attachments:

- 1. Meeting Agenda
- 2. Handouts
- 3. 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 Sanaz Imen at Sanaz.imen@stantec.com by **October 17th, 2019**. 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.



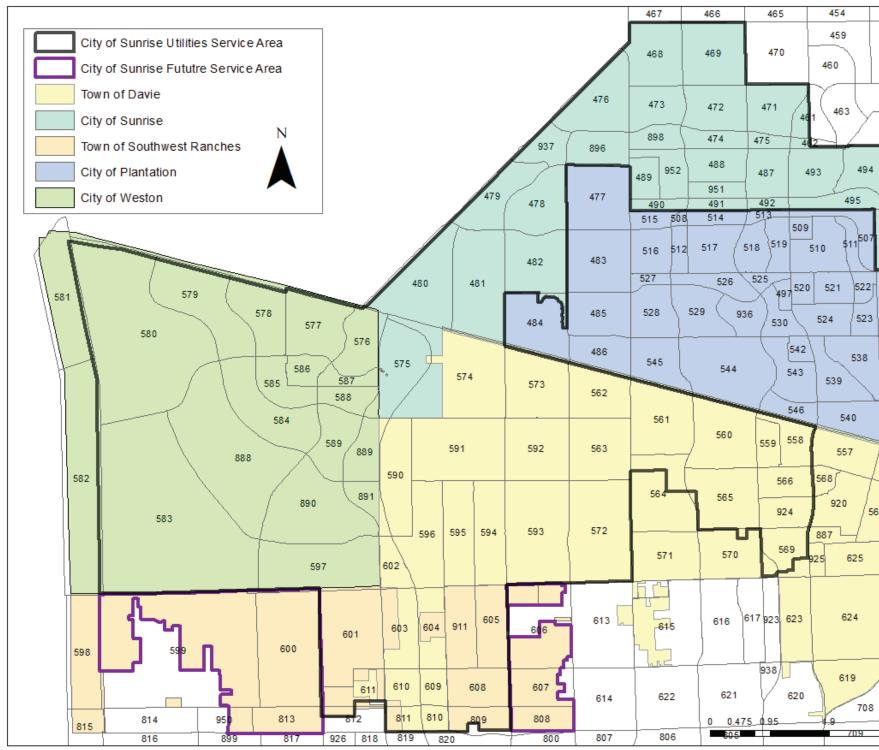


Figure 1- City of Sunrise Existing and Future Service Area

Meeting Agenda





Meeting Minutes

City of Sunrise Water Supply Facilities Work Plan - 2019

Intergovernmental Coordination between City of Sunrise Utilities Department and Town of Southwest Ranches October 8, 2019

ltem No.	Agenda Items	Action Items
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4.	 Population, Demand Projections, and New Developments Projected population and demand for the years 2020, 2025, 2030, and 2040 were reviewed. Stantec stated that the Broward County Population Forecasting and Allocation Model (PFAM-2017) was applied for population projection calculation. The Town stated that the projected population seems 	
	• The Town stated that the projected population seems unrealistic for the Town of Southwest Ranches, since	



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Table 1 – Town of Sc	outhwest Ranches I	Projected Po	pulation - withi	n City	y of Sunrise S	Service Area

City	2020	2025	2030	2040	Service Area
Town of SW Ranches	2,400	2,400	2,500	2,500	Existing
Town of SW Ranches				7,100	Future
Total	2,400	2,400	2,500	9,600	

Table 2 – Town of Southwest Ranches Projected Demand-within City of Sunrise Service Area (gpd)

City	2020	2025	2030	2040	Service Area
Town of SW Ranches	163,700	165,600	169,300	169,800	Existing
Town of SW Ranches				479,700	Future
Total	163,700	165,600	169,300	649,500	

 $[\]label{eq:table 3-Town of Southwest Ranches Projected Population by TAZs-Within City of Sunrise Utility$

			Ser	vice Area			
TAZID	Factor of Service Area	Pop2020	Pop2025	Pop2030	Pop2040	MUNICIPALITY	SERVICE AREA
601	20%	430	435	444	438	SW Ranches	Existing
603	20%	395	398	407	403	SW Ranches	Existing
604	28%	501	507	518	545	SW Ranches	Existing
605	75%	393	403	412	410	SW Ranches	Existing
608	18%	64	65	66	66	SW Ranches	Existing
610	6%	61	61	62	62	SW Ranches	Existing
611	35%	313	316	324	317	SW Ranches	Existing
811	45%	0	0	0	0	SW Ranches	Existing
911	63%	250	250	255	255	SW Ranches	Existing
SUBTOTAL		2,400	2,400	2,500	2,500	SW Ranches	Existing
809	100%				211	SW Ranches	Future
812	1%				12	SW Ranches	Future
599	75%				3,381	SW Ranches	Future
600	100%				1,300	SW Ranches	Future
605	80%				437	SW Ranches	Future
606	40%				669	SW Ranches	Future
607	80%				337	SW Ranches	Future
808	100%				263	SW Ranches	Future
813	100%				328	SW Ranches	Future
950	20%				116	SW Ranches	Future
SUBTOTAL					7,100	SW Ranches	Future
TOTAL		2,400	2,400	2,500	9,600		



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Table 5 – Town of Southwest Ranches New Development and Redevelopment Projects – within City of Sunrise Utility Service Area

TAZ_ID	No. of New Developments in the TAZ	Project Name	Population per TAZ using Billed Water PCUR of 92.6	Municipality
601	1	1.Landmark Ranch Estates	50	SW Ranches
<mark>604</mark>	2	1.Health Care Group - Regency P-B 2.Regency Office Park	7	Davie/SW <mark>Ranches</mark>
605	1	1.Estates of Sunshine Ranches	5	SW Ranches
911	1	1.Meadow View Estates	8	SW Ranches
		Total	70	

area of approximately 13 square miles and has a population of 7,616 (2014).¹ Only two small portions of the Town are currently served by a centralized potable water system. The Town generally opposes any further expansion of these utilities, as a matter of policy. The Town's population is projected to increase by approximately 15.5 percent between 2015 and 2040, from 7,616 to approximately 8,797. All of this growth will be accommodated by the remaining vacant land designated for singe family estates. There are no areas of the Town designated for attached housing of any kind, or single-family detached housing on lots smaller than one full acre. Additionally, the few isolated areas of the Town designated for nonresidential and nonagricultural use, include the former 30-acre prison site, Master's Academy and West Broward Church, will require water service expansion

Table 1: Town of Southwest Ranches Current and Projected Population.

YEAR	2016	2020	2025	2030	2035	2040
POPULATION	7,571	7,733	7,972	8,067	8,135	8,187

Source: Florida Housing Data Clearinghouse /Shimberg Center base data, modified (increased) to reflect additional residential development acreage.

2.1 OVERVIEW

"The Vision of the Town of Southwest Ranches is to enhance and preserve the unique rural character of its community. The Town shall promote, maintain and protect its agricultural, residential and equestrian lifestyles, sensitive to the natural environment."

J.

On May 22, 2000, the Governor of Florida approved HB 177 and officially incorporated approximately Thirteen (13) square miles of unincorporated rural areas into the Town of Southwest Ranches. The primary reason the Town's residents voted for incorporation is clearly stated in the Town's Charter, Section 1.01 of Article 1 which reads:

"In order to preserve, protect and enhance the quality of life and residential character of the Southwest Ranches (The Town) is hereby created pursuant to the Constitution of the State of Florida."

¹ Broward County Planning Services Division, 2014



MEETING SIGN IN SHEET

Stantec 1551 Sawgrass Corporate Parkway Suite 440 Sunrise, FL 33323

Meeting Attendance Record

Project Title: Water Supply Facilities Work Plan Update 2019

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

DATE & TIME of MEETING: October 8, 2019 at 10:00 AM

Location: City of Sunrise, 777 Sawgrass Corporate Parkway

Initial	Name	Organization	Phone	Email Address
	Tim Welch	COS	(954) 888-6055	twelch@sunrisefl.gov
DA	Natalia Garcia	COS	(954) 888- 6022	ngarcia@sunrisefl.gov
SM	Jeff Katims	Town of Southwest Ranches	(954) 475-3070	Jeff@floridaplanning.net
50	Sangeeta Dhulashia	Stantec	(954) 618-9813	sangeeta.dhulashia@stantec.com
SI	Sanaz Imen	Stantec	(954) 851-1511	Sanaz.imen@stantec.com
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11				

Appendix F CITY OF SUNRISE WELL DESCRIPTIONS



Well ID	28547	28551	28552	28553	28554	28555	261798	28556	261797	28557
Name	S-2	S-6	S-7	S-8	S-9	S-10	S-10R	S-11	S-11R	S-12
Map Designator	Springtree2	Springtree6	Springtree7	Springtree8	Springtree9	Springtree10	Springtree10R	Springtree11	Springtree11R	Springtre12
FLUWID Number	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Well Field	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree
Existing/ Proposed (E/P)	E	Е	E	E	Е	AB	Е	AB	E	AB
Well Diameter (inches)	18	18	18	18	18	18	20	18	20	18
Total Depth (feet)	115	76	76	72	72	84	89	91	108	91
Cased Depth (feet)	110	69	68	67	65	80	110	84	84	84
Facility Elev. (Feet, NGVD)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Screened Interval (feet)										
From	110	69	68	67	65	80	ND	84	ND	84
То	115	76	76	72	72	84	ND	91	ND	91
Pumped or Flowing (P/F)	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Ритр Туре	Submersible	None	Submersible	Submersible	Submersible	None	Submersible	None	Submersible	None
Pump Intake Elevation										
Feet NGVD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Feet BLS	-20	0	-20	-20	0	ND	60	0	60	0
Pump Capacity (GPM)	1,000	0	1,100	950	0	0	1,000	0	1000	0
Year Proposed/Drilled	1971	1973	1973	1973	1973	1974	2013	1974	2013	1974
Planar Location										
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate	DIGITIZED	Migrate	DIGITIZED	Migrate
Feet North	898,487	899,737	900,237	900,237	900,437	897,287	897,253	897,687	897,597	898,037
Feet East	671,411	670,561	670,561	670,861	671,061	670,061	670,127	669,911	670,001	669,561
Accounting Method	Flow Meter	None	Flow Meter	Flow Meter	Flow Meter	None	Flow Meter	None	Flow Meter	None
Use Status	Primary Public Water	Standby Public Water	Primary Public Water	Primary Public Water	Standby Public Water	AB Public Water	Primary Public Water	AB Public Water	Primary Public Water	AB Public Water
Water Use Type	Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply
Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer

P: Proposed ND: No data TBD: To be determined AB: Abandoned E: Existing

Well ID	261796	28558	263446	28559	263447	28560	263448	28561	263449	28562
Name	S-12R	S-13	S-13R	S-14	S-14R	S-15	S-15R	S-16	S-16R	S-17
Map Designator	Springtree12R	Springtree13	Springtree13R	Springtree14	Springtree14R	Springtree15	Springtree15R	Springtree16	Springtree16R	Springtree17
FLUWID Number	ND									
Well Field	Springtree									
Existing/ Proposed (E/P)	E	AB	E	AB	E	AB	E	AB	E	E
Well Diameter (inches)	16	18	16	18	16	18	16	18	16	12
Total Depth (feet)	108	84	115	90	110	107	115	107	115	125
Cased Depth (feet)	84	80	88	84	70	87	65	80	80	70
Facility Elev. (Feet, NGVD)	ND									
Screened Interval (feet)										
From	84	80	88	84	ND	87	ND	80	80	70
То	103	84	110	90	ND	107	ND	107	110	125
Pumped or Flowing (P/F)	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Pump Type	Submersible									
Pump Intake Elevation										
Feet NGVD	ND									
Feet BLS	60	-20	60	-20	60	-20	60	-20	60	-20
Pump Capacity (GPM)	1000	1000	1000	1000	1000	1500	1000	1500	1000	1,000
Year Proposed/Drilled	2013	1974	2013	1974	2013	1974	2013	1974	2013	1989
Planar Location										
Source	DIGITIZED	Migrate								
Feet North	897,915	898,137	898,101	898,387	898,327	898,337	898,401	898437	898,451	899,717
Feet East	669,734	669,261	669,347	669,461	669,585	668,911	668,904	668561	668,673	669,021
Accounting Method	Flow Meter									
Use Status	Primary	AB	Primary	AB	Primary	AB	Primary	AB	Primary	Primary
Water Use Type	Public Water Supply									
Aquifer	Biscayne Aquifer									

P: Proposed ND: No data TBD: To be determined AB: Abandoned E: Existing

Well ID	261789	28564	28565	28566	28567	28575	28576	28539	28538	28540
Name	S-18R	S-19	S-20	S-21	S-22	RO-1	ASR-2	SG-1	SG-2	SG-3
Map Designator	Springtree18R	Springtree19	Springtree20	Springtree21	Springtree22	RO-1	ASR-2	Sawgrass1	SG-2	Sawgrass3
FLUWID Number	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Well Field	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree	Springtree	Arena	Sawgrass	Arena
Existing/ Proposed (E/P)	E	E	E	E	E	E	Р	E	Р	E
Well Diameter (inches)	16	18	18	18	18	16	16	18	20	20
Total Depth (feet)	125	118	120	115	118	1,270	1,200	95	95	95
Cased Depth (feet)	64	97	97	98	97	1,110	1,000	76	76	73
Facility Elev. (Feet, NGVD)	ND	ND	ND	ND	ND	ND	ND	ND	TBD	ND
Screened Interval (feet)										
From	ND	97	97	98	97	1110	0	76	0	73
То	ND	118	120	115	118	1270	0	95	0	95
Pumped or Flowing (P/F)	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Pump Type	Submersible	Submersible	Submersible	Submersible	Submersible	Submersible	Unspecified	Submersible	TBD	Submersible
Pump Intake Elevation										
Feet NGVD	ND	ND	ND	ND	ND	ND	TBD	ND	TBD	ND
Feet BLS	60	-20	-20	-20	-20	0	TBD	-40	TBD	-40
Pump Capacity (GPM)	1100	1,000	1,050	1,000	1,400	1,400	TBD	2,100	TBD	2,100
Year Proposed/Drilled	2013	1992	1993	1993	1993	1998	TBD	1997	TBD	1997
Planar Location										
Source	DIGITIZED	Migrate	Migrate	Migrate	Migrate	APPLICANT	Migrate	Migrate	Migrate	Migrate
Feet North	900,146	899,517	899,517	899,987	899,657	898,007	898,381	880, 057	879497	878,927
Feet East	669,448	669,311	669,781	670,161	670,301	670,372	670,552	664,686	664,601	664,181
Accounting Method	Flow Meter	Unspecified	Flow Meter	TBD	Flow Meter					
Use Status	Primary Public Water	Proposed Public Water	Primary Public Water	Proposed Public Water	Primary Public Water					
Water Use Type	Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply
Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Upper Floridan Aquifer	Floridan Aquifer System	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer

P: Proposed ND: No data TBD: To be determined AB: Abandoned E: Existing

Well ID	28541	28542	28543	28544	28531	28574	108086	108085	28535
Name	SG-4	SG-5	SG-6	SG-7	SG-8	SG-9	SGF-1	SGF-2	FP-1
Map Designator	Sawgrass4	Sawgrass5	Sawgrass6	SG-7	Sawgrass8	SG-9	SawgrassF-1	SawgrassF-2	Flamingo Park1
FLUWID Number	ND	ND	ND						
Well Field	Arena	Arena	Arena	Sawgrass	Arena	Sawgrass	Sawgrass	Sawgrass	Flamingo Park
Existing/ Proposed (E/P)	Е	E	E	Р	E	Р	Е	E	E
Well Diameter (inches)	20	20	20	20	20	20	16	16	20
Total Depth (feet)	95	95	95	95	95	95	1127	1150	84
Cased Depth (feet)	75	72	68	76	72	76	1006	1014	64
Facility Elev. (Feet, NGVD)	ND	ND	ND	TBD	ND	TBD	ND	ND	ND
Screened Interval (feet)									
From	75	72	68	TBD	72	TBD	1000	1000	64
То	95	95	95	TBD	95	TBD	2000	2000	84
Pumped or Flowing (P/F)	Р	Р	Р	Р	Р	Р	Р	Р	Р
Pump Type	Submersible	Submersible	Submersible	TBD	Submersible	TBD	Unspecified	Unspecified	Submersible
Pump Intake Elevation									
Feet NGVD	ND	ND	ND	TBD	ND	TBD	ND	ND	ND
Feet BLS	-40	-40	-40	TBD	0	TBD	TBD	TBD	0.00
Pump Capacity (GPM)	2,100	2,100	2,100	TBD	2,100	TBD	2100	2100	2,600
Year Proposed/Drilled	1997	1997	1997	TBD	1997	TBD	2013	2013	2003
Planar Location									
Source	Migrate	Migrate	Migrate	Migrate	Migrate	Migrate	DIGITIZED	DIGITIZED	Migrate
Feet North	878,237	877,177	876,567	876137	876,142	876437	871,709	871,700	878,827
Feet East	663,341	662,746	662,391	661,811	662,351	662,701	653,952	656,421	655,011
Accounting Method	Flow Meter	Flow Meter	Flow Meter	TBD	Flow Meter	TBD	Flow Meter	Flow Meter	Flow Meter
Use Status	Primary	Primary	Primary	Proposed	Primary	Proposed	Primary	Primary	Primary
Water Use Type	Public Water Supply	Public Water Supply	Public Water Supply						
Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer	Upper Floridan Aquifer	Upper Floridan Aquifer	Biscayne Aquifer

P: Proposed ND: No data

TBD: To be determined

AB: Abandoned

E: Existing

Well ID	28536	28537	28577	27198	27199	27200	220736	279330	274270
Name	FP-2	FP-3	FP-4	SW-1	SW-2	SW-3	SW-4	SW-1R	SW-2R
Map Designator	Flamingo Park2	Flamingo Park3	Flamingo Park4	Southwest1	Southwest2	Southwest3	Southwest4	SW-1R	SW-2R
FLUWID Number	ND	ND	ND	ND	ND	ND	ND	ND	ND
Well Field	Flamingo Park	Flamingo Park	Flamingo Park	Southwest	Southwest	Southwest	Southwest	Southwest	Southwest
Existing/ Proposed (E/P)	E	E	E	E	AB	E	Р	Р	E
Well Diameter (inches)	20	20	24	12	12	12	24	12	12
Total Depth (feet)	86	80	86	60	60	60	100	70	70
Cased Depth (feet)	68	66	66	40	42	40	80	50	50
Facility Elev. (Feet, NGVD)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Screened Interval (feet)									
From	68	66	66	40	42	40	80	ND	ND
То	86	80	86	60	60	60	100	ND	ND
Pumped or Flowing (P/F)	Р	Р	Р	Р	Р	Р	Р	Р	Р
Pump Type	Submersible	Submersible	Submersible	Turbine	Turbine	Turbine	Submersible	Turbine	Submersible
Pump Intake Elevation									
Feet NGVD	ND	ND	ND	ND	ND	ND	ND	ND	ND
Feet BLS	0.00	0.00	0.00	-32	-34	-32	TBD	37	ND
Pump Capacity (GPM)	2,600	2,600	2,600	700	0	700	TBD	800	600
Year Proposed/Drilled	2003	1997	2003	1983	1983	1983	2008	ND	ND
Planar Location									
Source	Migrate	Migrate	DIGITIZED	DIGITIZED	DIGITIZED	DIGITIZED	DIGITIZED	ND	APPLICANT
Feet North	878,817	879,107	879,087	868,425	868226	868,065	868,494	868,386	868,057
Feet East	654,481	654,041	654,992	621,810	621742	621,725	621,672	621,810	622,066
Accounting Method	Flow Meter	Flow Meter	Flow Meter	Flow Meter					
Use Status	Primary	Primary	Primary	Primary	AB	To be plugged and Abandoned	Secondary	Proposed	Primary
Water Use Type	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	Biscayne Aquifer	Biscayne Aquifer	Biscayne Aquifer

P: Proposed ND: No data TBD: To be determined

AB: Abandoned

E: Existing

Well ID	279331	108084
Name	SW-3R	MF-1
Map Designator	SW-3R	MF-1
FLUWID Number	ND	ND
Well Field	Southwest	Melaleuca
Existing/ Proposed (E/P)	Р	E
Well Diameter (inches)	12	16
Total Depth (feet)	70	1200
Cased Depth (feet)	50	1000
Facility Elev. (Feet, NGVD)	ND	ND
Screened Interval (feet)		
From	ND	1000
То	ND	1200
Pumped or Flowing (P/F)	Р	Р
Pump Type	Turbine	Submersible
Pump Intake Elevation		
Feet NGVD	ND	ND
Feet BLS	37	ND
Pump Capacity (GPM)	800	2,100
Year Proposed/Drilled	ND	2007
Planar Location		
Source	ND	DIGITIZED
Feet North	868,065	879,998
Feet East	621,699	648,688
Accounting Method	Flow Meter	Flow Meter
Use Status	Proposed	Standby
Water Use Type	Public Water Supply	Public Water Supply
Aquifer	Biscayne Aquifer	Upper Floridan Aquifer

P: Proposed ND: No data TBD: To be determined

AB: Abandoned

E: Existing

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

CITY OF SUNRISE NOTICE OF COMPREHENSIVE PLAN AMENDMENTS

The City of Sunrise proposes to adopt the following ordinance:

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF SUNRISE, FLORIDA TO ADOPT AN AMENDED 10-YEAR WATER SUPPLY FACILITIES WORK PLAN AND TO AMEND THE CITY OF SUNRISE COMPREHENSIVE PLAN TO STRENGTHEN COORDINATION BETWEEN WATER SUPPLY AND LOCAL LAND USE PLANNING BY AMENDING THE TEXT CONTAINED IN THE INFRASTRUCTURE, CAPITAL IMPROVEMENTS, AND INTERGOVERNMENTAL COORDINATION ELEMENTS; PROVIDING FOR TRANSMITTAL OF CERTIFIED COPIES OF THIS ORDINANCE AND COMPREHENSIVE PLAN AMENDMENTS TO THE FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY AND ALL OTHER UNITS OF LOCAL GOVERNMENT OR GOVERNMENTAL AGENCIES AS REQUIRED UNDER CHAPTER 163, PART II, FLORIDA STATUTES; PROVIDING FOR ADOPTION PURSUANT TO SECTION 163.3184(3), FLORIDA STATUTES; PROVIDING FOR INCLUSION IN THE CITY OF SUNRISE COMPREHENSIVE PLAN; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

The City Commission, in its capacity as the Local Planning Agency, will hold a public hearing on this proposed ordinance on <u>Tuesday, February 11, 2020</u> in the Commission Chambers at 10770 West Oakland Park Boulevard, 1st Floor, Sunrise, Florida, commencing at 4:45 p.m., in order to make recommendations to the local governing body (City Commission) regarding the proposed amendment. Upon the close of the Local Planning Agency hearing, a public hearing will be held by the Sunrise City Commission on <u>Tuesday, February 11, 2020</u> in the Commission Chambers at 10770 West Oakland Park Boulevard, 1st Floor, Sunrise, Florida, commencing at 5:00 p.m. The proposed ordinance may be inspected at the Community Development Department, 1601 NW 136th Avenue, Building A, Sunrise, Florida 33323, between the hours of 9:00 a.m. to 5:00 p.m. Monday through Friday.

The City does not tolerate discrimination in any of its programs, services or activities; and will not exclude participation in, deny the benefits of, or subject to discrimination anyone on the grounds of real or perceived race, color, national origin, sex, gender identity, sexual orientation, age, disability/handicap, religion, family or income status. In compliance with the ADA and F.S.S. 286.26, any individual with a disability requesting a reasonable accommodation in order to participate in a public meeting should contact the City's ADA Coordinator at least 48 hours in advance of the scheduled meeting. Requests can be directed via e-mail to hr@sunrisefl.gov or via telephone to (954) 838-4522; Florida Relay: 711; Florida Relay (TIY/VCO): 1-800-955-8771; Florida Relay (Voice): 1-800-955-8770. Every reasonable effort will be made to allow for meeting participation. For additional information please contact the Community Development Department at (954) 746-3281 or email AskZoning@Sunrisefl.gov.

If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based F.S.S. 286,0105. If you plan to distribute written documents at the meeting, you must provide 10 copies to the City Clerk prior to the start of the meeting.

AD WSP LPA-021120.P



BOYNTON BEACH Valencia Cove Highly sought after 2 bedroom + den Sophia model with \$40K in Upgrades!

Sopinia model with 340k m topgrades: Open floor plan great for entertaining & featuring 24 x 24 diagonally laid Tile floo ing, Crown molding & Designer window treatments, light fixtures & ceiling fans! Granite Kitchen offers 42" Chestnut abinetry with pullouts & Stainless appl ances. Luxurious master suite. Custon closets & Wood flooring in bedrooms & den. Extended pavered driveway & entry walkway. Tiled flooring in garage & Screened Patio meshed & floated to by some of the second s \$519,900





Valencia Cove Rarely available "Gibraltar" model with over \$70K in Upgrades! Builder's Premium Long Lake View lot with Western exposure. Quartz kitchen with White maple cabinetry, pullout drawers, tile backsplash & Stainless appliances. Abundance of recessed lighting, 24 x 24 diagonally laid tile flooring, Custom win-dow treatments, light fixtures & ceiling fans! Master suite offers custom built-ou closet cabinetry, Quartz countertops, Roman tub & frameless shower. Impac

windows, screened & pavered patio

overlooking Jushly landscaped Lakey

\$659,900

Keller Williams Realty

Harvey Dubov

561-542-7355

Homes-Single Family

SunSentinel.com/Classified



FORT LAUDERDALE - Manufactured homes. \$24,900-\$69,900. Easy terms, financing available, close to bus stop, 3 mi. to beach. Pool, fishing, low rent. New homes \$39,900-\$69,900, 3/2 Double Wide 18,000 down, \$890.25/mo. for 60 mos. Call 954-772-7616 or 754-366-0773 www.cypresscreekmobilehome.com

Condos/Townhomes/ **Multi-Family**



DELRAY BEACH

HUNTINGTON LAKES 55+ Guard Gated. Beautifully furnished turnkey 2BR/2BA PH. Excellent condion. Lakeview, huge clubhouse w/indoc neated pool, tennis, pickleball, billiards, 600+ seat theatre, fitness center and much more. \$172,000 Regency Realty Marjorie Miller 561-716-4646



1/1.5 FROM THE \$45s 2/2 FROM THE \$60s Never A Better Time To Buy

Best Game In Town For The Money

Merv Moss @ Re/Max (954) 444 - 7151

Active Adult Communities



4th Flr, Fully Renovated, Great Lake Views, Tiled, Cable, Water, Transportation, All Amenities Included, Enclosed Patio, \$1,395/Mnth Call ASAP 561-302-6618



4 Bedroom, 2 Full baths + two ½ Bath 3,200 Sq. Ft. home. This beauty sits on ½ 3,200 Sq. Ft. norme. This beauty sits on *i*₂ acre with bearing fruit trees and gardens Plus a 600 Sq. Ft. Cottage is featured on the property. Includes a large parking area for RVs and Boats. \$529,900.Call-Donna Fogel- 305.504.3388



Personal/Watercraft

Maritza Baez unit #007784; William Perez unit #00786; Lizbeth Torres unit #00825; Josefina Gonzalez unit #00928; Hec-tor Rafael Zarate/The Orange Network LLC unit #01065; Ricce J Marcano unit #01079: Julian Molina unit #01086: Yaser Alvarez Munoz unit #01087. This sale may be withdrawn at any time without notice. Certain terms and conditions apply. See manager for details. 7/4, 7/11/20 6702786

NOTICE OF SELF STORAGE SALE Please take notice US Storage Centers - Delray Beach located at 1425 SW 10th Street Delray Beach, FL 33444 intends to hold a sale to sell the property stored at the Facility by the below list of Occupants whom are in default at an Auction. The sale will occur as an online auction via www.usstoragecenters.com/auctions on 7/21/2020 at 10:00am. Unless stated otherwise the description of the contents are household goods and furnishings. Frandy Israel unit #00215; Alvaro Ramirez Hernandez unit #00257; Belicia Fantauzzi unit #00280; Gladys Joyce Clinton unit #00290; Juan Javier Ortiz unit #00315; Jonassaint Pierrlus unit #00322; Amelle Blanc units #00430 & #00466: Spencer Guy unit #00437. Randy Rumbold unit

in, deny the benefits of, or subject to dis-crimination anyone on the grounds of real or perceived race, color, national origin, sex, gender identity, sexual orientation, age, disability/handicap, religion, family or income status.

In compliance with the ADA and F.S.S. 286.26, any individual with a disability requesting a reasonable accommodation in order to participate in a public meeting should contact the City's ADA Coordinator at least 2 hours in advance of the scheduled emergency meeting, or as soon as you receive this notice. Requests can be directed via e-mail to heighests can be directed via e-filai to hr@sunrisefigov or via telephone to (954) 838-8522; Florida Relay; 711; Florida Relay (Voice): 1-800-955-8770; Florida Relay (Voice): 1-800-955-8770. Every rea-sonable effort will be made to allow for

Any person can submit written com-menting participation. Any person can submit written com-ments or evidence or other physical evidence which he or she intends to offer into evidence during the VAST CONFER-ENCE CALLING City Commission Meeting via email CityManager@sunrisefl.gov, or to the City Manager Soffice, 10770 West Oakland Park Boulevard, Sunrise,

FL 33351 The City of Sunrise will be conducting the July 14, 2020 City Commission Meeting via Vast Conference Calling call in num-Persons interested in attending via Vast Conference Calling can join the Meeting via a telephone conference call utilizing the details below

3. \$2000.00 4. Samsung phone- unknown model-(IMEI: 355744098225562)-black 5. Sentry Safe- serial # F68887534-black 6. Surface Watch with smashed screen-black

black 7. Stone bracelet -black and silver 8. Apple iPhone S-pink 9. \$1,100.00 10. Murray bicycle

11. Straus bicycle 12. City Glide scoote Mongoose BMX bicycle
 Vertical XG2 bicycle
 Susan Komen bicycle
 Huffy bicycle
 Huffy bicycle 16. Huffy bicycle 17. Hyper Havoc 5S bicycle 18. Avigo Pro 16 bicycle 19. Hyper Vision 26 bicycle 20. Apple iPad 21. Huffy Rock It bicycle

22. Mongoose Spire bicycle 23. Jamis Cross Country SX bicycle 24. \$160.00

This is property that has been lost or unclaimed and is currently at the City of Coral Springs Police Department, 2801 Coral Springs Drive, Coral Springs, FL, 33065. In the event that no person(s) claim interest in the listed property by July 6, 2020, the City of Coral Springs Police Department shall retain the property for its own use

ture female seeking same to rent rm. AC, pool & tennis cts. \$875/mo all util incl. Lv msg: 561-369-0105 Cell: 561-715-1696

DEL RAY BEACH - Furn'd Gorgeous 2 BR Apt. to share. Country Club Location, \$795/mo. Includes Everything.561-479-6706

FORT LAUDERDALE - Weekly \$300 & Up.; Motel. A/C, TV, microfridge, wi-fi. Near restaurants. Oakland Park/US1 954-565-1893 or Davie Blvd/US1 954-523-5280

POMPANO BEACH - Rm \$185/wk. 2wk dep. by Walmart stor#1517 954-494-4444



Homes-Single Family

BOYNTON BEACH

Long Lake Estates

ncredible Investment opportunity to ge nto this prestigious Boca Raton manne

5 Bedroom/4.5 bath 2 story home situated on one of the most desirable Builder's Premium Water lots with 166 Feet of DIRECT WATER FRONTAGE.

Breathtaking Northern exposure views

and sunsets, expansive back patio &

freeform pool overlooking lush tropical professionally designed and landscaped 1 Acre lot surrounded by multi-million-

dollar custom estate mansions! Endles

possibilities to Add-on Remodel or

home of a lifetime on one of the best lots in the entire community!

\$1,595,000

Keller Williams Realty

Harvey Dubov

561-542-7355

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for Sale?

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SunSentinel

ted exclusive community! Custom buil

OCA RATON

Indian Springs 55+. 3BR/2.5BA, 2 car, model home, many extras. No brokers. \$315,000. Call: 561-810-4505.











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Of Sunrise

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Advertiser

07/04/ Date Publication

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400455; Hannah Scalera unit #00529; Desmond Bernard Francis unit #00635; Paul Roland unit #00654; Marian Stew-art unit #00675; Christopher James Ronzo unit #00677: Doug Glenn Jenkins unit #00803: Julius Darnell Gatling unit 400819; Yvena Mondesir unit #00859; Hermes Ferreira Campos unit #00872; Karen White unit #0510B. This sale may be withdrawn at any time without notice Certain terms and conditions apply. See for details 7/4, 7/11/20 6702790

NOTICE Palm Bch Sheriff, BSO, & City of Boca Raton Vehicles available to the public at auction On 7/21/20 5353 South State Rd 7 Davie Fl 33314 a \$1000 certified refundable Deposit required before viewing & bidding Must call 954-791-3520 for instructions To register, pay & view vehicles 2008 FORD ESCAPE 1FMCU03128KA33583 7/04, 7/05, 7/06/2020 6710955

Miscellaneous

NOTICE OF PUBLIC HEARING

The following item will be presented to the City Commission, City of Sunrise, Florida on:

July 14, 2020 at 5:00 p.m. This meeting will be conducted by Vast Conference Calling

pursuant to Executive Order 20-69 as extended by the Governor's subsequent Ex-ecutive Orders. Dial in number: 954-395-2401 Access Code: 368262. Attendees can press 5* on their phone keypad to make a comment during public hearings or during open discussion. Attendees wil be called upon to speak, one at a time, by the meeting organizer.

This item will be on file in the Office of the City Clerk and may be reviewed Mon-day through Friday, 9:00 a.m. to 5:00 p.m. C20024

AN ORDINANCE OF THE CITY COMMIS-SION OF THE CITY OF SUNRISE, FLORIDA

Dial in number: 954-395-2401 Access Code: 368262 Attendees can press 5* on their phone keypad to make a comment during public hearings or during open discussion. At-tendees will be called upon to speak, one at a time, by the meeting organizer. For technical difficulties, please call 954 747-4661.

The meeting documents will be available for public inspection at City of Sunrise, Commission Chambers, 10770 West Oak-land Park Boulevard, Sunrise, FL 33351. Any interested person can call 954-746 3430, email CityManager@sunrisefi.gov, or write to City Manager/s Office, 10770 West Oakland Park Boulevard, Sunrise, FL 33351 for more information. Under the Governor's Executive 20-69 as extended by the Governor's subsequent Executive Orders, if a public meeting, hearing, or workshop is to be conducted by means of communications media technology, or if attendance may be provided by such means the notice shall so state. The notice for public meetings, hearings, and workshops utilizing com-munications media technology shall state how persons interested in attending may do so and shall name locations, if any, where communications media technology facilities will be available. Nothing in this paragraph shall be construed to diminish the right to inspect public records under 7/4/20 6702797

IN THE CIRCUIT COURT FIFTEENTH JUDICIAL CIRCUIT IN AND FOR PALM BEACH COUNTY, FLORIDA FILE NUMBER: 50-2020-CP-001774-XXXX-MB IN RE: THE ESTATE OF:

BRENT DOUGLAS MYNHIER, Deceased

All claims for the listed property shall be made to Sheila Lustigman, 2801 Coral Springs Drive, Coral Springs, FL, 33065, 54-346-1282 6/27, 6/28, 7/4, 7/5/2020 6703508 **Real Estate for Rent** 111

Apartments, Condos Multi-Family

CORAL SPRINGS - 2/2, Must See, new flooring, new paint, spotless, water incl No pets. \$1200/mo. Call 954-802-2661

DAVIE - Furnished 1 Bed/1 Bath cottage with porch \$900/mo +security. CI:954-695-7045 , leave message

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Call Classified For Your Advertising Opportunities! 1-800-250-2000



YAMAHA JET SKI - 4 PASSENGER TURBOJET - Low 40 Hours. PRICE REDUCED !! \$10,900. Call 561-676-1912 iew lot. 24/7 guard gated active adult luxury community with elaborate social & sports lifestyle. HOA fee includes cable internet, lawn & alarm. Motivated Seller

Yachts

2018 HATTERAS 63GT - Sportfisherman with full Tuna tower - extensive equipment. Best maintenance! Must sell now! Asking: \$2.9M Call: 954-319-3259

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SUN SENTINEL are effective and affordable. **Move Toward Success Call Classified** DELRAY BEACH 1-800-250-2000

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esigner decorated 2 BR+Den ''Massina model with pavered screened lanai & 1CG. Granite kitchen with custom White cabinetry, SS appliances, center Island & snack bar. Tile flooring thru-out, tons of high hat lighting, custom Built-ins, Fireplace, custom mirror, Crown moldings & Plantation shutters! Luxurious master bath with dual sinks. Roman tub and Frameless shower. Designer window treatments, light fixtures & ceiling fans. Impact windows & Hurricane lead glass entry door! 24/7 manned gated security alarm service and lawn care included. 38,000 SF Cabana Club, 3 Pools, Spa, Tennis, Bocce ball, Café, Fitness Center Exercise Room, Arts & Crafts, Billiards and Grand Ballroom/Theatre!

\$359,900 **Keller Williams Realty**

561-542-7355

Harvey Dubov

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for you

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or services?

to get your Marine ad noticed

CITY OF SUNRISE NOTICE OF COMPREHENSIVE PLAN AMENDMENTS

The City of Sunrise proposes to adopt the following ordinance:

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF SUNRISE, FLORIDA TO ADOPT AN AMENDED 10-YEAR WATER SUPPLY FACILITIES WORK PLAN AND TO AMEND THE CITY OF SUNRISE COMPREHENSIVE PLAN TO STRENGTHEN COORDINATION BETWEEN WATER SUPPLY AND LOCAL LAND USE PLANNING BY AMENDING THE TEXT CONTAINED IN INFRASTRUCTURE, CAPITAL IMPROVEMENTS, AND INTERGOVERNMENTAL COORDINATION ELEMENTS; PROVIDING FOR TRANSMITTAL OF CERTIFIED COPIES OF THIS ORDINANCE AND COMPREHENSIVE PLAN AMENDMENTS TO THE FLORIDA DEPARTMENT OF ECONOMIC OPPORTUNITY AND ALL OTHER UNITS OF LOCAL GOVERNMENT OR GOVERNMENTAL AGENCIES AS REQUIRED UNDER CHAPTER 163, PART II, FLORIDA STATUTES; PROVIDING FOR ADOPTION PURSUANT TO SECTION 163.3184(3), FLORIDA STATUTES; PROVIDING FOR INCLUSION IN THE CITY OF SUNRISE COMPREHENSIVE PLAN; PROVIDING FOR CONFLICT; PROVIDING FOR SEVERABILITY; AND PROVIDING FOR AN EFFECTIVE DATE.

The City Commission will be conducting a public hearing on this Ordinance on <u>Tuesday, July 14, 2020</u> commencing at 5:00 p.m. via Communication Media Technology (CMT), pursuant to Executive Order No. 20-69, as extended by the Governor's subsequent Executive Orders, using Vast Conference Calling. Persons interested in attending can join via conference call as early as fifteen (15) minutes before the start time utilizing the details below:

a. Call: (954) 395-2401 b. Access Code: 368262

Attendees can press 5* on their phone keypad to make a comment during public hearings or during the open discussion. Attendees will be called upon to speak, one at a time, by the meeting organizer. For technical difficulties please call (954) 747-4661.

The proposed ordinance may be requested by any and all interested parties between the hours of 9:00 a.m. to 4:30 p.m. Monday through Friday (excluding City holidays) via AskZoning@sunrisefl.gov.

The City does not tolerate discrimination in any of its programs, services or activities; and will not exclude participation in, deny the benefits of, or subject to discrimination anyone on the grounds of real or perceived race, color, national origin, sex, gender identity, sexual orientation, age, disability/handicap, religion, family or income status. In compliance with the ADA and F.S.S. 286.26, any individual with a disability requesting a reasonable accommodation in order to participate in a public meeting should contact the City's ADA Coordinator at least 48 hours in advance of the scheduled meeting. Requests can be directed via e-mail to hr@sunrisefl.gov or via telephone to (954) 838-4522; Florida Relay: 711; Florida Relay (TIY/VCO): 1-800-955-8771; Florida Relay (Voice): 1-800-955-8770. Every reasonable effort will be made to allow for meeting participation. For additional information please contact the Community Development Department at (954) 746-3281 or email AskZoning@Sunrisefl.gov.

Any person can submit written comments or evidence or other physical evidence which he or she intends to offer into evidence during the Vast Conference Calling City Commission Meeting via email to CityManager@sunrisefl.gov, or to the City Manager's Office, 10770 West Oakland Park Boulevard, Sunrise, FL 33351. If a person decides to appeal any decision made by the board, agency, or commission with respect to any matter considered at such meeting or hearing, he or she will need a record of the proceedings, and that, for such purpose, he or she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based F.S.S. 286.0105.

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AD CCM-071420 - WATER SUPPLY PLAN