Rate Review Committee
December 1, 2021 - 6:30 PM
Please use the link to join: https://us06web.zoom.us/j/84149580991
or join by phone:
us: +1 253 215 8782 or +1 346 248 7799
webinar id: 841 4958 0991

I. CALL MEETING TO ORDER

II. ROLL CALL

III. COMMITTEE BUSINESS

III.A Five Year Water CIP Presentation
RRC WA CIP Presentation 2021 kh.pptx

III.B Water Utility Rate Review
CRRC_W_Meeting_4(12-01-21)v3.pptx
Water CIP Detail.xlsx

IV. PUBLIC COMMENT

(3 minutes maximum, which may be extended at the Chair's discretion, with an opportunity to speak for no more than 5 minutes per speaker allowed)

V. ADJOURNMENT

Next Meeting date is 12/22/2021 at 6:30 p.m

ADA STATEMENT

Contact the City Recorder's Office for physical or language accommodations at least 2 business days before the meeting. Call (503) 537-1283 or email cityrecorder@newbergoregon.gov. For TTY services please dial 711

Five Year Water CIP Presentation

Rate Review Committee

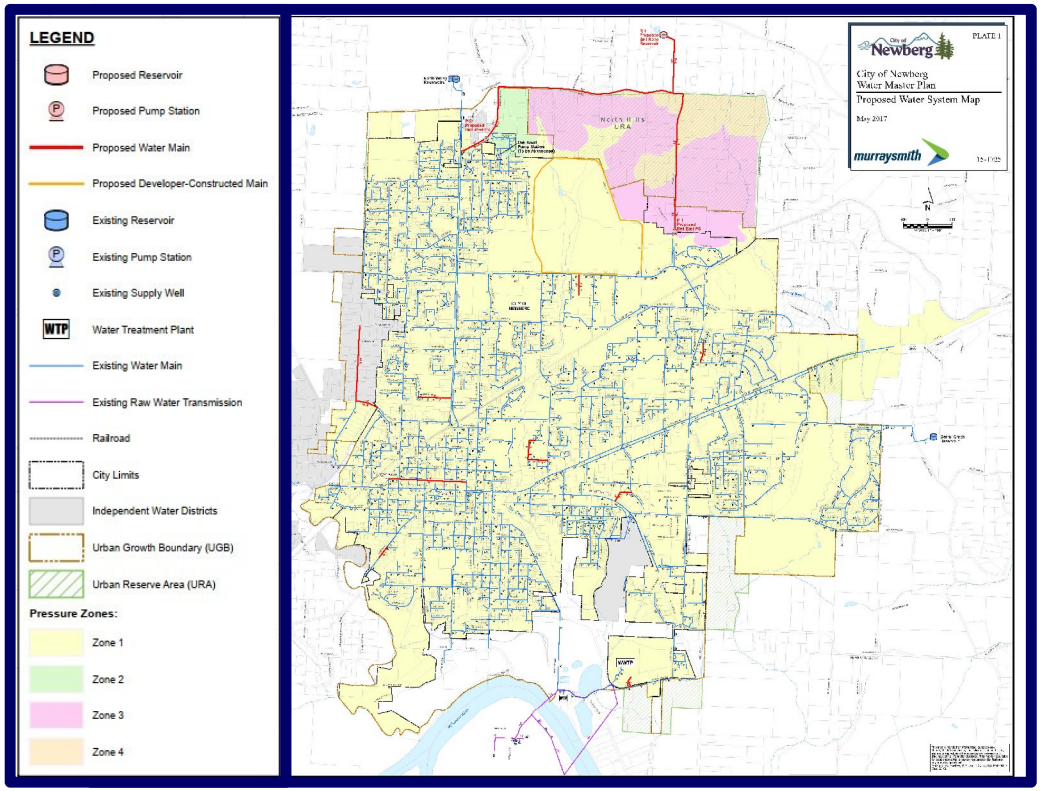
December 1, 2021

Presented by Paul Chiu PE, Senior Engineer

City of Newberg

Water System

- Many water projects are added to the list due to new mandatory requirements.
- City water system has many watermains that are less than 8” in diameter and many are cast iron pipes that eventually need to be replaced.



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Proposed 5-year water projects

(red means new CIP projects since last rate review)

- Redundant Water Supply
- Bell West Pump Station/N College – N Terrace Watermain
- Fire Flow Projects
- Routine Waterline Replacement
- North Non-potable/Otis Springs Pumping Improvements
- Fixed Base Radio Read
- Decommission Wells #1 and #2
- Water Filter Covers
- North Valley Reservoir Driveway
- WTP Seismic Improvements
- WTP Emergency Connection & Controls
- Reservoirs Seismic Improvements
- Waterline Seismic Improvements and Replacement
- HB 2001 Waterlines – 8 major projects:

*Main/4th/Lincoln/5th	*Blaine
*Meridian	*7th/Pacific/9th/Paradise
*River	*5th
*11th/Boston Square	*Vermillion

- AWIA (America's Water Infrastructure Act: Periodic Risk Assessments and Emergency Response Plans)

Proposed 5-year water projects – Multi-funded

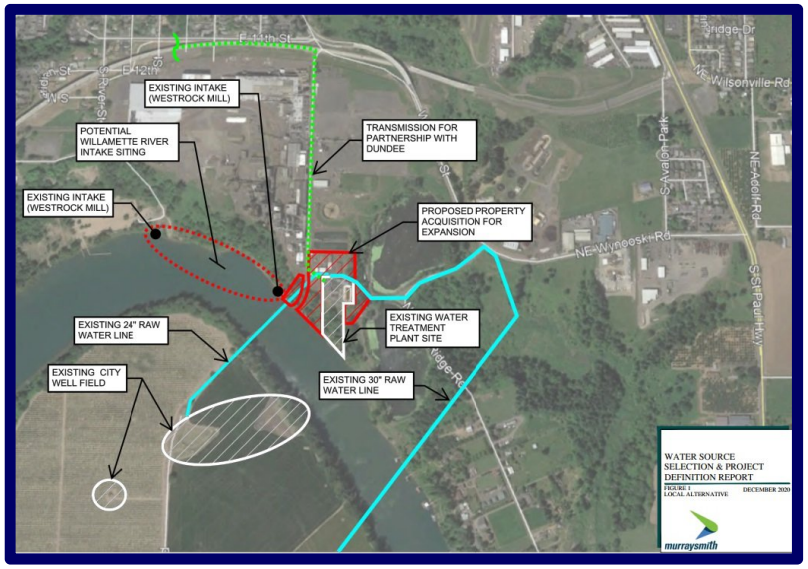
- N College Aldercrest-Foothills Waterline Relocation *(driven by ODOT)* *
- Valves on N College Street *
- W Illinois Fire Flow **
- Elliott Road Waterline Replacement *(part of Elliott Road Improvement Project)*
- NE Chehalem Drive Waterline Extension **
- Maintenance Yard

* *Valves on College Street is merged with the N College Aldercrest-Foothills Waterline Project for bid management*

** *The W Illinois Fire Flow Project is associated with the NE Chehalem Drive Waterline Extension Project*

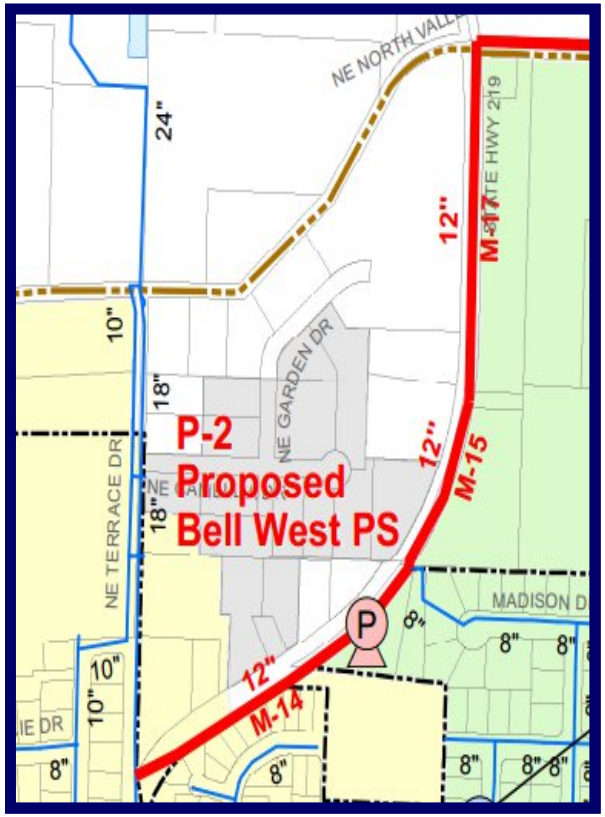
Redundant Supply

- Search for another supply option on the north side of the Willamette River – primarily for emergency purposes
- Council provided direction to use 2 MGD - 8 MGD for the amount
- Council provided direction to move forward with the Local Willamette alternative
- Council authorized the purchase property from WestRock Northwest, LLC for future WTP expansion.
- $3,711,000 over 5 years



Bell West Pump Station /N College – N Terrace Watermain

- Necessary to supply adequate fire flow to future Zone 2 development
- Will replace the existing Oak Knoll Pump Station to serve Veritas School, North Valley Friends Church and homes in the area
- The N College – N Terrace waterline project ($750,000) is part of this Bell West Pump Station expansion project ($1,220,000)
- Totals at $1,970,000



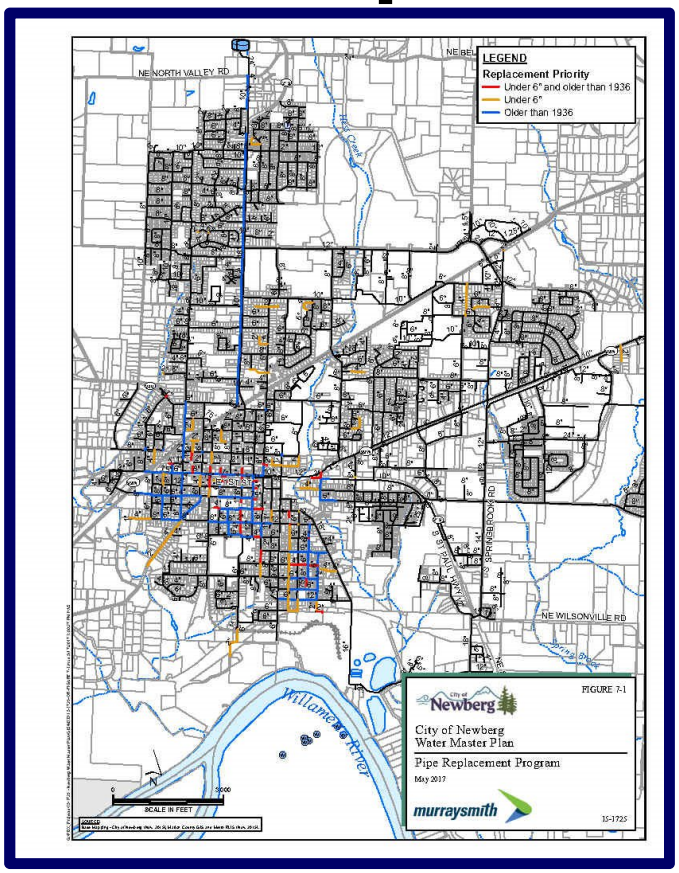
Fire Flow Projects

- Downtown - $552,000
- W Illinois Street ** - $400,000
- NE Dayton Avenue - $101,000
- E Mission Drive - $231,000
- N Elliott Road - $157,000
- E Mountainview Drive - $172,000

** *The W Illinois Fire Flow Project is associated with the NE Chehalem Drive Waterline Extension Project*

Routine Waterline Replacement

- $250,000



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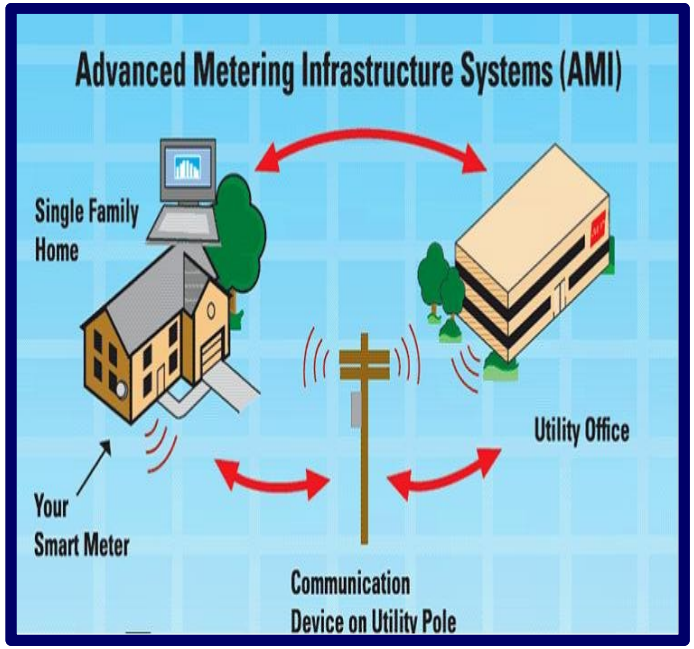
North Non-potable /Otis Springs Pumping Improvements

- Improvements at Otis Springs will advance the non-potable water plan
- $1,060,468

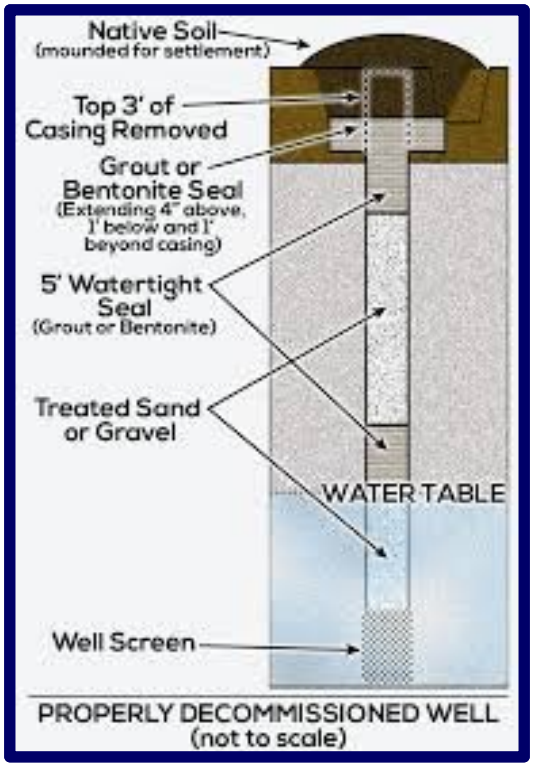
Fixed Base Radio Read

- Current water meter reading system requires an employee drive through the entire city each month to collect readings
- The fixed based system will allow all city meters to be continually transmitted to the Finance Dept., City Offices or the Maintenance Yard
- This will allow real time water consumption data for both the customer and City 24-7
- Any abnormal water loss may also be flagged by City
- $597,645



Decommission Wells #1 and #2

- Wells #1 & #2 have reached end of life and are not being used
- This project would properly decommission the wells per state standards
- $100,000 per well



Water Filter Covers

- There is a need to cover the treatment plant filters to meet State requirements
- This project will provide design and construction of the required coverings per State requirements
- $1,000,000

North Valley Reservoir Driveway

- Access to the North Valley Reservoirs is currently gravel and has drainage issues
- This project would correct the drainage issues and pave the driveway to allow safe access to City Water Reservoirs in all-weather conditions
- $231,855

WTP Seismic Improvements

- A recent risk and resilience assessment study commissioned by City in September 2020 reported in May 2021 that the City's WTP requires an extensive retrofit for seismic and landslide protection
- The mitigation cost totals $6.5M
- $2,353,326 in the next 5 years

WTP Emergency Connection and Controls

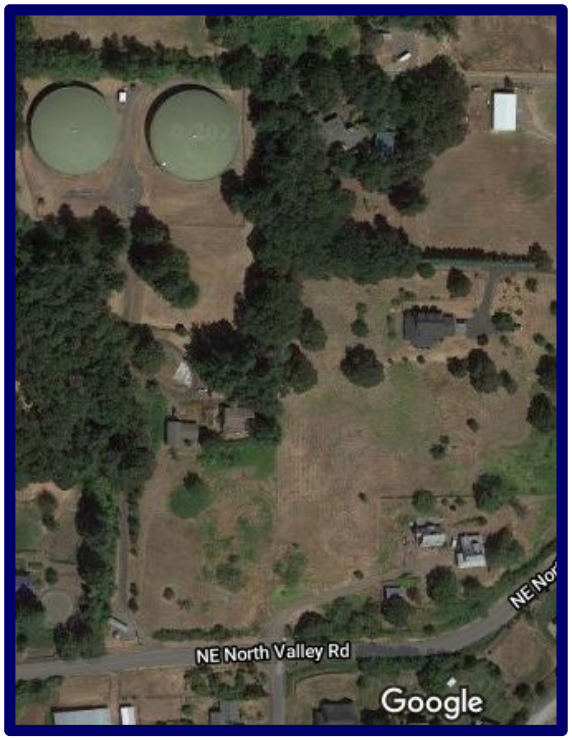
The Executive Summary for the Seismic Resilience Assessment memo, dated 7/20/20, stated the following:

"As identified in the vulnerability assessment, the WTP poses several risks if a Cascadia Subduction Zone (CSZ) earthquake occurs. By adding a point for emergency cross-connection and installing hydraulic control valves, the WTP could be isolated during an earthquake event, allowing raw water to continue into the distribution system."

- $562,754

Reservoirs Seismic Improvements

- A recent risk and resilience assessment reported in May 2021 that the City's reservoirs at North Valley requires retrofit for seismic and/or landslide protection
- $1,248,322 within the next 5 years



Waterline Seismic Improvements and Replacement

- The Seismic Resilience Assessment memo, dated 7/20/20, estimated 37,426 LF of backbone waterline in need of replacement for seismic consideration.
- $896,322 in the next 5 years

Mitigation Recommendation 3 – Cast Iron and Concrete Pipe Replacement

The survey of the City's backbone identified that it contains approximately 24% cast iron pipe and 13% concrete pipe (see Appendix C). The vulnerability assessment identified that a majority of the breaks in the system's backbone will occur in these pipe materials and will likely not be repairable following a CSZ event. Table 1 presents the breakdown of pipe sizes by pipe material.

Table 1. Backbone Pipe Replacement by Pipe Size and Material

Pipe Diameter	Linear Feet of Pipe		Total Linear Feet of Pipe
	Cast Iron	Concrete	
6"	1,500	0	1,500
8"	7,979	0	7,979
10"	3,520	0	3,520
12"	6,850	17	6,867
14"	60	0	60
16"	0	2,600	2,600
18"	4,920	9,030	13,950
24"	0	950	950
Total			37,426

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HB 2001 Waterlines

- 8 major and one minor waterline projects for the south study area have been identified by the City's consultant for this mandatory HB 2001 Middle Housing requirement upon the City of Newberg:

  1. Main/4th/Lincoln/5th 2. Blaine 3. Meridian
  4. 7th/Pacific/9th/Paradise 5. River 6. 5th
  7. 11th/Boston Square 8. Vermillion

- The technical memo was dated 10/30/20.
- Many areas are currently served by 4" and 6" diameter waterlines.
- Totals $6.17M
- $4.4M in the next 5 years

Project No.	Project Description
I-1	Install 1,733 LF of 8-inch DI Pipe in S Main Street, W 4th Street, S Lincoln Street, and W 5th Street
I-2	Install 2,558 LF of 12-inch DI Pipe in S Blaine Street
I-3	Install 2,962 LF of 8- and 12-inch DI Pipe in E 9th Street, Charles Street, and S College Street
I-4	Install 772 LF of 8- and 12-inch DI Pipe in S Meridian Street
I-5	Install 3,691 LF of 12-inch DI Pipe in E 7th Street, S Pacific Street, E 9th Street, and Paradise Drive
I-6	Install 2,736 LF of 12-inch DI Pipe in S River Street
I-7	Install 453 LF of 12-inch DI Pipe in E 5th Street
I-8	Install 159 LF of 8-inch DI Pipe from E 11th Street to the Boston Square Apartments
I-9	Install 15 LF of 8-inch DI Pipe in Vermillion Street

AWIA (America's Water Infrastructure Act: Periodic Risk Assessments and Emergency Response Plans)

- Periodic evaluation and assessment is necessary for this mandatory task and all resulting projects.
- $250,000 in the next 5 years

America's Water Infrastructure Act: Risk Assessments and Emergency Response Plans

On October 23, 2018, America's Water Infrastructure Act (AWIA) was signed into law. AWIA Section 2013 requires community (drinking) water systems serving more than 3,300 people to develop or update risk assessments and emergency response plans (ERPs). The law specifies the components that the risk assessments and ERPs must address, and establishes deadlines by which water systems must certify to EPA completion of the risk assessment and ERP. The Federal Register Notice for New Risk Assessments and Emergency Response Plans for Community Water Systems is available.

N College Aldercrest-Foothills Waterline Relocation

- Oregon Department of Transportation will be extending the sidewalks and bike lanes north on the west side of N College Street
- Our existing water line needs to be relocated ahead of the ODOT project
- $500,000

Valves on N College Street

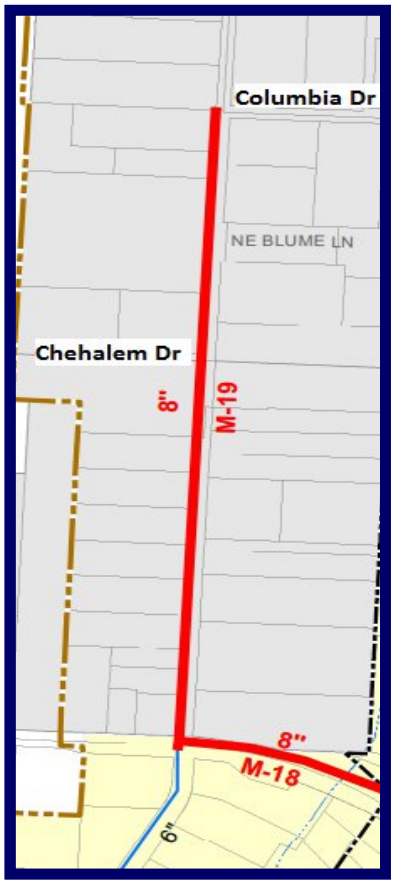
- One of the reasons for the massive amount of flooding in 2014 when the waterline broke is the lack of valves to shut the water off
- This project would add valves in strategic locations to minimize repeat issues
- $180,633

Elliott Road Waterline Replacement

- This project is to provide a new waterline for N Elliott Road as part of the Elliott Road Improvement Project.
- $600,000

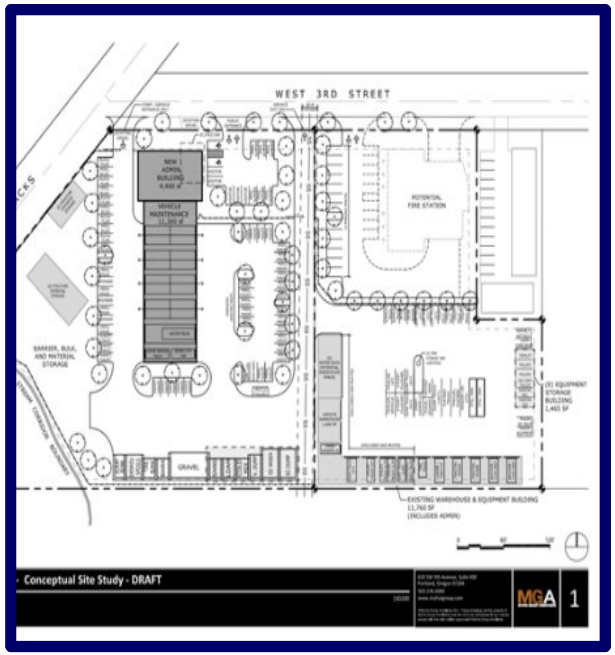
NE Chehalem Drive Waterline Extension

- The properties along NE Chehalem Drive are starting to develop
- There is no public waterline in the area
- An extension from the current terminus @Hwy 240 up to Columbia Drive will allow for a more orderly development (~2800 lineal feet)
- Constructed with the Chehalem Drive wastewater line extension and the West Illinois Fire Flow project
- $555,000



Maintenance Yard

- $110,765 in the next 5 years



1. Decant Facilities
   a. Must be rebuilt to eliminate FOG and Debris from entering the sewer.
   b. Must be rebuilt to dewater the material before disposal.
2. Vactor Cover
   a. We need to be able to protect the vactors from the elements. Vactor Truck Cost $700k - $900K
3. Wash Bay
   a. Must have an area to wash equipment on pavement that all water, soap, and debris can be caught and sent to the sewer system.
4. Decant Cover
   a. The cover will eliminate large amounts of stormwater from entering the sewer system
   b. The cover will also aid in dewatering the material to minimize the cost of disposal of the material.
5. Street Sweeping Cover
   a. The cover also will eliminate stormwater from entering the sewer system.
   b. The cover will also aid in dewatering the material to minimize the cost of disposal of the material.
6. Wash Bay Cover
   a. The cover also will eliminate stormwater from entering the sewer system.
7. Material Bay Covers
   a. The covers will help keep materials dry for use during the winter months.
   b. The covers will eliminate any erosion control issues and prevent fines and debris from clogging the stormwater facilities
8. Enclose all Bays
   a. The encloser will increase security for the cities equipment
   b. The inside storage will provide a better temperature-controlled environment for materials on hand.
9. New Fleet Shop
   a. Provide a more functional and safe working environment that will allow them to maintain all the different sizes of equipment owned by the city.
   b. The new shop would provide a space for the work to be completed safer and more efficiently.
10. Enclose Building on Southeast section of the Property
    a. As the city grows, PW will need more and more storage indoors for equipment and sensitive materials
11. Stormwater Facilities
    a. It will need to be cleaned up and potentially rebuilt or reconfigured.
12. Stormwater Water Quality Manholes
    a. One new water quality manhole will need to be installed.
    b. One old water quality manhole will need upgrades or to be replaced.
13. Office Space
    a. The PW staff team also increases as the city grows, and we are already bursting at the seams. Therefore, PW needs a place that allows the staff to work more efficiently and increases morale.
    b. This new building would allow PWM and PWE to work closer, be more efficient, and provide much higher level of services to the community.

City of Newberg

2021 Utility Rate Review

Water Rate Meeting #1

December 1, 2021

GALARDI ROTHSTEIN GROUP

Water Rate Review Process

Identify Revenue Sources Mtg#1

- Revenue from rates
- Other fees and charges
- Reserves

Identify Revenue Requirements Mtg #1

- Operation & maintenance
- Debt service
- Cash-funded capital
- Reserves/contingencies

Rate Recommendations

- Overall revenue increases
- Rate components
- Customer class rates
- Nonpotable rates

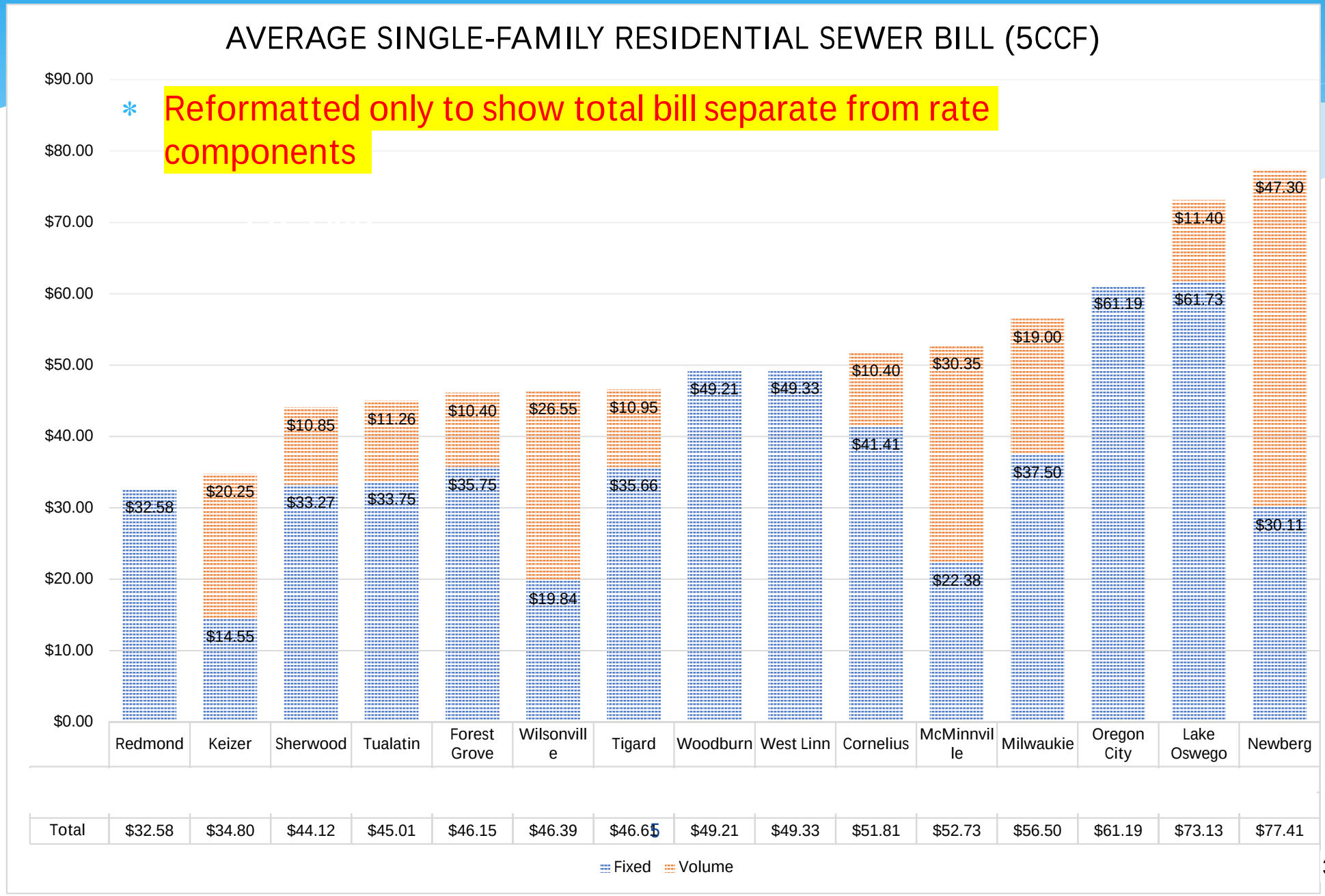
Modified Sewer Slides

Current and Updated Rates (Corrected)

* Reflects 3.5% annual increase overall and updated cost of service analysis.

Rate Component/Customer Class	January 2022	Jan 1 '23	Jan 1 '24
Service Charge ($/Month)			
Total Service Charge ($/Account)[1]	$30.11	$31.87	$33.01
Infiltration & Inflow ($/additional Multifamily Dwelling Unit)	$24.88	$25.94	$26.88
Volume Charge ($/ccf)			
Single Family	$9.46	$9.68	$10.02
Multifamily	$9.46	$9.68	$10.02
Commercial - 1	$9.46	$9.68	$10.02
Commercial - 2	$12.00	$12.31	$12.73
Commercial - 3	$19.69	$20.07	$20.73
Industrial	$12.00	$12.31	$12.73
Outside City	$9.45	$9.68	$10.02
[1]Includes billing charge and Infiltration & Inflow charge.			
Corrected			

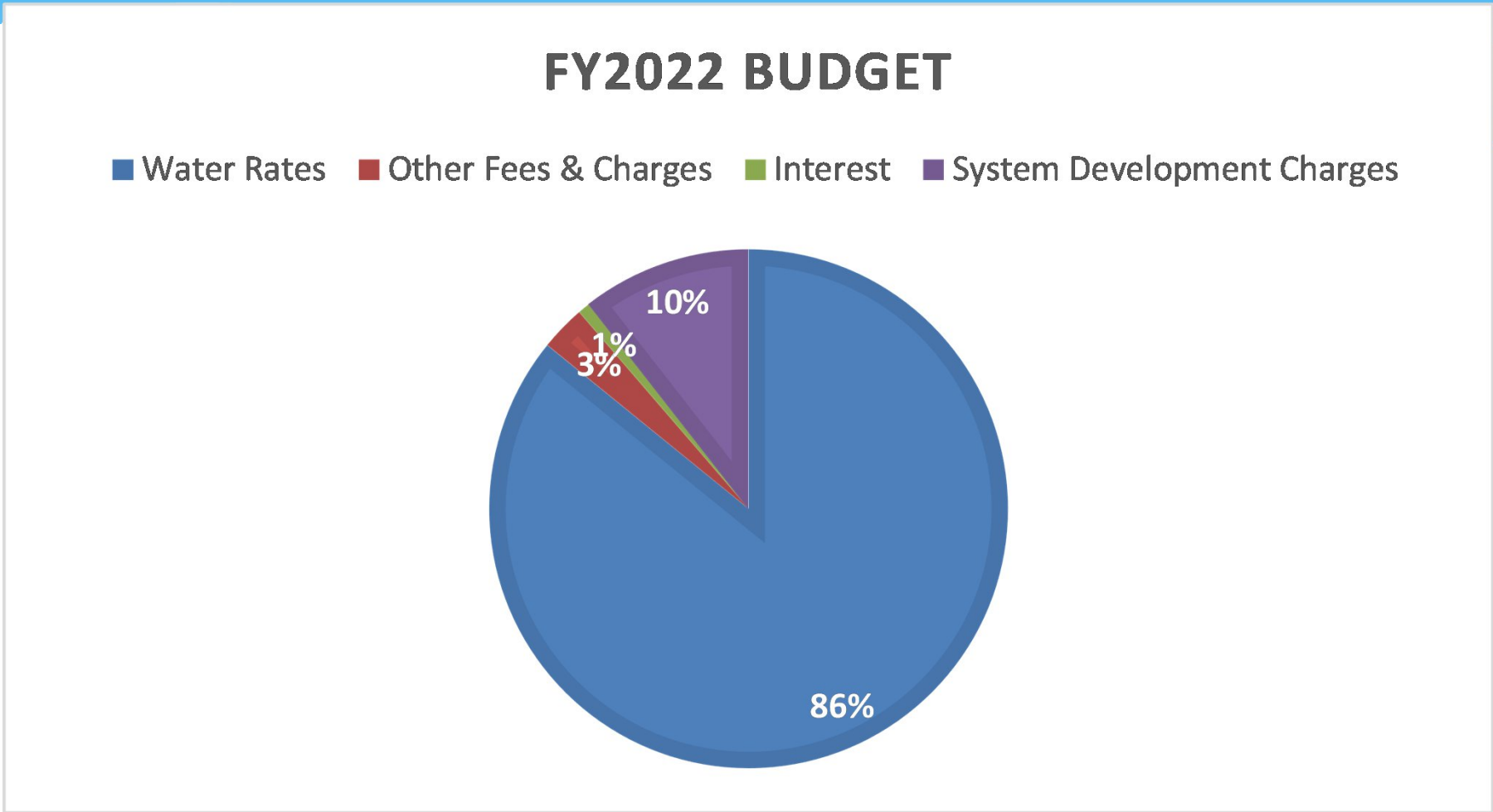
Bill Comparison



* Reformatted only to show total bill separate from rate components

Revenue Analysis

Water Utility Enterprise Funding

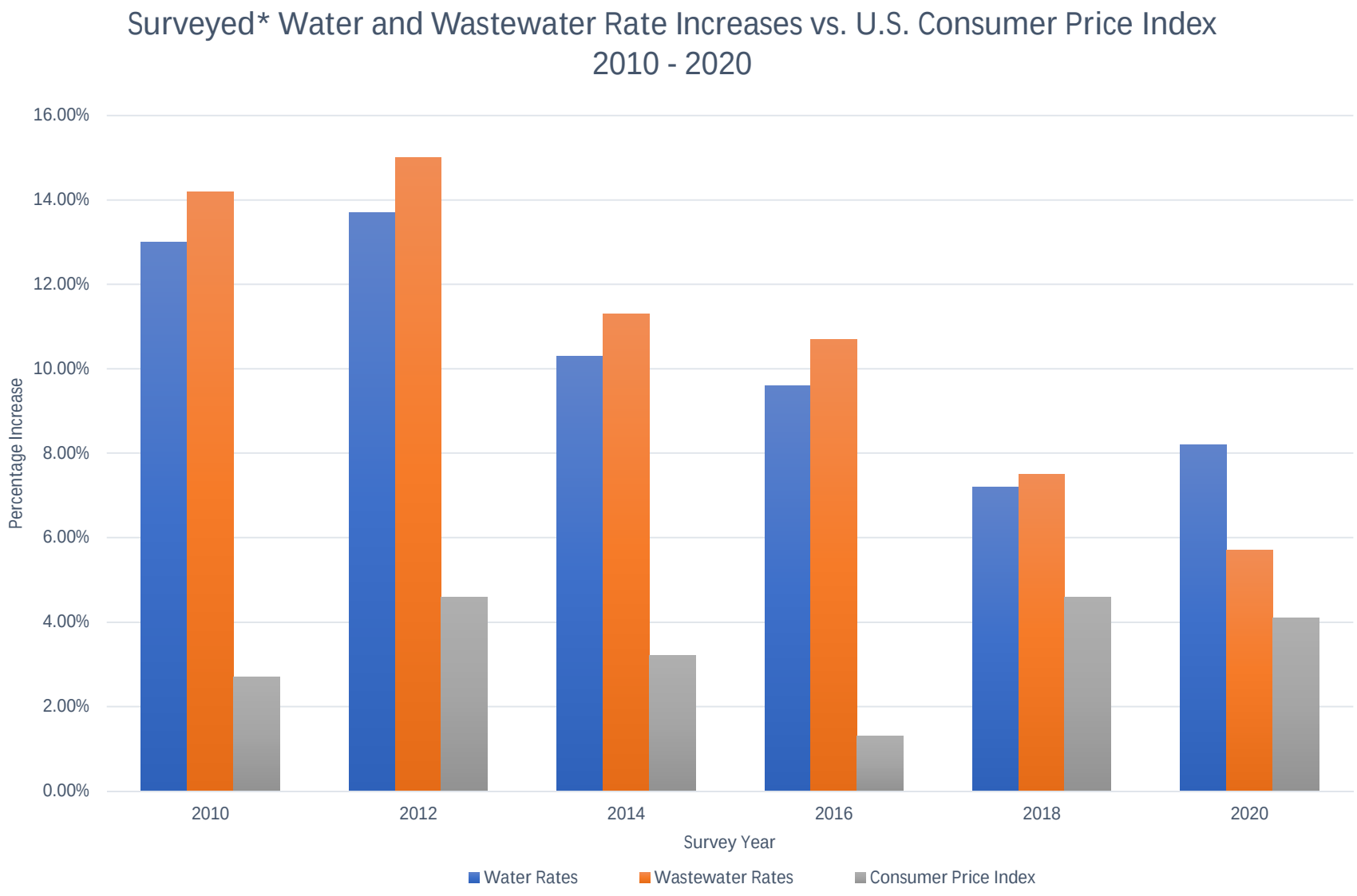


Water Rate Increase History

* July 2011 & 2012 – 12.2%	*Consumption and growth down; not meeting debt coverage; introduced 1% reserve funding.*
* Jan 1, 2013 – 0.00%	*Cut capital; shifted O&M costs to sewer and storm to meet coverage requirements.*
* Jan 1, 2014 – 3.00%	
* Jan 1, 2015 – 7.00%	*Significant increases in capital plan (new reservoir and water treatment plant reserve.*
* Jan 1, 2016 – 7.00%	
* Jan 1, 2017 – 3.50%	*Interim increases pending completion of Water System Master Plan.*
* Jan 1, 2018 – 3.50%	
* Jan 1, 2019 – 4.00%	*Water System Master Plan completed - Rate increases reflected needed funding for updated CIP and maintenance of reserve levels.*
* Jan 1, 2020 – 4.00%	
* Jan 1, 2021 – 4.00%	
* Jan 1, 2022 – 4.00%	

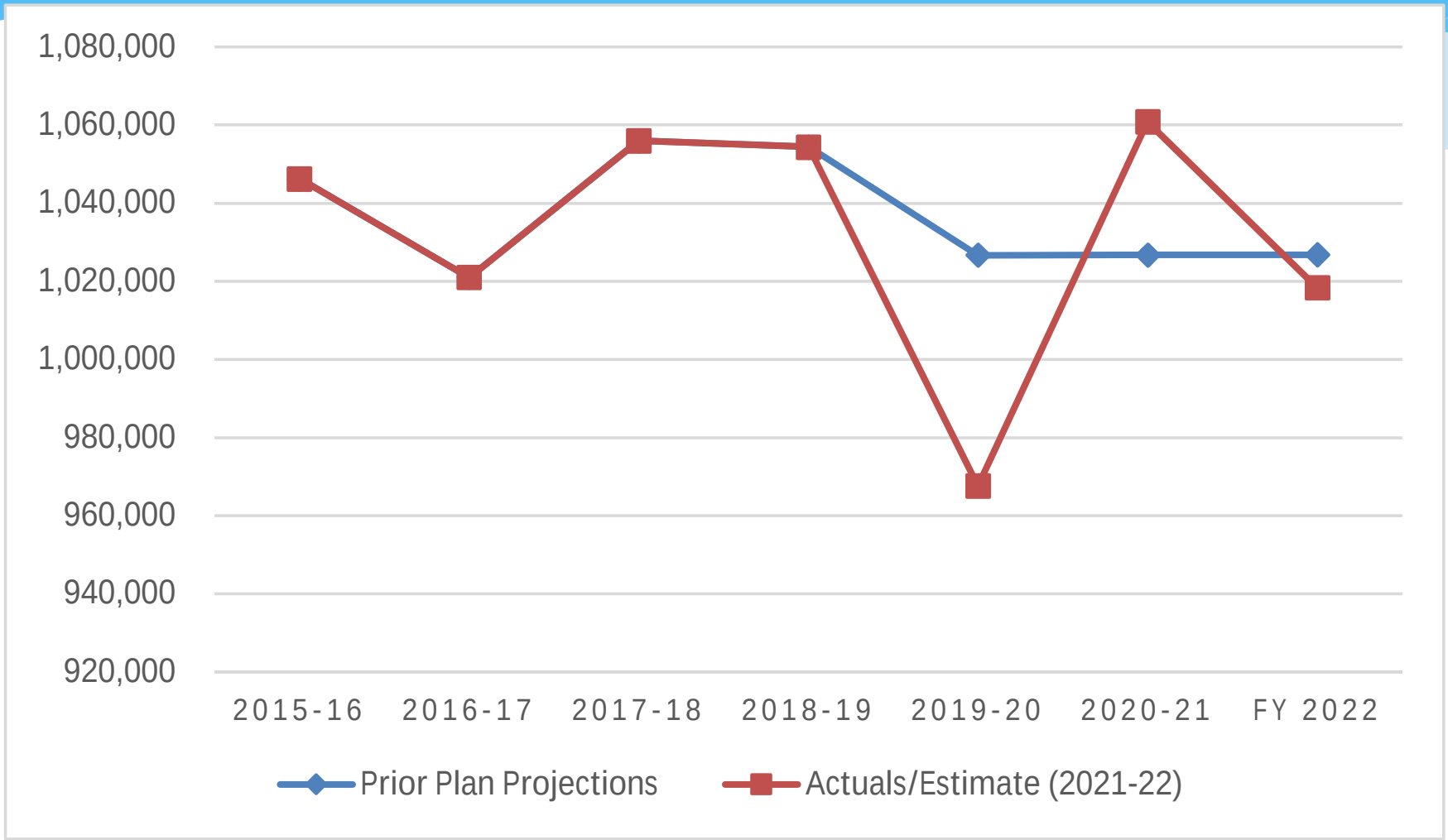
2020 Rate Review projected increases of 4.0% for FY2023 and FY2024

National Utility Bill and CPI Trends

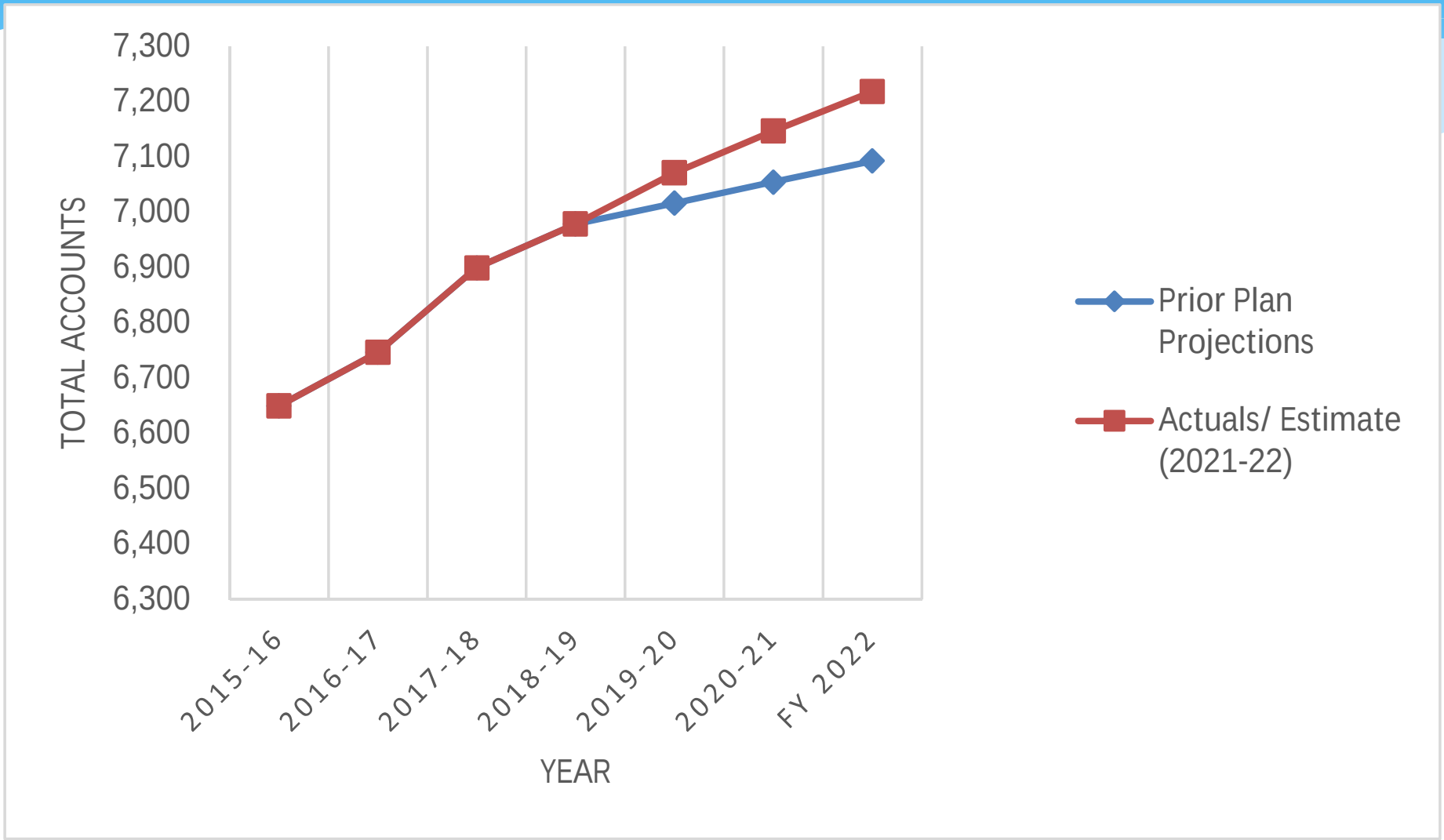


** 2020 Water and Wastewater Rate Survey published by American Water Works Association (AWWA) and Raftelis.*

Projected vs. Actual Billed Water Volumes



Projected vs. Actual Water Accounts



Current Water Rates

Service Charge ($/month)	$3.25

Meter Charge ($/month)	
3/4" meter	$17.96
1"	$30.53
1 1/2"	$59.27
2"	$95.19
3"	$179.60
4"	$299.93
6"	$598.07
8"	$957.27
10"	$1,496.07
Non-potable 4"	$62.21
Non-potable 8"	$195.75

Volume Charge ($/ccf)	
Single Family Residential	$4.29
Multi-family Residential	$3.50
Commercial	$4.34
Industrial	$4.89
Irrigation	$8.03
Outside City	$6.43
Public Agency	$4.78
Non-Potable	$2.80

Fixed Charge % of Total Revenue

Fiscal Year	% Fixed
2016	23%
2017	25%
2018	26%
2019	28%
2020	30%
2021/2022 (est.)	32%

Prior to 2013 was less than 10%; current industry standard target is 40% fixed.

Rate Revenue Comparison

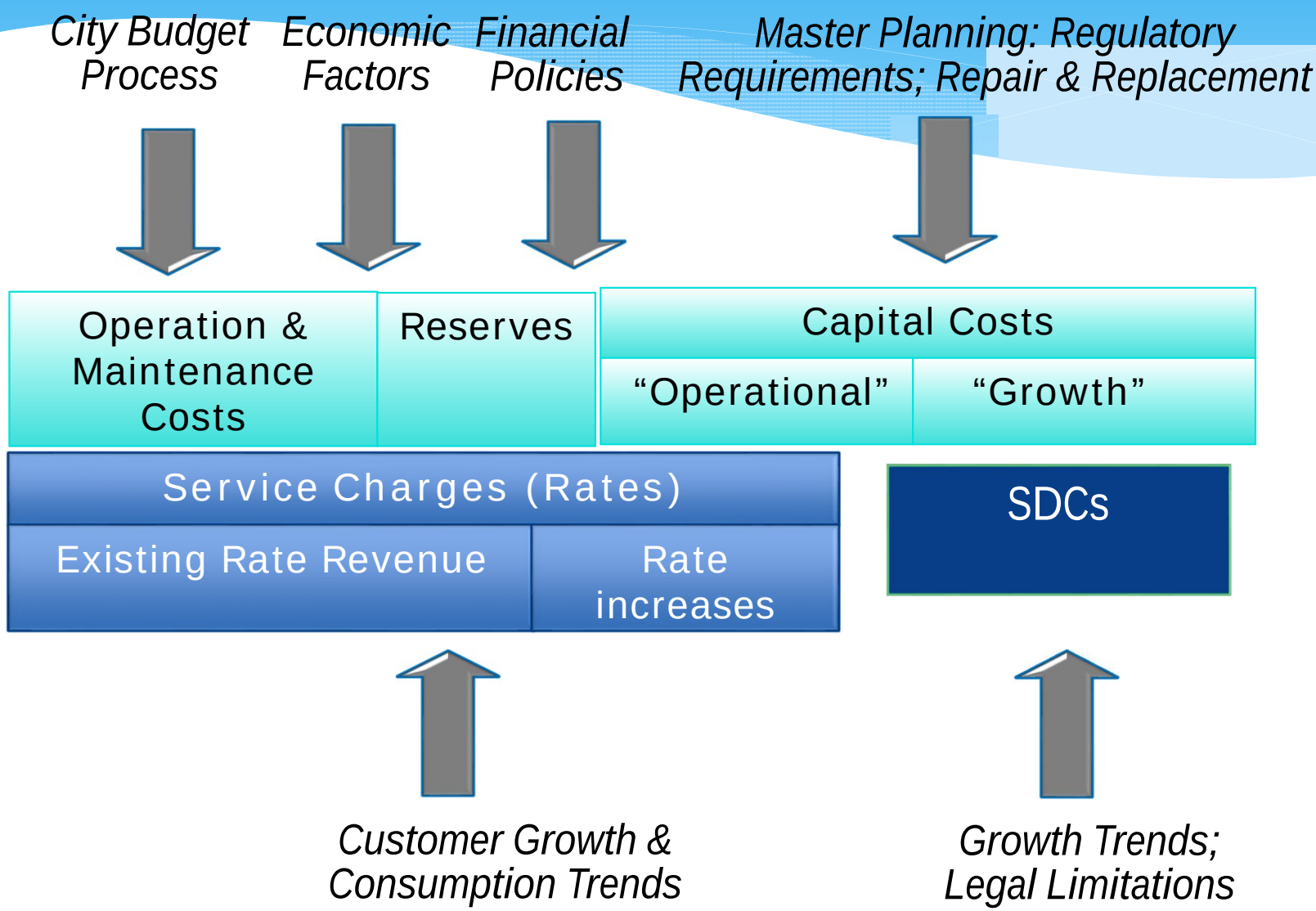
	Fiscal Year				
	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Actual/Updated Projections*	$5,635,537	$6,475,845	$6,521,066	$6,795,508	$7,108,191
Prior Projections	5,880,582	*$6,277,789*	*$6,540,099*	*$6,813,278*	*$7,098,172*
Difference ($)	-$245,045	$198,056	-$19,033	-$17,771	$10,019
Difference (%)	-4.2%	3.2%	-0.3%	-0.3%	0.1%
*Based on adopted rates through FY2019/20; then 4% increase					
*Prior projections included 4% increase					

Rate Revenue by Customer Class

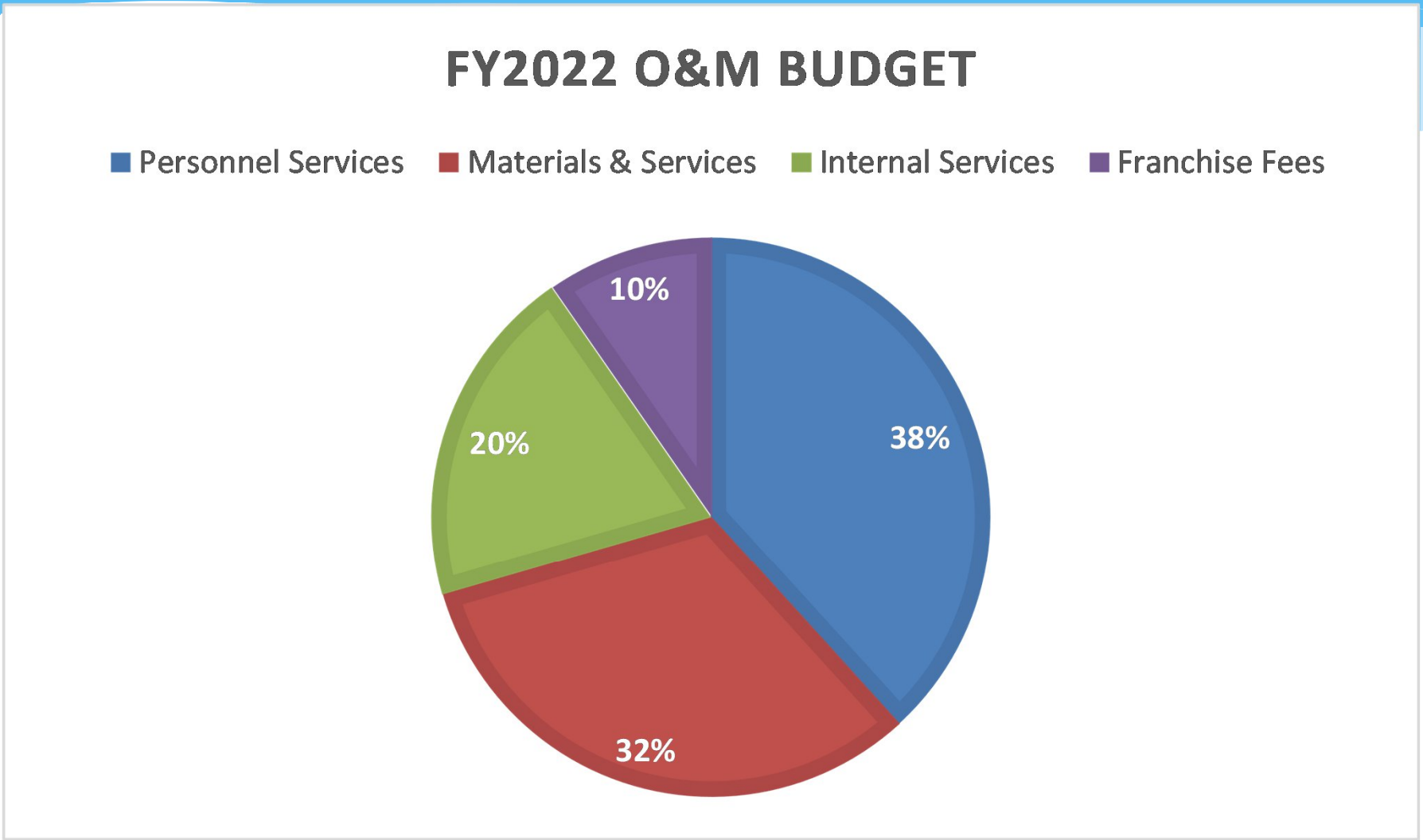
	2021-22	
Customer Class	**Revenue $M**	**% Total**
S-F Residential	$3.57	54.8%
Multifamily	$0.73	11.2%
Commercial	$0.90	13.8%
Industrial	$0.11	1.7%
Irrigation	$0.73	11.2%
Outside City	$0.22	3.3%
Public Agency	$0.14	2.1%
Nonpotable	$0.12	1.9%
Total	**$6.52**	**100.0%**

Revenue Requirements

Key Forecast Drivers



Operation & Maintenance Cost Components



General Forecast Assumptions

- Escalation Factors
  - Capital – 3.5%
  - Salaries – 3.5%
  - Benefits (insurance, PERS) – 8% **Pending updated information from State (later in December)*
  - Materials & Services – 3.5%
  - Internal Services – 4%
- Interest earnings = 1%
- Franchise fee = 7% annual sales revenue
- Contingency = 60 days of O&M

Projected Operation & Maintenance Cost Comparison

- Current plan reductions due to:
  - Reduced repair & maintenance during pandemic
  - Staff vacancies

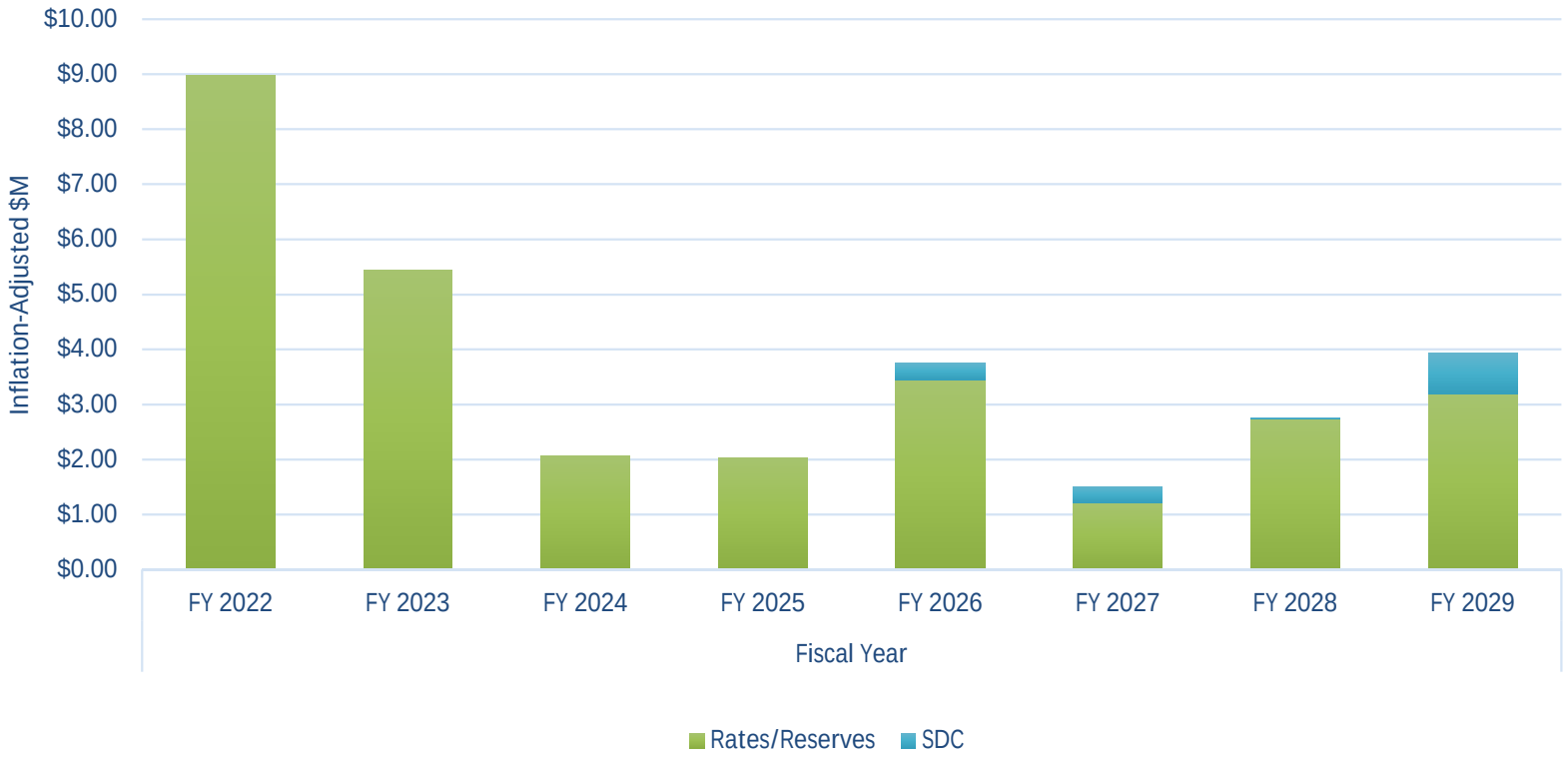
Division	Actual FY 2020	Actual FY 2021	Budget FY 2022	Projected FY 2023	Projected FY 2024	Projected FY 2025	Projected FY 2026	Projected FY 2027
Current Plan								
Engineering	$ 1,806,902	$ 1,739,639	$ 1,864,806	$1,930,386	$2,015,826	$2,105,294	$2,199,028	$2,297,684
Operations	1,105,112	1,126,412	1,359,296	1,379,544	1,436,788	1,496,751	1,559,588	1,625,460
Distribution (Maint)	1,132,898	927,466	1,370,490	1,434,604	1,540,971	1,625,174	1,713,735	1,806,948
Total	$4,044,912	$3,793,517	$4,594,592	$4,744,534	$4,993,585	$5,227,219	$5,472,351	$5,730,092
Prior Plan								
Engineering	$1,810,492	$1,893,816	$1,970,207	$2,049,998	$2,133,386	$2,222,474	$2,315,680	$2,413,218
Operations	$1,345,282	$1,391,260	$1,439,272	$1,489,435	$1,541,874	$1,596,724	$1,654,128	$1,714,241
Distribution (Maint)	$1,171,037	$1,293,778	$1,340,296	$1,389,521	$1,441,644	$1,496,871	$1,555,424	$1,617,542
Prior Plan	*$4,326,811*	*$4,578,854*	*$4,749,775*	*$4,928,953*	*$5,116,904*	*$5,316,069*	*$5,525,233*	*$5,745,001*
Difference	*-$281,899*	*-$785,337*	*-$155,183*	*-$184,419*	*-$123,319*	*-$88,850*	*-$52,882*	*-$14,909*

Capital Improvement Funding

- See capital improvement table for detailed project information
- SDC funding is primarily for debt service through 2025

Sources of Funds	
Beginning Balance	$ 119,318
Grants	450,203.5
SDCs	1,339,218
Operating Transfers	28,690,122
Total	**$ 30,598,861**
Uses of Funds	
Capital Improvments	$ 30,474,122
Ending Balance	124,739
Total	**$ 30,598,861**

Projected Annual Capital Improvement Plan Spending

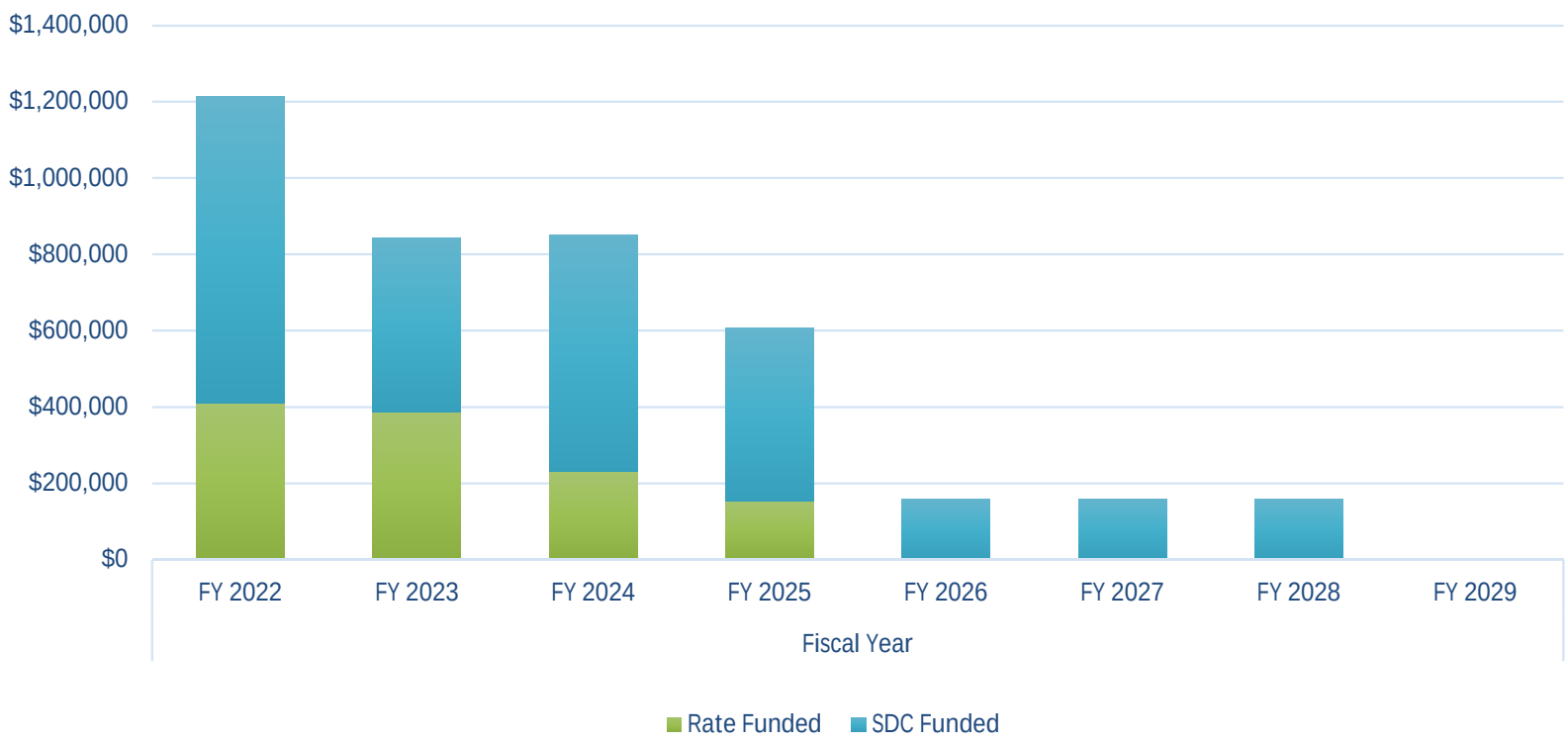


Projected Reserves (End of Year)

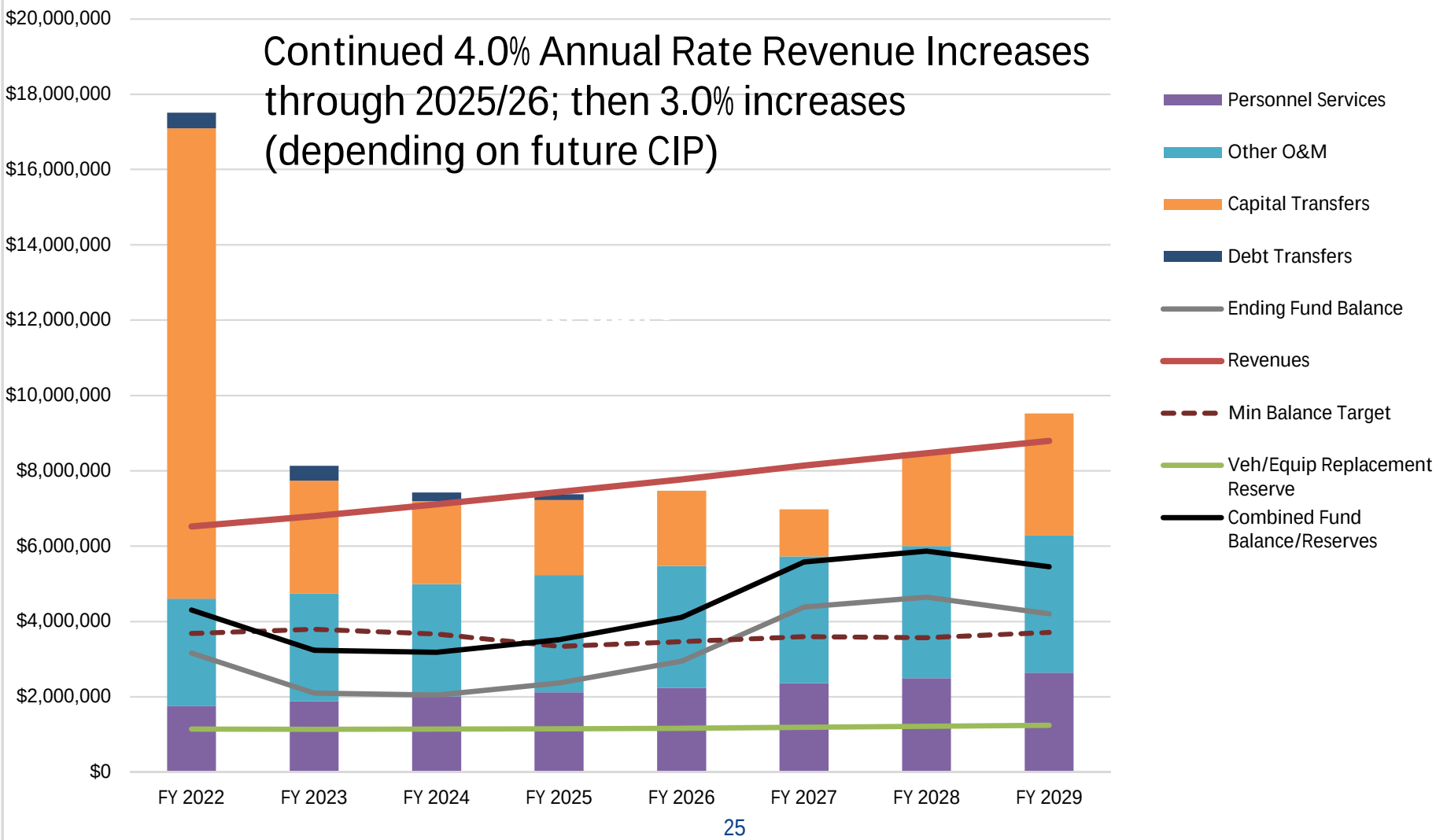
	FY	FY
Component	**2021-22**	**2028-29**
Operating Contingency	$757,094	$1,031,736
Debt Service	$843,485	$0
Capital	$3,634,071	$124,739
Equipment	$1,144,150	$1,245,378
Undesignated	$1,560,865	$3,173,846
Subtotal Operating/Capital	$7,939,665	$5,575,698
SDC Fund Balance	$169,852	$0
Combined	**$8,109,517**	**$5,575,698**

Existing Debt Service

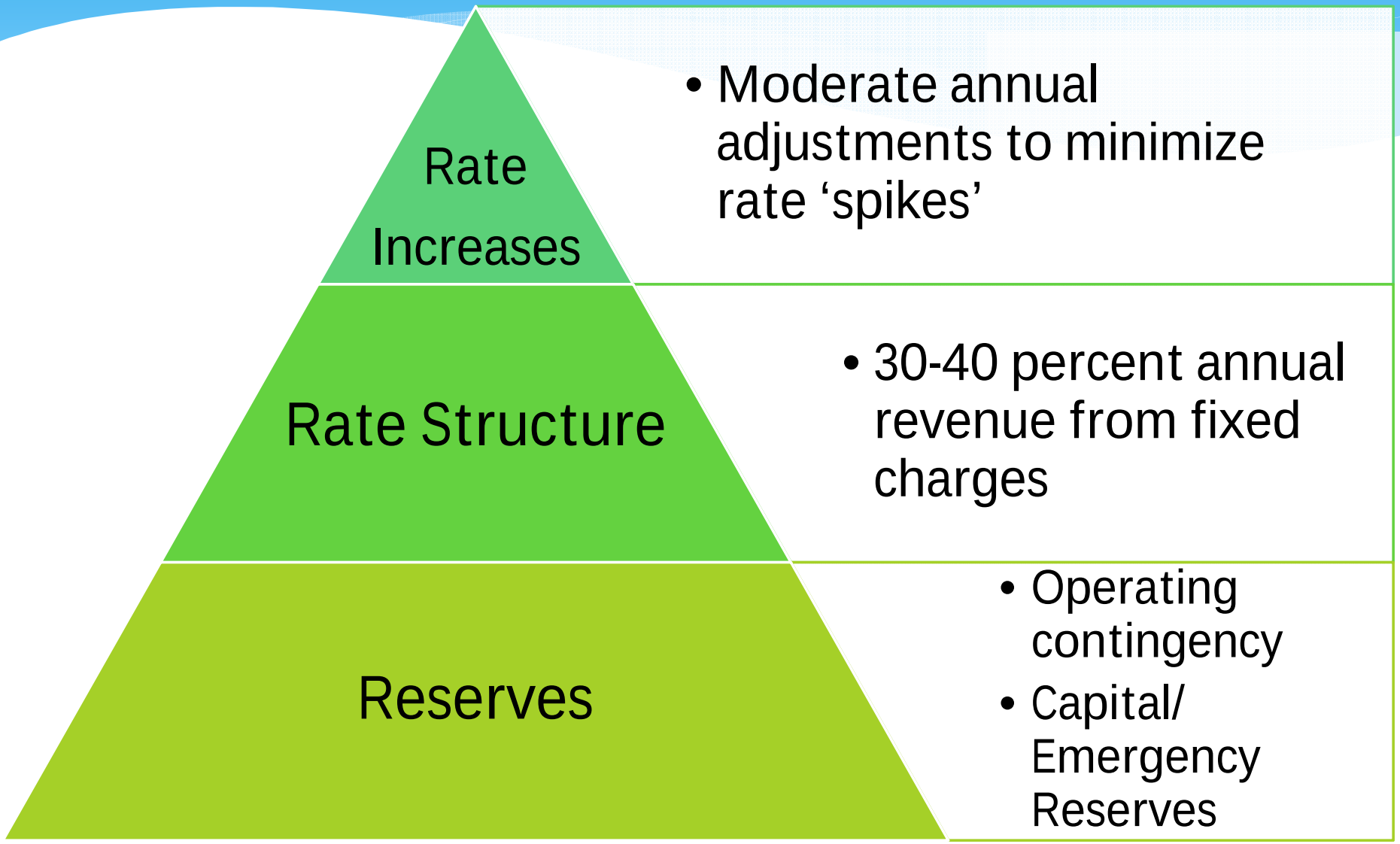
State Loans: Reservoir, Well #8, Parallel River Crossing (last payment 2025)
Effluent Reuse Loan (27% water) = $3.7 million balance (last payment 2028)



Projected Revenue Requirements and Ending Water Fund Balance



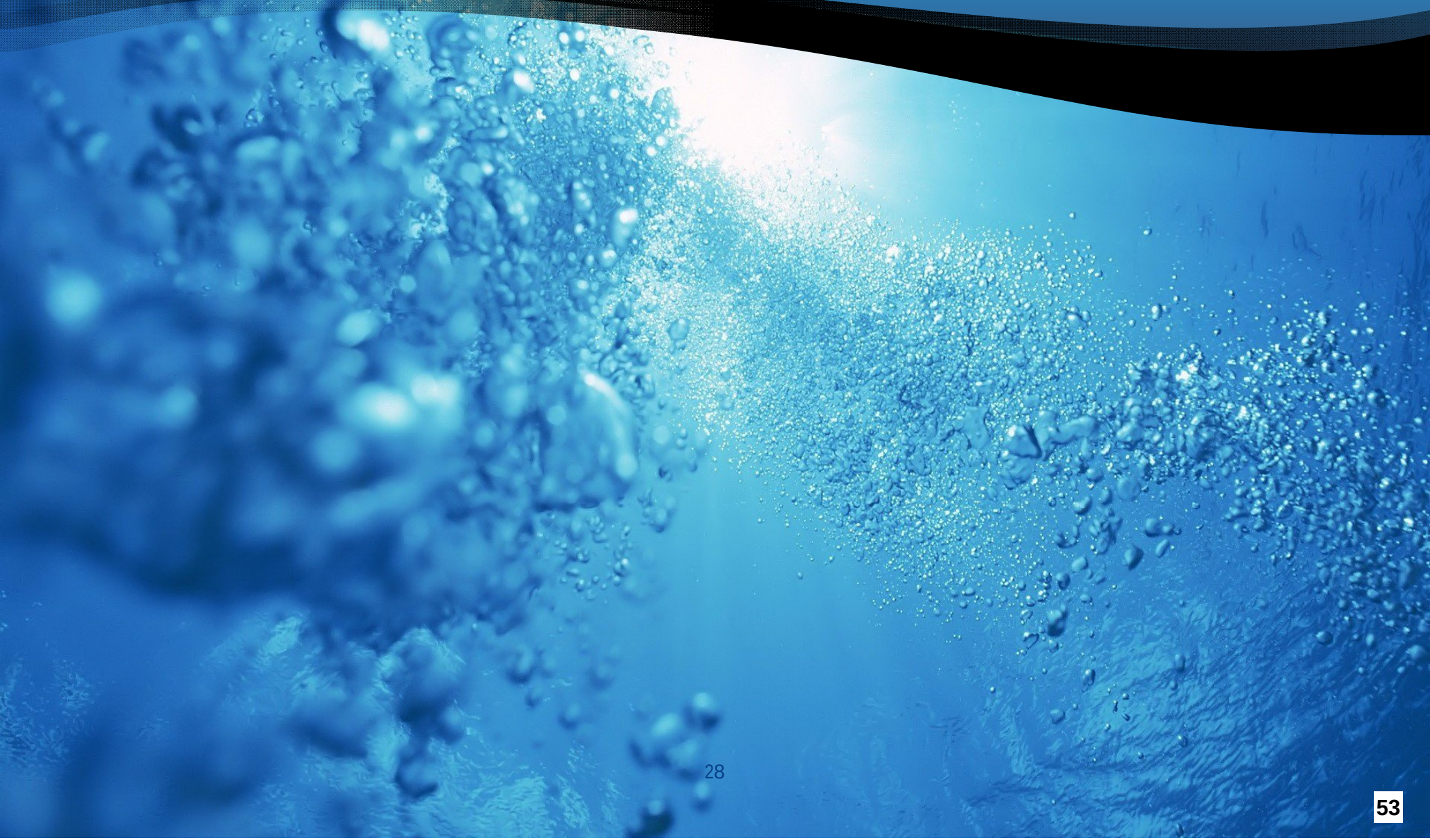
Foundation for Financial Resiliency



Next Steps

- Water System Analysis
  - Rates by customer class and rate component
  - Nonpotable water rates
  - Bill impacts and comparison
- Review findings with CRRC December 22, 2021

Questions



Wastewater Capital Improvement Plan (Adjusted for Inflation)*

Project	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	TOTAL	SDC
Redundant Water Supply	$1,859,871	$1,298,056	$639,549	$0	$0	$0	$0	$0	$3,797,477	50.0%
Bell East Pump Station - Zone 3 constant pressure	-	-	-	-	-	-	-	1,168,472	1,168,472	100.0%
Bell West Pump Station - Zone 2 constant pressure	1,220,000	-	-	-	-	-	-	-	1,220,000	100.0%
Upsize existing mains and construct new distribution loops to improve fire flow capacity	232,000	662,316	-	-	-	-	-	-	894,316	50.0%
NE Zimri Drive Zone 3 distribution backbone within UGB	-	-	-	-	-	-	-	541,401	541,401	100.0%
N College Street - N Terrace Street - proposed Bell West P.S. (P-2) - Veritas School	750,000	-	-	-	-	-	-	-	750,000	100.0%
Routine Main Replacement Program	250,000	-	-	-	114,752	118,769	245,851	254,456	983,828	0.0%
Water System Master Plan update	-	-	-	-	-	-	-	-	-	50.0%
North non-potable water line and Otis Springs pumping improvements	-	103,500	506,044	541,132	-	-	-	-	1,150,676	0.0%
Fixed Base Radio Read	365,790	239,970	-	-	-	-	-	-	605,760	0.0%
Decommission Well #1	-	103,500	-	-	-	-	-	-	103,500	0.0%
Decommission Well #2	-	103,500	-	-	-	-	-	-	103,500	0.0%
WTP Filter Covers	1,000,000	-	-	-	-	-	-	-	1,000,000	0.0%
Nvalley Reservoir Driveway	-	239,970	-	-	-	-	-	-	239,970	0.0%
WTP Property Purchase	-	-	-	-	-	-	-	-	-	0.0%
WTP Seismic Improvements	-	1,199,849	-	-	-	-	1,467,795	1,611,685	4,279,329	0.0%
Emergency Connection & Controls at WTP	-	582,451	-	-	-	-	-	-	582,451	0.0%
Seismic Improvements at Water Reservoirs	-	-	-	681,792	726,824	-	-	-	1,408,615	0.0%
Seismic Improvements - Waterline Replace	168,826	179,977	191,865	204,537	218,047	-	-	-	963,253	0.0%
HB 2001 Waterline - Main, 4th, Lincoln & 5th	-	239,970	365,822	-	-	-	-	-	605,792	50.0%
HB 2001 Waterline - Blaine St	-	-	-	-	1,180,362	-	-	-	1,180,362	50.0%
HB 2001 Waterline - Meridian	-	-	-	-	639,605	-	-	-	639,605	50.0%
HB 2001 Waterline - 7th, Pacific, 9th & Paradise	-	-	319,775	545,433	581,459	-	-	-	1,446,667	50.0%
HB 2001 Waterline - River	281,377	441,544	-	-	-	-	-	-	722,922	50.0%
HB 2001 Waterline - 5th	166,575	-	-	-	-	-	-	-	166,575	50.0%
HB 2001 Waterline - 11th & Boston Square	55,150	-	-	-	-	1,336,752	-	-	1,391,902	50.0%
HB 2001 Waterline - Vermillion	12,381	-	-	-	-	-	-	-	12,381	50.0%
AWIA	50,000	-	-	-	229,505	-	-	-	279,505	50.0%
MULTI FUNDED PROJECTS (Water Share Only)										
N College Aldercrest-Foothills (driven by ODOT)	500,000	-	-	-	-	-	-	-	500,000	0.0%
Valves on College St	180,633	-	-	-	-	-	-	-	180,633	0.0%
Fireflow - Vittoria Square	-	-	-	-	-	-	-	-	-	0.0%
Fireflow - W Illinois	125,000	-	-	-	-	-	-	-	125,000	0.0%
N Howard Waterline (new)	73,000	-	-	-	-	-	-	-	73,000	50.0%
Elliott Road Water Replacement (new)	600,000	-	-	-	-	-	-	-	600,000	0.0%
NE Chehalem Extension	555,000	-	-	-	-	-	-	-	555,000	100.0%
E Crestview Waterline -Potable	103,000	-	-	-	-	-	-	-	103,000	100.0%
E Crestview Waterline -Nonpotable	393,000	-	-	-	-	-	-	-	393,000	100.0%
Maintenance Yard	33,765	51,750	53,561	55,436	57,376	59,384	61,463	63,614	436,349	20.0%
S Dayton Waterline - Upsize to 8 (new)	-	-	-	-	-	-	400,737	-	400,737	0.0%
E Laurel Ngbrhd Waterlines - Upsize to 8" (new)	-	-	-	-	-	-	576,521	-	576,521	0.0%
E Hancock/N Carlton Waterlines - Upsize to 8" (new)	-	-	-	-	-	-	-	292,624	292,624	0.0%
Total CIP ($inflated)	**$8,975,369**	**$5,446,353**	**$2,076,617**	**$2,028,330**	**$3,747,930**	**$1,514,905**	**$2,752,367**	**$3,932,252**	**$30,474,122**	

WWTP = Wastewater Treatment Plant

By Funding Source									
Rates	$8,975,369	$5,446,353	$2,076,617	$2,028,330	$3,452,868	$1,221,075	$2,740,074	$3,194,218	$29,134,904
SDC	-	-	-	-	295,062	293,829	12,293	738,035	$1,339,218
Total Inflation Adjusted	**$8,975,369**	**$5,446,353**	**$2,076,617**	**$2,028,330**	**$3,747,930**	**$1,514,905**	**$2,752,367**	**$3,932,252**	**$30,474,122**

**Reflects 3.5% capital inflation*