

Proposed Budget 2019-20 Workshop

Presented by: Charles F. Dodge

August 21, 2019

- During the summer, Capital for the Utility Fund was reduced by approximately \$3.0 million and a few projects moved forward to FY2020-21.
- The impact would reduce the Water & Sewer rates by 5.06%. This rate • reduction would be comprised of forgoing a CPI increase of 3.24% as well as an additional 1.82% below current year rates.
- The monthly bill for a single family residence using the minimum 3,000 ۲ gallons will decrease by \$0.75 per month or \$9.00 for the year.
- The revised minimum monthly rate proposed is \$40.63 compared to the lacksquarecurrent rate of \$41.38. The revised rate would be \$0.55 per month higher than the rate we had 2 years ago in FY2017-18.
- Water and Sewer revenues will decrease by \$3.1 million as a result of this • rate reduction. 2

- Approximately 73% of Utility Fund Budget is comprised of operating expenses. This includes but is not limited to contractual services; operating chemicals; repairs and maintenance to operate the system.
- Approximately 21% of the Utility Budget is for Capital Expenses, to replace aging infrastructure; and
- The remaining 6% is for personnel and debt service expenses.

FIVE-YEAR CAPITAL IMPROVEMENT PLAN COMPARISON

	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	<u>FY2023-24</u>
FY2018-19 CIP	\$ 11,585,000	\$ 20,426,400	\$ 23,199,000	\$ 22,017,000	\$ 21,117,000	-
FY2019-20 CIP	-	15,511,000	19,803,733	18,758,000	18,030,000	17,232,000
CHANGE		(4,915,400)	(3,395,267)	(3,259,000)	(3,087,000)	



Div. 6010 - Utilities Admin Services

62000 - Buildings

Description: Health Park Building 67 (Polk Building) Conversion

Location: 8200 South Palm Drive

Justification: Reconstruction of the abandoned Polk Building to create new space needed for:

- Customer Service including 50% more space, additional sit-down window tellers and payment drive-through.
- ✓ Secondary Emergency Operations Center (EOC).
- Additional space for utility support staff.
- ✓ Additional space for engineering support staff.
- New accommodations for City-wide GIS staff.

Proposed Capital Budget =. \$1,410,000 Funding Source = General Revenue*







Div. 6021 – Sewer Collection

62000 - Buildings

Description: Equipment Storage Facilities (50% cost sharing with 6032).

Location: City-wide as needed.

Justification: New construction of a metal covering (canopy) for Utilities and Public Services in order to protect and extend the useful life of City owned generators and heavy equipment.

Proposed Capital Budget = \$540,000 Funding Source = General Revenue







Div. 6021 – Sewer Collection

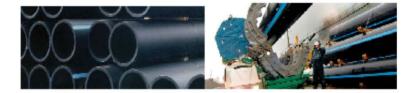
63065 - Force Main

Description: Future Undetermined Force Main Replacements.

Location: As needed-where needed.

Justification: Ongoing repairs or modifications needed due to poor sewage Force Main performance.

Proposed Capital Budget = \$100,000 Funding Source = General Revenue











Div. 6021 - Sewer Collection: 812 Lift Station

63122 - Lift Station

Description: Lift Station Upgrade/Improvements/Purchase

Location: City-wide as needed.

Justification: Annual on-going sewage pump station and lift station replacements and rehabilitations throughout the City. Purchase of Lift Station pump assembly's per year as needed and conversions.

Proposed Capital Budget = \$1,326,000 Funding Source = General Revenue





Div. 6021 – Sewer Collection

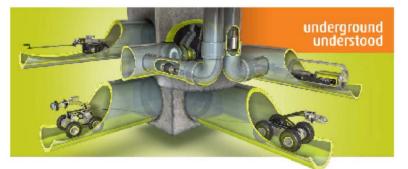
63192 - Sewer Lines

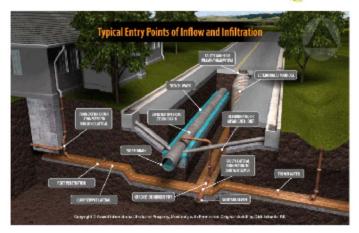
Description: Sanitary Sewer Lines Rehabilitation - To Be Determined.

Location: City-wide

Justification: The purpose of this work is for the renovation of aging infrastructure within sanitary sewer lines. This will lead to I&I improvements to these pipes in the following years which will result in reduced sewage flow to the City of Hollywood and the Pines WWTP as well as reduced maintenance at City pumping stations and reduced customer complaints.

Proposed Capital Budget = \$1,500,000 Funding Source = General Revenue





\$250,000



Div. 6021 - Sewer Collection

64073 - Generator

Description: Stationary Generator and Switchgear

Location: Master 4 LS

Justification: Needed for Emergency Back-Up Power.

FY 2019-20 Proposed Capital Budget =

Funding Source = General Revenue





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Div. 6021 – Sewer Collection

64400 - Other Equipment

Description: Other Equipment

Location: Lift Stations

Justification: Annual updating and maintenance of the SCADA monitoring system, replacement of pumps, generators tanks, as well as small equipment such as pumps, hoses, etc.

FY 2019-20 Proposed Capital Budget = \$310,000

Funding Source = General Revenue











Div. 6022 - Sewer Treatment Plant

62000 – Buildings

Description: East Blower Building Rehabilitation

Location: Waste Water Treatment Plant

Justification: Any improvements, repairs or upgrades that might be needed to guarantee the continuous performance of the Wastewater Plant. Renovations due to age.

Proposed Capital Budget =	\$50,000	Funding Source	General
			Revenue









Div. 6022 - Sewer Treatment

63000 – Improvement Other Than Building

Description: Improvements and upgrades to Sewer Treatment Plant (BCR building and system).

Location: Wastewater Treatment Plant

Justification: Modifications and or improvements to the Sewer Treatment Plant to assure an optimal performance.

Proposed Capital Budget =

\$150,000 Funding

Funding Source = General Revenue







Div. 6022 – Sewer Treatment Plant: 834 Plant Rehabilitation

63183 - Sewer Treatment Plant Rehabilitation

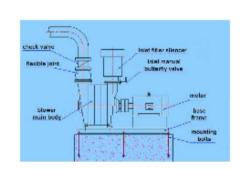
Description: Rehabilitation of Waste Water Treatment Plant

Location: Wastewater Treatment Plant

Justification: Air Blowers function is to fulfill oxygen demands and maintain the treatment process. This item includes installation of stand-by air blowers for the east half of the Waste Water Treatment Plant as well as headworks equipment refurbishment.

Proposed Capital Budget = \$650,000 Funding Source = General Revenue









Div. 6022 - Sewer Treatment Plant

64400 - Other Equipment

Description: Waste Water Treatment Plant repair and capital maintenance items.

Location: Wastewater Treatment Plant

Justification: The Waste Water Treatment Plant is in need of replacement of the effluent pumping electrical equipment, SCADA upgrades and unforeseen WWTP equipment plus replacements and renovations.

Proposed Capital Budget = \$1,270,000 Funding Source = General Revenue





Div. 6031 - Water Plants

63000 - Improvement Other Than Building

Description: Construct New Lime Feed System-Lime Sludge Storage Improvement Plan and Future Undetermined WTP Operational Rehabilitation.

Location: Water Plants

Justification: The Water Treatment Plant is in need of a new Lime Feed System as the existing system has reached its useful life and must be replaced. Modifications to the existing lime storage system is also needed.

Proposed Capital Budget = \$2,120,000

Funding Source = General Revenue







Utility Capital Budget Highlights

FY 2019-2020



Div. 6031 – Water Plants

63250 - Water Well

Description: Rehabilitation of Raw Water Well #6

Location: Water Plants

Justification: Well # 6 is located at the eastern well field and if its performance and capacity needs to be increased.

\$150,000

Proposed Capital Budget =

Founding Source =

General Revenue





Utility Capital Budget Highlights

FY 2019-2020



Div. 6031 – Water Distribution

63993 – Other Equipment

Description: Improvements Other - Rehabilitation of Treatment Unit A with Launders

Location: Water Plants

Justification: Treatment Unit A is in need of regularly scheduled rehabilitation including metal work, repairs and painting.

Proposed Capital Budget =

\$1,180,000 Funding Source =

General Revenue









Div. 6031 - Water Plants

64400 - Other Equipment

Description: Other Equipment needed at the Water Plant.

Location: Water Treatment Plant

Proposed Capital Budget = \$475,000 Funding Source = General Revenue

Justification: Our current SCADA system is outdated and is need of updating as it does not meet the needs of the Water Treatment Plant. We are recommending and requesting standardization on the same SCADA software for all three processes; Lift Stations Monitoring and Control, Water Treatment Plant and Waste Water Treatment Plant.



The water treatment plant is in need of a new effluent flowmeter to measure treated water going to the storage tanks. A new effluent flowmeter will allow a water balance to be performed and a more accurate water calculation to be performed. Additionally, new flow meters for the well water coming into the Water Treatment Plant. This will allow a more balanced and accurate water loss calculation to be performed.



Utility Capital Budget Highlights

FY 2019-2020



Div. 6032 - Water Distribution

62000 Buildings

Description: Equipment Storage Facilities (50% cost sharing with 6021).

Location:

Justification: New construction of a metal covering (canopy) for Utilities and Public Services in order to protect and extend the useful life of City owned generators and heavy equipment.

Proposed Capital Budget = \$540,000 Funding Source = General Revenue







Div. 6032 - Water Distribution

63062 - Fire Hydrants

Description: Replacement Hydrant Program.

Location: Utilities

Justification: New fire hydrants for improved fire protection and for replacement of damaged hydrants and those which have reached their useful life.

Proposed Capital Budget = \$25,000 Funding Source = General Revenue







Div. 6032 – Water Distribution

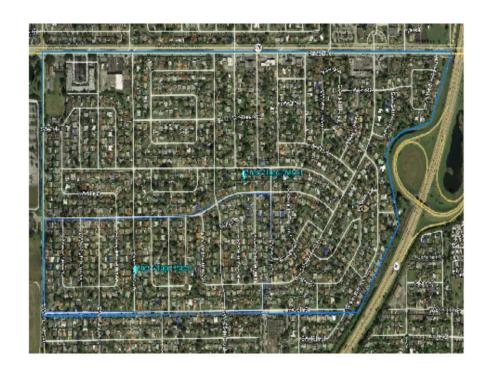
63233 Water Main

Description: Water Main Improvements at Pines Village Phase 2a.

Location: Pines Village Phase 2a

Justification: Known as the southwest section, this neighborhood lies between Pines Blvd, SW 9th St, Turnpike and SW 72nd Ave. The water main pipes in this neighborhood require replacement due to their age, frequent breaks and customer service complaints due to poor service. Water meters are often located in the rear yards with inadequate piping and should be relocated to the front yards on new, larger water mains.





Utility Capital Budget Highlights

FY 2019-2020



Div. 6032 - Water Distribution

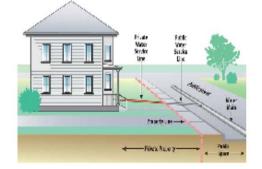
63233 Water Main

Description: Future Undetermined Water Main Replacement

Location: City Wide

Justification: Water Main improvements are needed to upgrade infrastructure with new water mains and connections to decrease interruption of service. Specific areas of improvement will be identified.

Proposed capital budget - 5250,000 Funding Source = General Reven	Proposed Capital Budget =	\$250,000	Funding Source =	General Revenu
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Div. 6032 - Water Distribution

64400 - Other Equipment

Description: Equipment for Utilities Department use.

Location: Throughout City Utility System

Justification: Purchase of equipment needed for the Utilities Department. Tools and equipment need for lift station crews.

Proposed Capital Budget =

Funding Source =

General Revenue



\$55,000





City of Pembroke Pines, FL

Utility Revenue Sufficiency Analysis

August 21, 2019







Agenda

- 1. Introduction
- 2. Background & Objectives
- 3. Financial Planning Process
- 4. Key Assumptions
- 5. Results
- 6. National Trends
- 7. Local Cost Comparison

Introduction

Introduction

Stantec

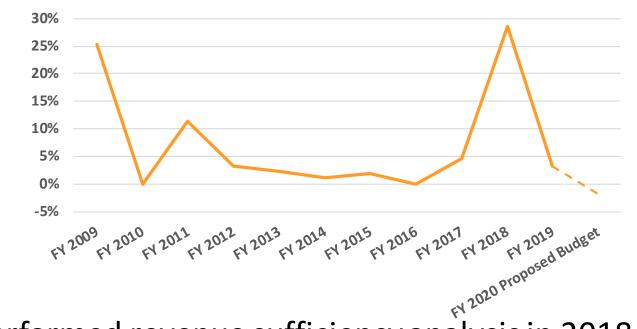


- Our Financial Services team provides financial forecasting & rate services to local governments
 - 30+ professionals with over 300 years of experience
 - Dynamic interactive modeling tools to help decision support processes
- Industry leaders in water resources
- Performed revenue sufficiency analysis for City in 2018
- Recent rate studies performed:
 - Fort Lauderdale, Coral Springs, Fort Myers, Cape Coral, Naples, Venice, Lake Worth Beach, Palm Bay, Cocoa, St. Petersburg, and others

Background & Objectives

Background & Objectives

• Historical water & wastewater rate adjustments





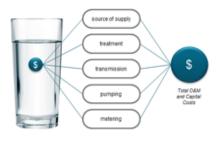


- Performed revenue sufficiency analysis in 2018
- Study objectives
 - Update multi-year financial management plan
 - Perform local cost comparison for the typical residence

Financial Management Planning

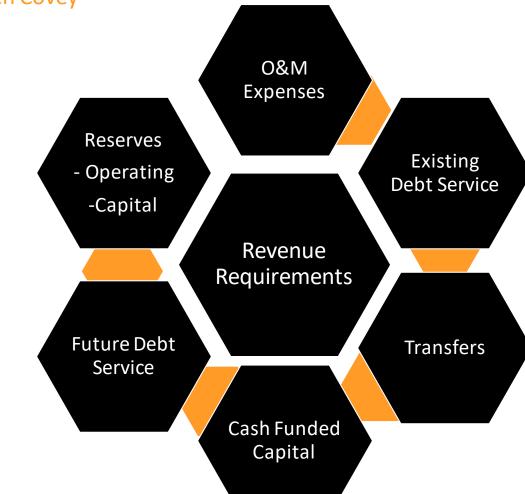
Revenue Sufficiency is Forward Looking

"Your most important work is always ahead of you, never behind you." -Stephen Covey



Revenue Requirements

Answers the question, "How Much?"



Revenue requirements = full costs of providing service

Capital improvements = most significant driver

Reserves & financial policies are integral component

Financial Management Plan

Key Performance Indicators & Best Practices

Indicative of financially strong system per rating agency criteria

- Maintain Sufficient Reserve Balances
 - Operating Reserve: 9 months of O&M expenses (approx. \$39M in FY 2020)
- Maintain Sufficient Debt Service Coverage
 - Target: net revenues 2.0X annual debt service
- Balance Capital Needs & Customer Affordability
 - Fund CIP while minimizing increases to customer's bills
- Proactive financial management & rate planning









Key Assumptions/Drivers

FY 2020

Proposed Operating and Capital Budget

\$98 M 5-year CIP 3.4%

0.8%

Annual Average Operating Cost Increases

Projected Annual Growth in

Water & Wastewater Accounts

3.0%

Annual Capital Program Cost Inflation **\$40 M** New Water Plant (FY 2025 – 2028) Scenarios

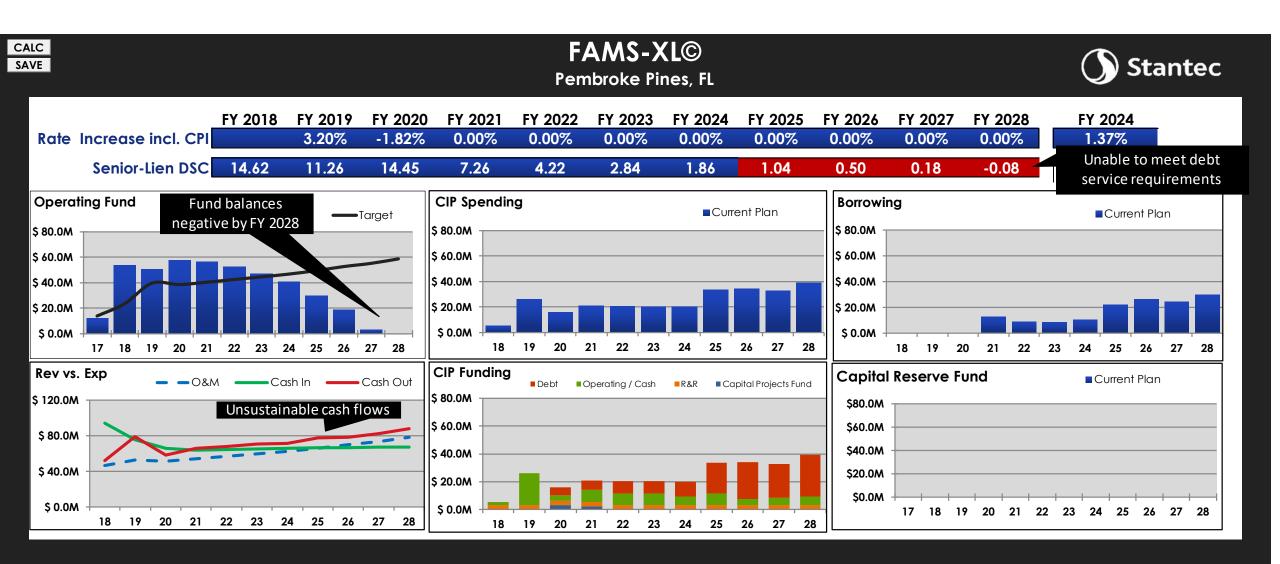
Financial Management Plan: Scenarios

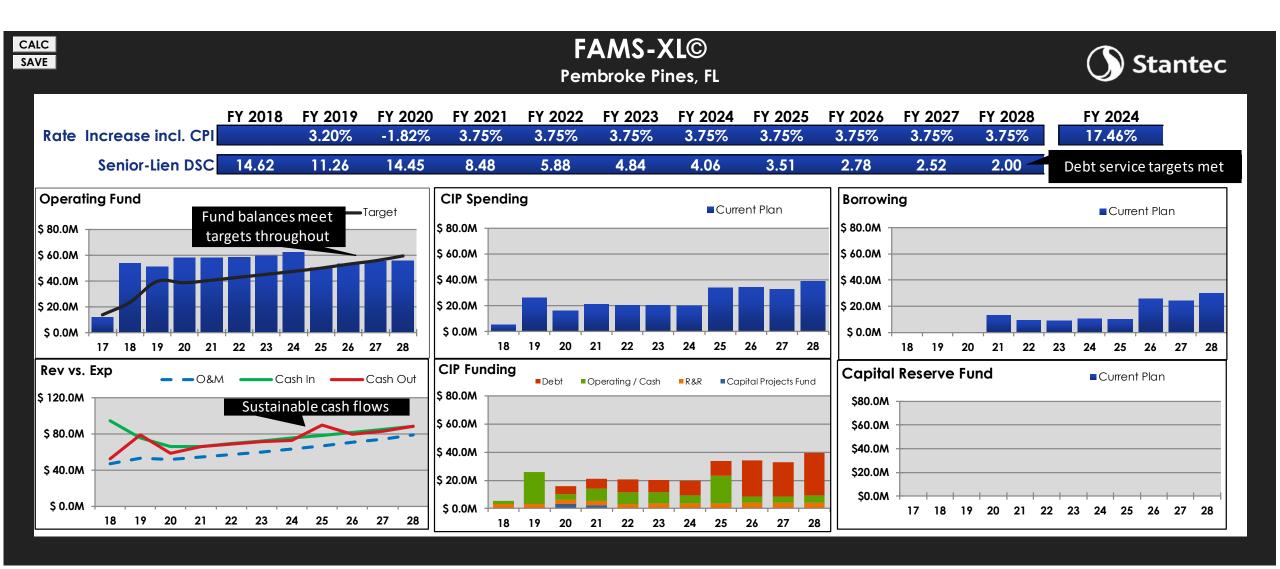
"What-if"....

No rate increases?

Recommended plan?



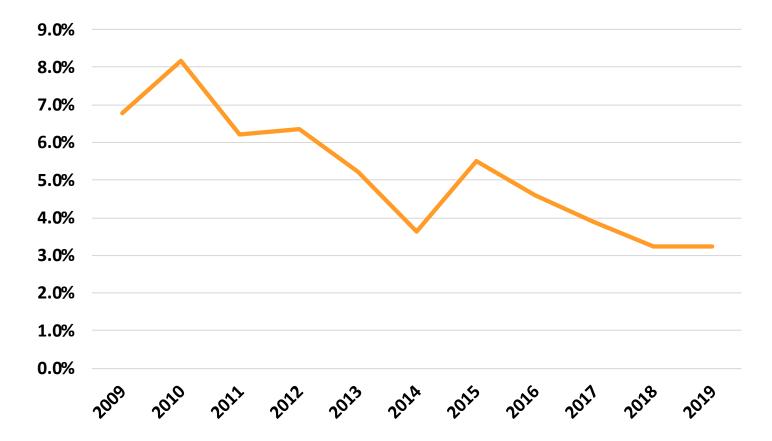




National Industry Trend

National Industry Trend

US CPI - Water & Sewerage Maintenance Series



Measures the national average change in the cost of water & sewer service to households
10 – year average increase = approx. 5.0%

Local Bill Comparison

FY 2019 Residential Monthly Water/Wastewater Bill Comparison @ 3,000 Gallons

Combined Water & Sewer Bill Survey @ 3,000 Gallons Per Month - FY 2019

Davie	\$92.55
Wilton Manors	\$79.21
Sunrise	\$75.30
Oakland Park	\$71.95
Dania Beach	\$70.72
Hillsboro Beach	\$69.30
Parkland	\$66.33
North Lauderdale	\$64.15
Cooper City	\$58.39
Miramar	\$57.38
North Springs Improvement District	\$56.97
Hallandale Beach	\$55.14
Margate	\$54.60
Broward County	\$53.74
Coral Springs	\$53.53
Plantation	\$53.42
Coconut Creek	\$53.06
Hollywood	\$51.58
Tamarac	\$50.23
Lauderhill	\$46.77
Royal Utility	\$45.59
Pompano Beach	\$42.78
Deerfield Beach	\$42.06
Pembroke Pines	\$41.38
Coral Springs Improvement District	\$38.07
Fort Lauderdale	\$37.91

Conclusions & Recommendations



- Existing rates/revenues do not meet projected long-term financial obligations
- Current rates show favorable bills for the typical residential customer compared to neighboring systems
- Recommendations:
 - Consider annual rate indexing plan of 3.75% beg. in FY 2021
 - Multi-year approved rate plan or annual indexing demonstrates focus on long-term planning & best management practices to stakeholders
 - Annually evaluate & adjust rate plan as necessary for changes in capital spending, growth, etc...



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Thank You!

Questions/Comments



Presented by: Charles F. Dodge August 21, 2019