



Agenda

- Rate Study Overview
- Revenue Sufficiency
- Discussion of Results

Rate Study Process

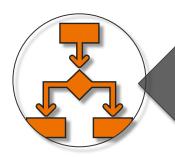
How Much?



Revenue Sufficiency

- Achieve financial policies & targets
- Fund system investment needs
- Sustainably fund operations

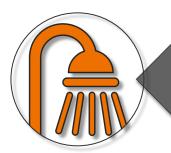
From Whom?



Defensible Allocation Methods

- Utilize industry accepted approaches
- Maintain inter and intra class equity
- Determine correct and appropriate units of service

How to Collect?



Simple, Equitable & Sustainable Rates

- Balance affordability and financial objectives
- Accomplish revenue stability
- Clear communication of costs

Current FY 2023 Proposal

- Water usage rate adjustment of 11.00%
- Sewer usage rate adjustment of 12.50%
- Rate increases will support needed capital investments, many of which will ensure continued regulatory compliance

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Revenue Sufficiency

Revenue Sufficiency Components



Core Assumptions

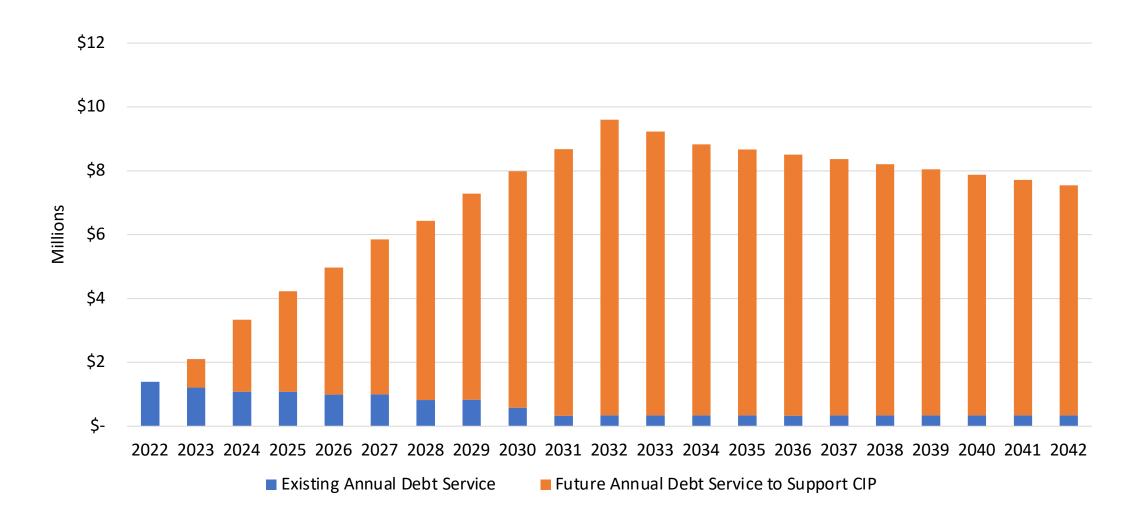
- Utility Funds receive \$2M annually in stabilization contributions
- MWRA cost will escalate at an average rate of 3-4% per annum
- Capital investment plan utilizes debt financing*
- FY23 Sewer Budget incorporates additional MS4 costs
- Maintaining reserve balances to preserve flexibility
- Assuming 100% spending of operating and capital expenses

^{*}Interest rates on future borrowing are higher than prior year analysis given rising interest rate environment

Primary Water CIP (\$M)

Water Projects	FY 22 to FY 32
Somerville Ave. Utility & Streetscape Improvements	\$4.0
Lead Line Replacement Program	\$26.1
Water Main Rehab and Replacement	\$75.8
Pitman St Water Improvements	\$1.1
Water Meter Replacement	\$7.0
Spring Hill Sewer Separation - Water Line Improvements	\$8.2
Boynton Yards	\$7.4
Total	\$129.6

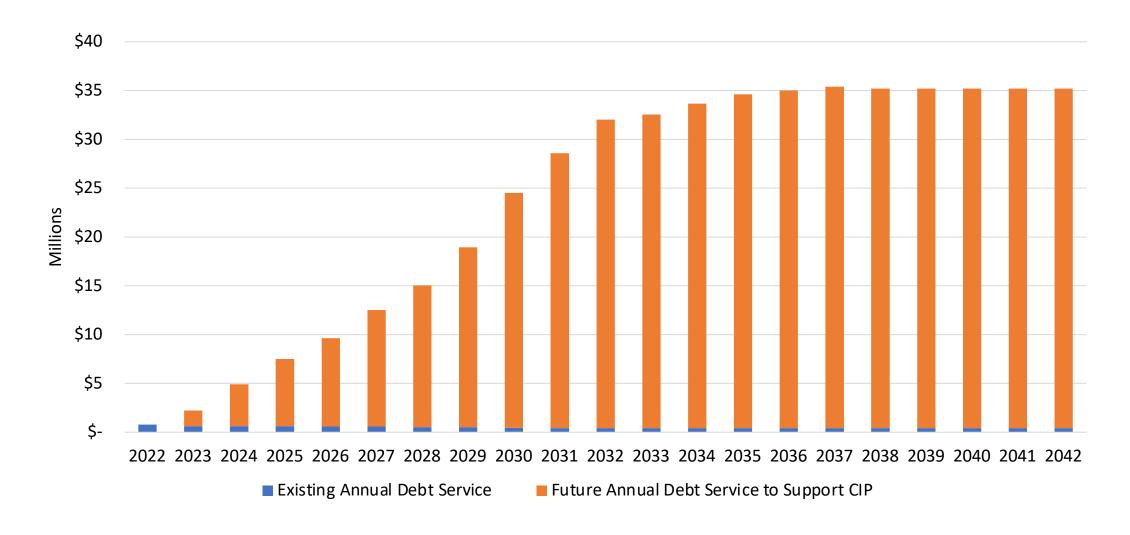
Water Annual Debt Service



Primary Sewer CIP (\$M)

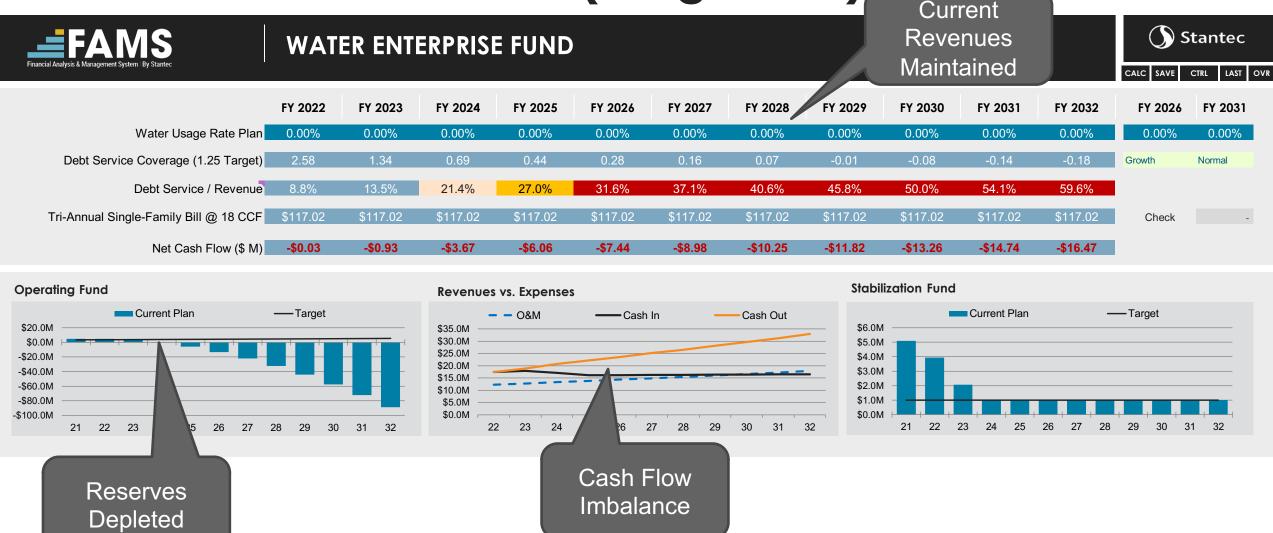
Sewer Projects	FY 22 to FY 32
Somerville Ave. Utility & Streetscape Improvements	\$39.5
Poplar St. Stormwater Pump Station	\$83.4
Spring Hill Sewer Separation	\$20.7
Sewer Improvements	\$58.4
Somerville Marginal Interceptor Rehabilitation	\$3.0
SSES & I/I Assessment	\$12.4
Willow to Grove Sewer Replacement	\$3.4
Flint St. Sewer Replacement	\$3.4
Sewer Separation Projects	\$220.1
Boynton Yards	\$47.5
Total	\$491.8

Sewer Annual Debt Service





Water Control Panel (Diagnostic)





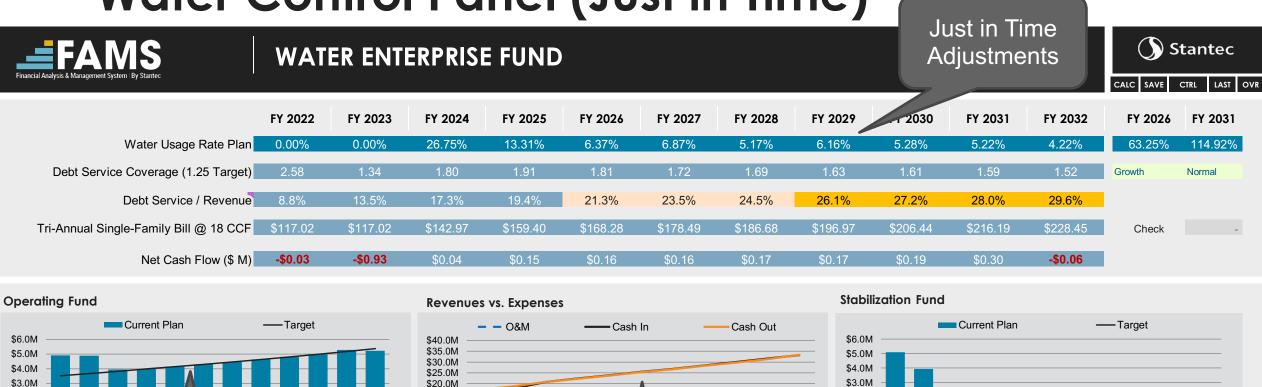
Water Control Panel (Just in Time)

\$15.0M

\$10.0M

\$5.0M

\$0.0M



\$2.0M

\$0.0M

24 25

26 27

28

29

31

Reserves Maintained 27 28

29 30 31 32

21 22 23 24

Sustainable Cash Flow 29

30

31

32

25

24

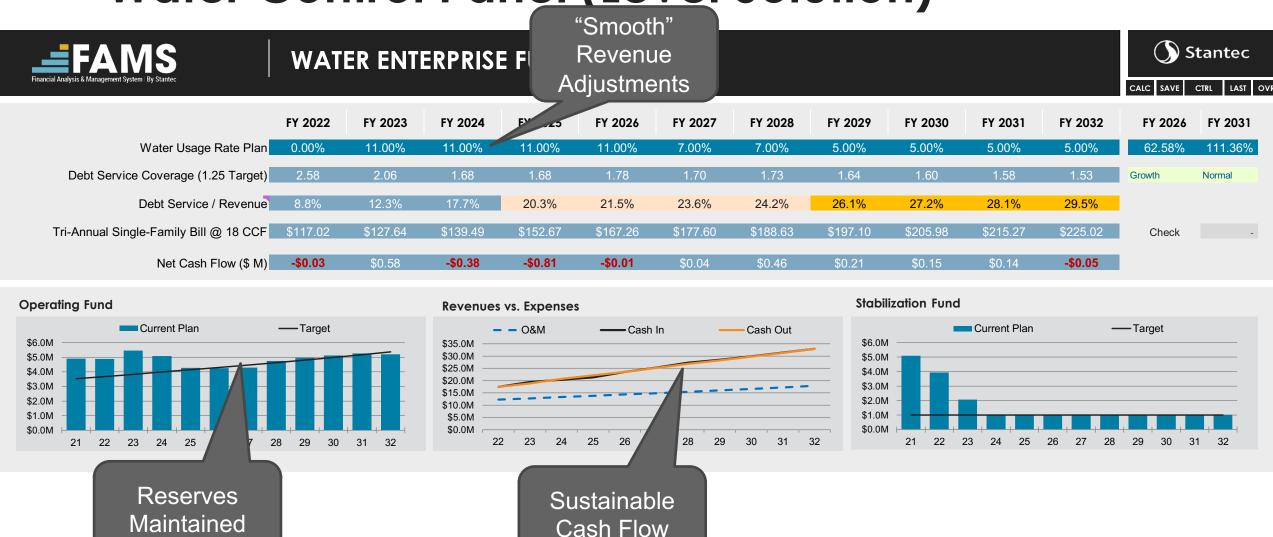
\$2.0M

\$1.0M

\$0.0M

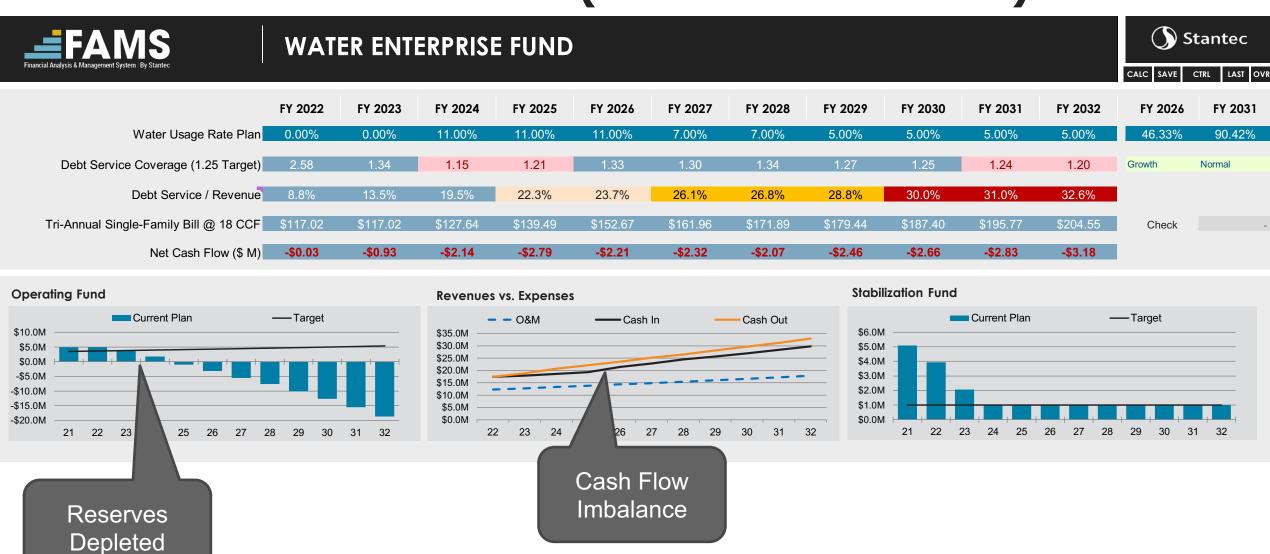


Water Control Panel (Level Solution)



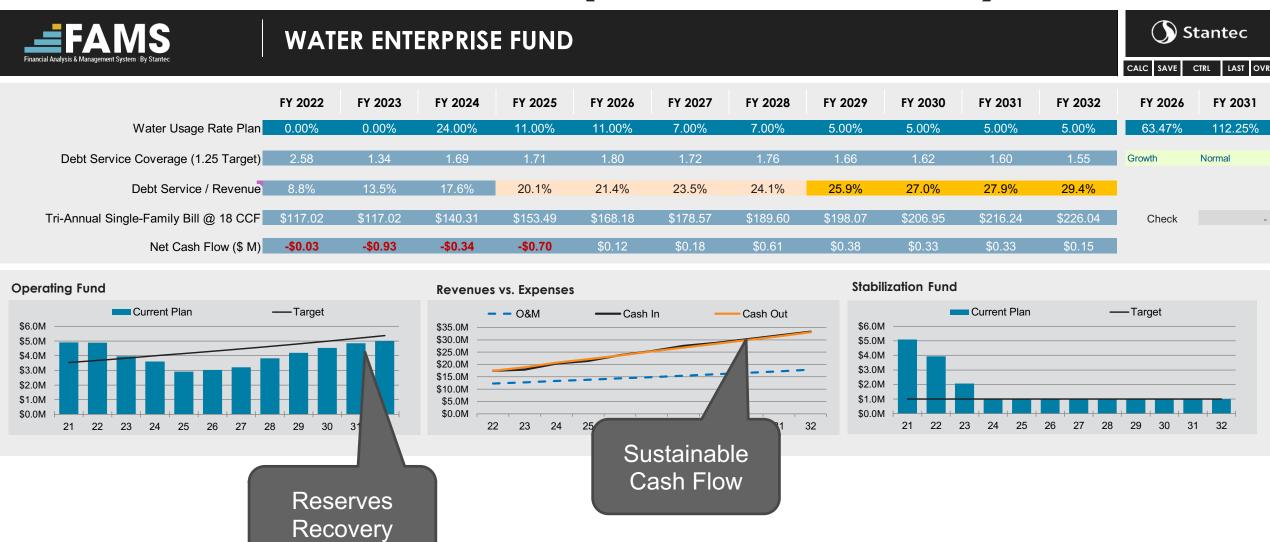


Water Control Panel (No FY 23 Increase)



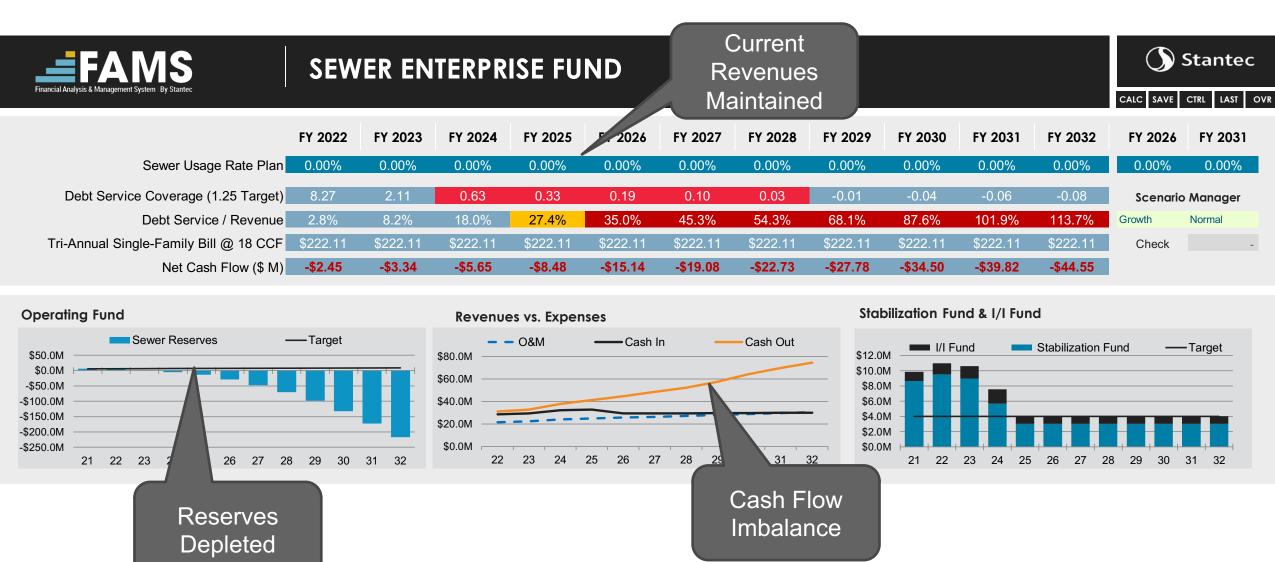


Water Control Panel (FY 24 Alternative)



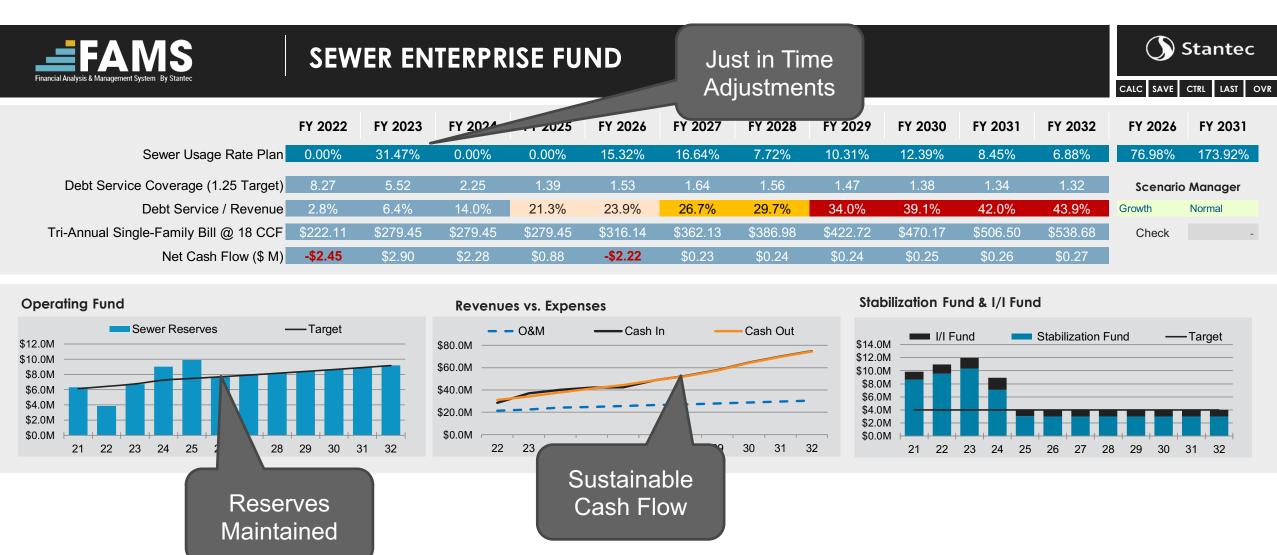


Sewer Control Panel (Diagnostic)



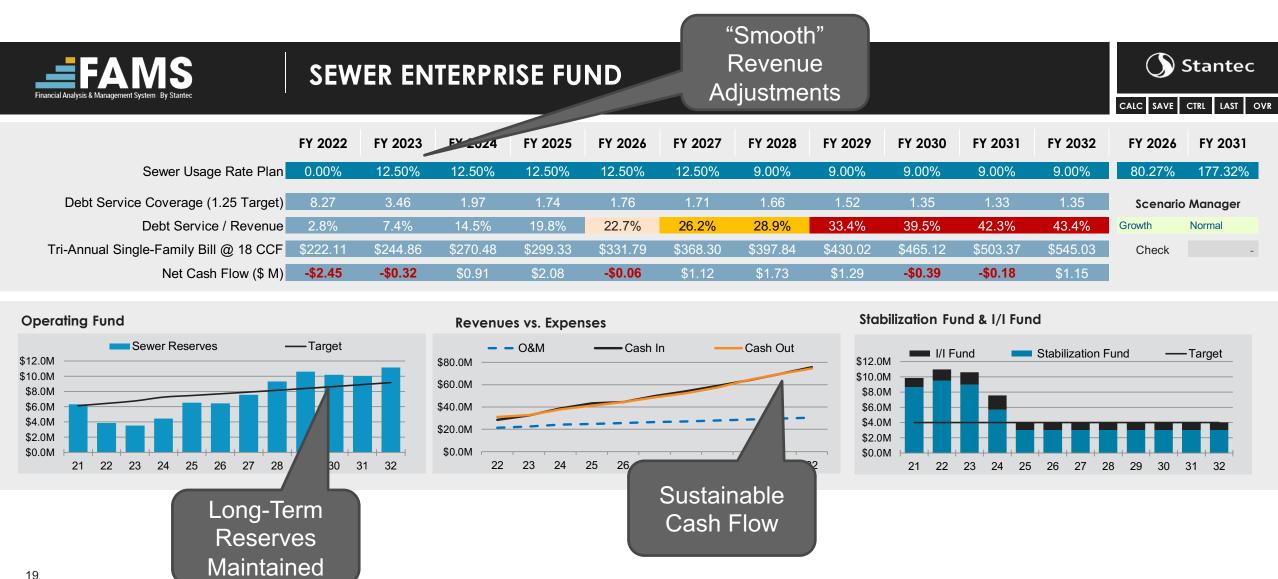


Sewer Control Panel (Just in Time)





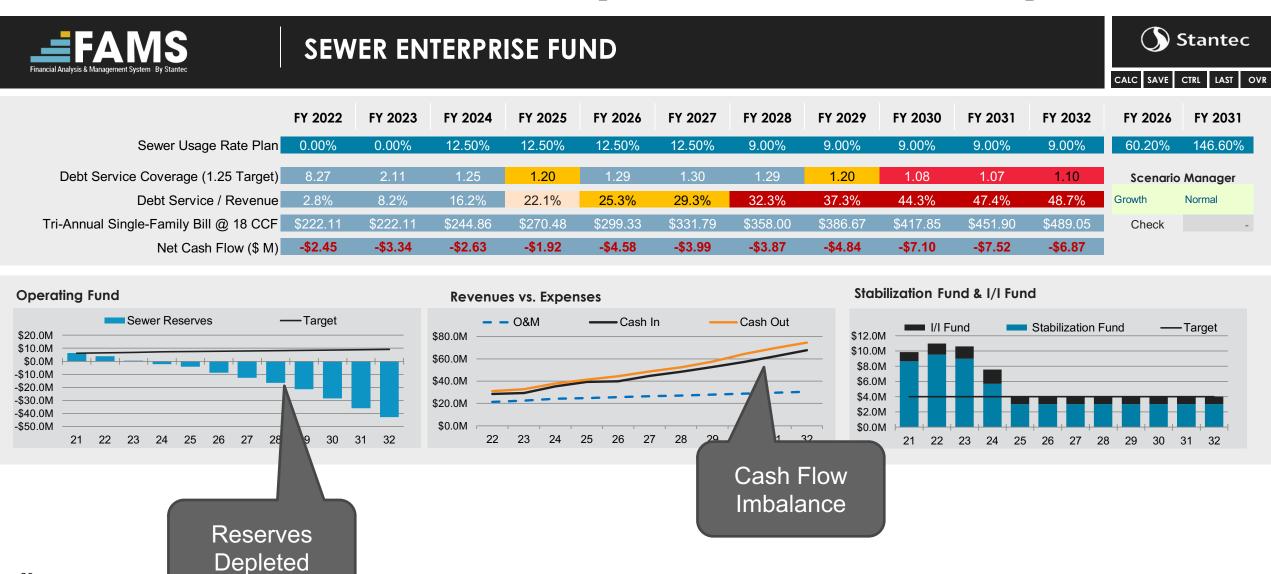
Sewer Control Panel (Level Solution)





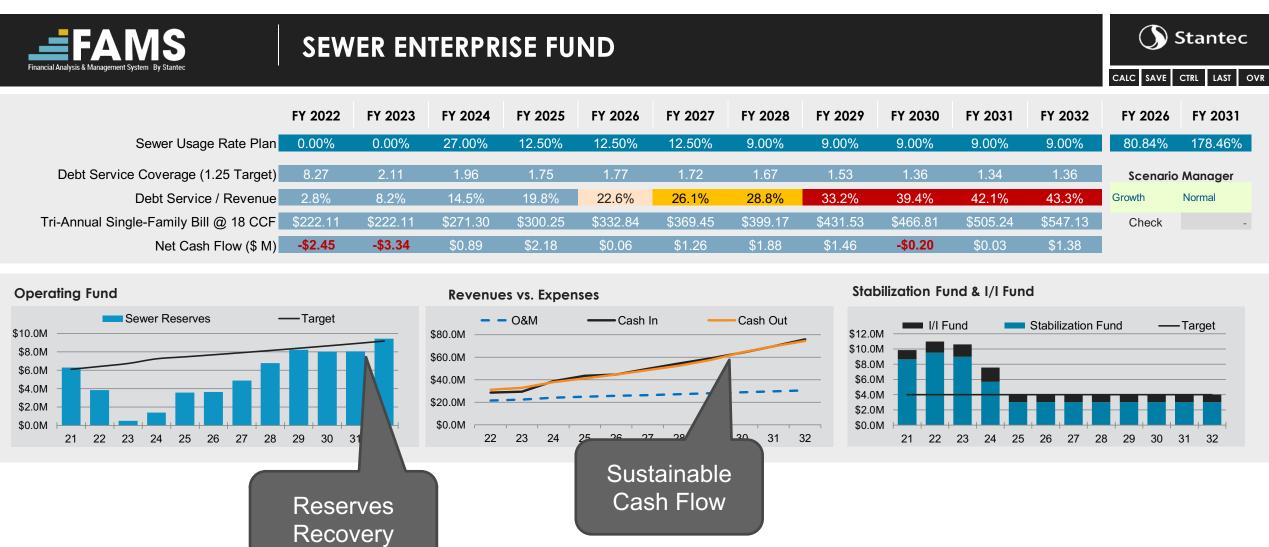
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Sewer Control Panel (No FY 23 Increase)

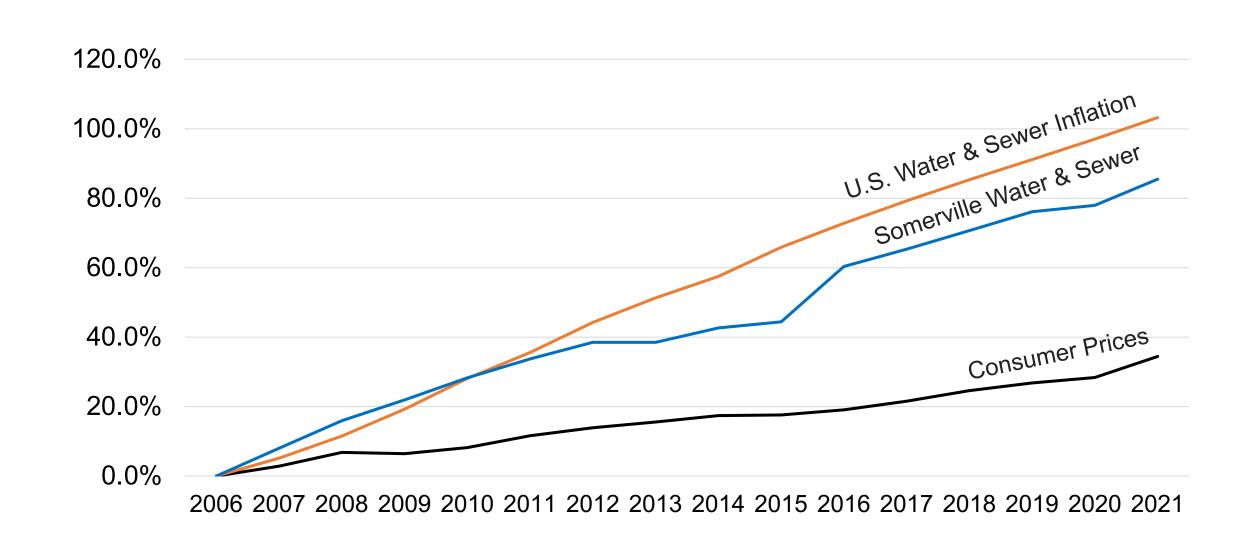




Sewer Control Panel (FY 24 Alternative)



Utilities Face Steep Inflation



Key Customer Impacts

Total Change in Annual Costs for Various Billing Units (including base & volumetric charges, amended)				
Total Units per Bill (in CCF)	FY 2022	FY 2023	\$ Change	
	Annual Total	Annual Total	(FY 2023 - FY 2022)	% Change
15 (average condo unit)	\$840	\$919	\$79	9%
18 (average single-family home)	\$1,017	\$1,118	\$101	10%
30 (average two-family home)	\$1,727	\$1,912	\$185	11%
42 (average three-family home)	\$2,437	\$2,707	\$270	11%
110 (average 8-unit apartment building)	\$6,583	\$7,347	\$764	12%

FY 23 Water and Sewer Residential Rates

FY 2023 Residential Volumetric Charges (\$/Billing Unit*)				
Tier	Tier Range (per CCF)	Water	Sewer	Combined
Discount Rate	0-8	\$4.98	\$9.92	\$14.90
Tier 1	9-13	\$5.56	\$11.03	\$16.59
Tier 2	14-67	\$8.00	\$14.07	\$22.07
Tier 3	68-133	\$8.38	\$14.76	\$23.14
Tier 4	Over 133	\$8.71	\$15.28	\$23.99

^{*}One unit = 100 cubic feet (CCF) or 748 gallons of water

FY 23 Water and Sewer Commercial Rates

FY 2023 Commercial Volumetric Charges (\$/Billing Unit*)				
Tier	Tier Range (per CCF)	Water	Sewer	Combined
Tier 1	0-13	\$5.56	\$11.03	\$16.59
Tier 2	14-67	\$8.00	\$14.07	\$22.07
Tier 3	68-133	\$8.38	\$14.76	\$23.14
Tier 4	Over 133	\$8.71	\$15.28	\$23.99

^{*}One unit = 100 cubic feet (CCF) or 748 gallons of water