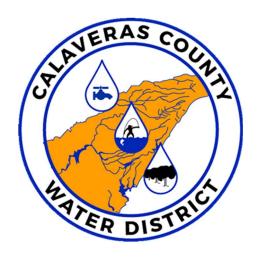
# Public Hearing September 13, 2023

# Calaveras County Water District 2023 Cost-of-Service Study





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### **Executive Summary**

The Calaveras County Water District (District) is a local public agency that provides water and wastewater services to customers in portions of Calaveras County in the Central Sierra Nevada foothills in the northeastern part of the State. CCWD boundaries encompass approximately 1,037 square miles of land, ranging from the San Joaquin Valley at its western edge to the Sierra Nevada Mountains in the east. The District must collect sufficient revenues from its customers to pay the costs to (1) prudently operate and maintain each of its two utilities (2) build, renew, replace, and upgrade its infrastructure, and (3) ensure a prudent reserve of funds.

The District collects rate revenues designed to ensure that each customer pays their fair share of their total use of the District's systems. This Cost-of-Service Study is intended to (1) establish the total projected cost for each system over a five-year period (the financial plan); and (2) allocate those costs among customers in a way that ensures that each customer pays its fair share of those costs in compliance with California Constitution Article XIII D, section 6, also known as Proposition 218 (the rate structure).

The District's most recent 5-year rate schedule was adopted in May 2018, with rate schedules from Fiscal Year 2018-19 (FY 2019) through FY 2023. The District selected IB Consulting to conduct a comprehensive cost-of-service analysis to establish rates for the District's water and wastewater systems for the 5-year period from FY 2024 through FY 2028 (Rate Setting Period). That analysis is set forth below.

### Water Utility Summary

#### Financial Plan

Updating the water utility's long-term financial plan and performing a comprehensive cost-of-service analysis is a prudent business practice to ensure the District can fully fund its revenue needs through FY 2028 and beyond. The first step in reviewing and updating water rates is to thoroughly check the financial health of the District's water utility. Based on a financial review of the water utility at current rates, the District is projected to end FY 2024 with an operating deficit of -\$2.2M, which will grow to approximately -\$5.1M by FY 2028. In addition, the District's outstanding debt obligations require debt service coverage equal to 125% of the annual debt payments, which would not be satisfied in FY 2024 without any rate adjustments. Separate from operating expenses, the water utility has significant capital projects over the next five years totaling \$55.3M, which does not encompass all capital projects. Through multiple reviews by District staff, non-critical projects that were originally scheduled during the Rate Setting Period have been removed.

The District has an existing loan with \$18.6M of available funding remaining to support the planned capital projects, with the balance of funding coming from reserves. However, without rate increases, reserves would be depleted by FY 2026. The proposed financial plan generates an additional \$42M in rate revenue, phased in over the Rate Setting Period. In addition, a new debt issuance is proposed to occur in FY 2025, providing additional proceeds of \$16.5M to cover the capital expenses through FY 2027 and a portion of FY 2028. The new debt issue and related proceeds will allow rate revenue to increase more slowly over time and fund a majority of capital on a Pay-As-You-Go (PAYGO) basis by FY 2028.

The total proposed debt issue, covering both water and wastewater utilities, is expected to equal \$22.5M, with \$16.5M for the water utility and \$6M for the wastewater utility. The debt financing assumes a 20-year term at a 5% annual interest rate, with a 2% issuance cost.



#### Rate Structure

The District's water rate structure has both fixed and variable components. The fixed component includes a base fixed charge and a separate R&R charge that goes directly to the District's capital needs. Both fixed charges vary by meter size and are charged to all customers.

Variable rates differ by customer class due to variations in their use of the system and, therefore the costs to serve those customer classes. Single-Family customers are currently subject to a four-tiered rate structure, charged in Hundred Cubic Feet<sup>1</sup> (HCF) increments. All other customer classes pay their proportionate share of costs through uniform rates per HCF.

The detailed cost-of-service analysis within this report includes adjustments to the existing rate structure. The proposed fixed charges will still recover a majority of the District's revenue requirements (75% fixed cost recovery); however, the R&R component will no longer be a separate dedicated charge. This will allow the District to use those funds for capital, debt payments related to capital, and to satisfy the debt service coverage requirements. Residential tiers will reduce from four tiers to a three-tiered rate structure reflecting water usage characteristics throughout the year (Tier 1 = winter average [15 hcf], Tier 2 = summer average [30 hcf], and Tier 3 = greater than Tier 2).

Due to the broad spectrum of possible commercial uses within the Non-Residential category, the Non-Residential rate structure will maintain a uniform rate to ensure equity between accounts within the customer class. Similarly, Irrigation will also maintain a uniform rate as tiered rates would require additional data related to the amount of irrigable area served by each meter.

By adopting the proposed financial plan and approving rates through FY 2028, the water utility will generate positive net income above operating expenses, cover its system reinvestments and exceed its minimum reserve requirement by FY 2028.

The proposed rates were noticed, and a Public Hearing was held on September 13, 2023, on the proposed rates identified in Table 1 and Table 2. A majority protest did not exist to the proposed water rates; however, after deliberation, the Board approved reduced water rates. *A summary of the reductions and corresponding water rates are identified in Appendix A*.

Table 1: Proposed Bi-Monthly Water Fixed Charge
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Total Fixed Meter Charges (\$/Bi-Month)							
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028		
5/8"	\$136.03	\$160.52	\$186.21	\$216.01	\$248.42		
3/4"	\$191.20	\$225.62	\$261.72	\$303.60	\$349.14		
1"	\$301.54	\$355.82	\$412.76	\$478.81	\$550.64		
1 1/2"	\$577.39	\$681.33	\$790.35	\$916.81	\$1,054.34		
2"	\$908.41	\$1,071.93	\$1,243.44	\$1,442.40	\$1,658.76		
3"	\$1,791.13	\$2,113.54	\$2,451.71	\$2,843.99	\$3,270.59		
4"	\$2,784.19	\$3,285.35	\$3,811.01	\$4,420.78	\$5,083.90		
6"	\$5,542.69	\$6,540.38	\$7,586.85	\$8,800.75	\$10,120.87		
8"	\$8,852.89	\$10,446.42	\$12,117.85	\$14,056.71	\$16,165.22		

<sup>&</sup>lt;sup>1</sup> 1 HCF = 748 gallons



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Table 2: Proposed Variable Water Rates

Variable Rates (\$/HCF)								
Customer Class	Tier Definitions (HCF)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028		
Residential								
Tier 1	0 - 15	\$2.07	\$2.45	\$2.85	\$3.31	\$3.81		
Tier 2	16 - 30	\$2.25	\$2.66	\$3.09	\$3.59	\$4.13		
Tier 3	>30	\$2.49	\$2.94	\$3.42	\$3.97	\$4.57		
Non-Residential	Uniform	\$2.29	\$2.71	\$3.15	\$3.66	\$4.21		
Irrigation	Uniform	\$2.27	\$2.68	\$3.11	\$3.61	\$4.16		

#### Wastewater Utility Summary

Based on a financial review of the wastewater utility at current rates, the District will cover operating expenses and generate positive net income through FY 2027, with a projected deficit in FY 2028. However, net annual operating income alone cannot cover the capital spending needs for system reinvestment. Therefore, additional rate revenue is needed to fund system reinvestment and build up reserves to satisfy the utility's minimum reserve requirements. The proposed financial plan and recommended adjustments would generate an additional \$16M over the Rate Setting Period, and the proposed FY 2025 debt issuance would provide \$6M in new money to fund capital costs in FY 2025 and a portion in FY 2026. The proposed financial plan would leverage debt to fund capital in the short-term while rate revenue increases through a phase-in approach to cover the capital spending needs on a PAYGO by FY 2027.

The District's existing wastewater rate structure consists of flat monthly fixed charges to residential customers for each dwelling unit. Commercial customers are also charged a monthly fixed charge per Equivalent Dwelling Unit (EDU). The proposed wastewater rates derived within this report include a slight restructuring of commercial wastewater rates, where the rate per EDU will be equivalent to the Residential rate. The assignment of EDUs to each commercial account will remain the same.

The proposed rates were noticed, and a Public Hearing was held on September 13, 2023, on the proposed rates identified in Table 3. A majority protest did not exist to the proposed wastewater rates; however, after deliberation, the Board approved reduced wastewater rates. A summary of the reductions and corresponding wastewater rates are identified in Appendix B.

Table 3: Proposed Wastewater Rates

Total Fixed Charges (\$/Bi-Month/EDU)							
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028		
Residential	\$239.39	\$272.90	\$311.09	\$354.64	\$365.26		
Non-Residential	\$239.39	\$272.90	\$311.09	\$354.64	\$365.26		



### **Water Utility**

#### Water System

The District provides water from groundwater wells and the Mokelumne, Calaveras, and Stanislaus rivers to six service areas ranging in elevation from 200 feet to over 8,000 feet. The District water facilities also include 287.5 miles of water mains, 18 pump stations, six treatment facilities, and 27 treated water storage tanks with approximately 13,359 service connections.

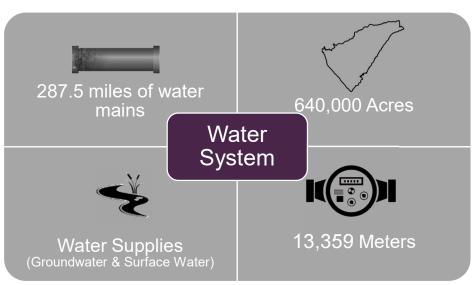


Figure 1: District Water System

The District developed a detailed Capital Improvement Plan (CIP) through FY 2028 that continues a contribution to system reinvestment that outpaces the annual deprecation of capital assets and totals approximately \$55.3M over the Rate Setting Period. The District plans to fund these capital projects through grants, capacity fee receipts, debt proceeds, and rates/reserves. Figure 2 shows the District's CIP through FY 2028 with existing funding sources.

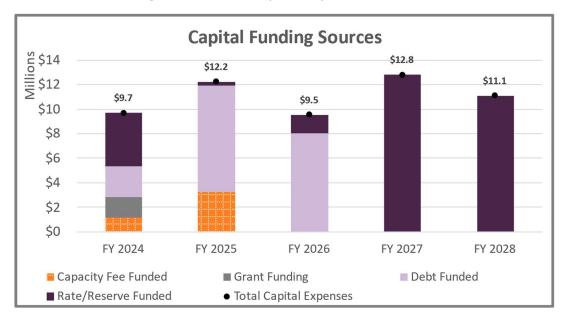


Figure 2: Water Capital Improvement Plan

#### Customers

The District serves 13,359 water meters, with over 95% of accounts classified as residential. Table 4 provides a summary of accounts by meter size.

Residential Meter Size Non-Residential Irrigation Total 5/8" 12,767 385 79 13,231 3/4" 2 1 0 3 1" 15 79 8 56 1 1/2" 1 16 6 23 2" 5 0 16 21 0 0 2 Total 12,778 476 105

Table 4: Water Meters by Meter Size

The existing rate structure consists of a base bi-monthly fixed meter charge, an R&R fixed charge for capital spending, and variable rates that vary by customer class, with Residential subject to a four-tiered rate structure. Current bi-monthly fixed charges are identified in Table 5 and Table 6, followed by variable rates shown in Table 7.



Table 5: FY 2023 Bi-Monthly Base Fixed Water Charges

Base Fixed Mete	r Charges (\$/Bi-Month)
Meter Size	Existing
5/8"	\$85.79
3/4"	\$128.69
1"	\$214.49
1 1/2"	\$428.95
2"	\$686.33
3"	\$1,372.66
4"	\$2,144.79
6"	\$4,289.50
8"	\$6,172.00

Table 6: FY 2023 Bi-Monthly R&R Fixed Water Charges

R&R Fixed Meter ( Meter Size	Charges (\$/Bi-Month) Existing
5/8"	\$34.56
3/4"	\$51.84
1"	\$86.40
1 1/2"	\$172.82
2"	\$276.50
3"	\$553.00
4"	\$864.06
6"	\$1,728.00
8"	\$3,456.00



Table 7: FY 2023 Variable Water Rates

Variable Rates (\$/HCF)				
Customer	Existing			
Residential	_			
Tier 1	\$1.17			
Tier 2	\$1.22			
Tier 3	\$1.68			
Tier 4	\$1.90			
Non-Residential	\$1.57			
Irrigation	\$1.91			



## Financial Plan Overview - Water Utility

### Financial Planning

Financial planning incorporates numerous considerations, including projecting revenues and forecasting expected costs using various inflationary adjustments. Utilities also need to account for changes in water demand driven by variations in weather, changes to water supplies and water availability, state mandates, growth, and economic factors. In addition, system maintenance and reinvestment, reserves, and debt service requirements all influence the revenues needed in future years. Therefore, a comprehensive financial plan reviews the following:

- 1) Historical water sales and consumption patterns to determine an appropriate usage level for projecting future water demands.
- Operational costs that may change over the planning period because of inflation, unique circumstances of the agency, new expenditures added to meet strategic goals, state mandates, or changes in operations.
- 3) Multi-year system improvement needs and scheduling based on priority. This review also considers available funding sources to complete projects, such as PAYGO, grants, loans, and debt financing.
- 4) Reserve funding to meet adopted reserve policies. The goal is to generate adequate cash on hand to mitigate financial risks related to operating cashflow needs, unexpected increases in expenses, shortages in system reinvestment, and mitigating potential system failures.

Figure 3 illustrates the key elements when developing a long-term financial plan.



Figure 3: Financial Plan Key Elements

### Financial Planning Assumptions

Developing a long-term financial plan requires an understanding of the District's financial position by evaluating existing revenue streams, ongoing expenses, how those expenses will change over time, existing debt requirements, and reserve policies. With these considerations, certain assumptions are required for projecting revenues, expenses, and expected ending fund balances. Through discussions with staff and their understanding of historical budget data and future obligations, Table 8 identifies assumptions for forecasting revenues. Table 9 details the number of accounts by meter size, and Table 10 identifies projected usage by customer class and tier. For forecasting revenues, our analysis assumes no growth in accounts as a conservative assumption, so projected revenues do not rely on development to occur.

Table 8: Assumptions for Forecasting Revenues

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Escalation					
Non-Inflated	0.0%	0.0%	0.0%	0.0%	0.0%
Non-Rate Revenues	0.0%	0.0%	0.0%	0.0%	0.0%
Reserve Interest	1.5%	1.5%	1.5%	1.5%	1.5%
Account Growth					
Residential	0.0%	0.0%	0.0%	0.0%	0.0%
Non-Residential	0.0%	0.0%	0.0%	0.0%	0.0%
Irrigation	0.0%	0.0%	0.0%	0.0%	0.0%
Water Sales					
Customer Usage (HCF)	1,628,790	1,628,790	1,628,790	1,628,790	1,628,790
Customer Usage (AF)	3,739	3,739	3,739	3,739	3,739

Table 9: Accounts by Meter Size – FY 2024 through FY 2028

Customer Accounts	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
All Meters					
Meter Size					
5/8"	13,231	13,231	13,231	13,231	13,231
3/4"	3	3	3	3	3
1"	79	79	79	79	79
1 1/2"	23	23	23	23	23
2"	21	21	21	21	21
3"	2	2	2	2	2
4"	0	0	0	0	0
6"	0	0	0	0	0
8"	0	0	0	0	0
Total All Meters	13,359	13,359	13,359	13,359	13,359



Table 10: Projected Consumption (HCF) – FY 2024 through FY 2028

Consumption by Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Residential					_
Tier 1	444,543	444,543	444,543	444,543	444,543
Tier 2	673,122	673,122	673,122	673,122	673,122
Tier 3	159,501	159,501	159,501	159,501	159,501
Tier 4	87,561	87,561	87,561	87,561	87,561
Subtotal Residential Consumption (HCF)	1,364,727	1,364,727	1,364,727	1,364,727	1,364,727
Non-Residential	144,435	144,435	144,435	144,435	144,435
Irrigation	119,628	119,628	119,628	119,628	119,628
Total Consumption by Customer Class (HCF)	1,628,790	1,628,790	1,628,790	1,628,790	1,628,790

Table 11 identifies assumptions used for forecasting increases in expenses over the Rate Setting Period.

Table 11: Assumptions for Forecasting Expense Requirements<sup>2</sup>

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Expenditure Escalation					
Benefits	3.0%	3.0%	3.0%	3.0%	3.0%
Capital Construction	7.2%	3.9%	3.9%	3.9%	3.9%
Energy Costs	5.0%	5.0%	5.0%	5.0%	5.0%
General Costs	5.6%	3.5%	3.5%	3.5%	3.5%
Non-Inflated	0.0%	0.0%	0.0%	0.0%	0.0%
Retirement	5.0%	5.0%	5.0%	5.0%	5.0%
Salaries	5.0%	5.0%	5.0%	5.0%	5.0%
Purchased Water	5.0%	5.0%	5.0%	5.0%	5.0%
Treatment	5.0%	5.0%	5.0%	5.0%	5.0%

### **Current Financial Position**

#### Revenues

Based on the forecasting assumptions, fixed revenues were calculated using account data by meter size (Table 9) and existing fixed charges (Table 5 and Table 6). Variable revenues were calculated using existing variable rates (Table 7) and projected total water sales by customer class (Table 10). Table 12 shows the calculated rate revenues through the Rate Setting Period. Table 13 summarizes calculated rate revenues from Table 12 and other operating and non-rate revenues available through the Rate Setting Period with projections rounded to the nearest thousands.

<sup>&</sup>lt;sup>2</sup> Capital Construction inflation and General Costs for FY 2024 were increased to 7.2% and 5.6%, respectively, to account for recent increases due to inflation. Outer years reduce to 3.9% and 3.5%, reflecting the 5-year average of the Engineering News-Record – Construction Cost index and the San Francisco Area Consumer Price Index, respectively.



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Table 12: Water Calculated Rate Revenues

Total Rate Revenue	\$12,158,349	\$12,158,349	\$12,158,349	\$12,158,349	\$12,158,349
Total Variable Rate Revenue	\$2,230,904	\$2,230,904	\$2,230,904	\$2,230,904	\$2,230,904
Irrigation	\$228,489	\$228,489	\$228,489	\$228,489	\$228,489
Non-Residential	\$226,763	\$226,763	\$226,763	\$226,763	\$226,763
Residential Variable Revenue	\$1,775,652	\$1,775,652	\$1,775,652	\$1,775,652	\$1,775,652
Tier 4	\$166,366	\$166,366	\$166,366	\$166,366	\$166,366
Tier 3	\$267,962	\$267,962	\$267,962	\$267,962	\$267,962
Tier 2	\$821,209	\$821,209	\$821,209	\$821,209	\$821,209
Residential Tier 1	\$520,115	\$520,115	\$520,115	\$520,115	\$520,115
Variable Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Total R&R Fixed Charges	\$2,850,791	\$2,850,791	\$2,850,791	\$2,850,791	\$2,850,791
Irrigation	\$38,674	\$38,674	\$38,674	\$38,674	\$38,674
Non-Residential	\$158,946	\$158,946	\$158,946	\$158,946	\$158,946
Residential	\$2,653,171	\$2,653,171	\$2,653,171	\$2,653,171	\$2,653,171
R&R Fixed Charges					
Total Base Fixed Charge	\$7,076,654	\$7,076,654	\$7,076,654	\$7,076,654	\$7,076,654
Irrigation	\$96,001	\$96,001	\$96,001	\$96,001	\$96,001
Non-Residential	\$394,554	\$394,554	\$394,554	\$394,554	\$394,554
Residential	\$6,586,099	\$6,586,099	\$6,586,099	\$6,586,099	\$6,586,099
Base Fixed Charge					
Fixed Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028



Table 13: Water Projected Revenues

Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues					
Base Fixed Charge	\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000
R&R Fixed Charges	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000
Variable Revenues	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000
Subtotal Rate Revenues	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000
Operating Revenues					
Water Sales - Fire Hydrant	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000
Account Establishment Fees	\$47,000	\$47,000	\$47,000	\$47,000	\$47,000
Delinquent Account Charge	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
Backflow Certification Testing	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Install Water Meter	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Repair Labor/Materials	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Reimbursable Expense	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000
Other Operating Revenue	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000
Subtotal Operating Revenues	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000
Other Revenues					
Rental Revenue	\$61,000	\$61,000	\$61,000	\$61,000	\$61,000
Interest Income/CCWD Investments	\$103,000	\$44,000	\$44,000	\$44,000	\$44,000
Property Taxes	\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000
Standby Fees	\$96,000	\$96,000	\$96,000	\$96,000	\$96,000
Power Sales - North Fork	\$453,000	\$453,000	\$453,000	\$453,000	\$453,000
Power Sales - New Hogan	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000
Other Non-Operating Revenue	\$522,000	\$522,000	\$522,000	\$522,000	\$522,000
Subtotal Other Revenues	\$4,329,000	\$4,270,000	\$4,270,000	\$4,270,000	\$4,270,000
Total Revenues	\$16,871,000	\$16,812,000	\$16,812,000	\$16,812,000	\$16,812,000



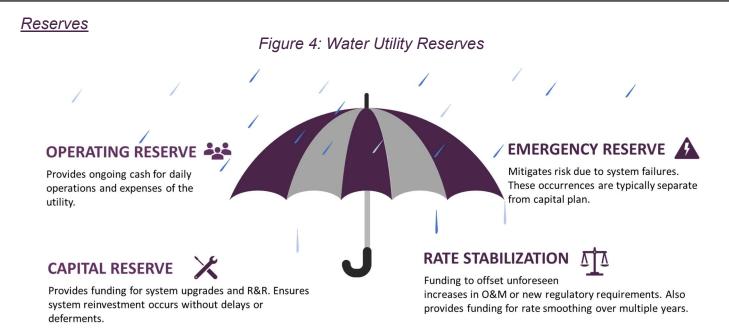
#### **Expenses**

The FY 2023 budget was used as the baseline expenses of the utility and adjusted in subsequent years based on the escalation factors shown in Table 11. Table 14 provides projected Operational & Maintenance (O&M) costs through the Rate Setting Period, with future projections (except for debt) rounded to the nearest thousands. Each O&M expense category includes detailed line-item expenditures that were discussed with staff to determine the appropriate escalation factor for forecasting how costs will increase over time.

Table 14: Projected O&M Expenses

0&M Expenses	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses					
Non-Departmental (50)	\$1,069,000	\$1,118,000	\$1,169,000	\$1,223,000	\$1,279,000
Utility Services (54)	\$8,290,000	\$8,624,000	\$8,999,000	\$9,443,000	\$9,855,000
Utility Services (54) - Power & Chemicals	\$1,978,000	\$2,077,000	\$2,180,000	\$2,289,000	\$2,404,000
General Management (56)	\$1,008,000	\$1,055,000	\$1,103,000	\$1,155,000	\$1,208,000
Board of Directors (57)	\$134,000	\$143,000	\$148,000	\$153,000	\$158,000
Engineering/Technical Services (58)	\$1,223,000	\$1,279,000	\$1,338,000	\$1,399,000	\$1,463,000
Administrative Services (59)	\$1,551,000	\$1,482,000	\$1,548,000	\$1,616,000	\$1,688,000
Water Resources (60)	\$1,713,000	\$1,781,000	\$1,851,000	\$1,925,000	\$2,002,000
Subtotal Operating Expenses	\$16,966,000	\$17,559,000	\$18,336,000	\$19,203,000	\$20,057,000
Debt Service					
Series 2016 Water Revenue Bonds	\$101,144	\$101,134	\$101,099	\$101,138	\$101,051
Series 2019 Taxable Revenue Refunding Loar	\$322,031	\$314,513	\$306,994	\$298,806	\$290,640
Series 2021 Water Revenue COP	\$172,703	\$173,145	\$172,553	\$172,943	\$173,298
2022 Water CIP Loan	\$1,316,542	\$1,317,227	\$1,317,236	\$1,316,569	\$1,317,226
2020 VacCon Loan (VacCon Truck #1)	\$91,306	\$22,826	\$0	\$0	\$0
2020 VacCon Loan (VacCon Truck #2)	\$90,472	\$90,479	\$45,236	\$0	\$0
SEWD (New Hogan)	\$55,751	\$55,752	\$0	\$0	\$0
New/Proposed Debt	\$0	\$0	\$0	\$0	\$0
Subtotal Debt Service	\$2,149,949	\$2,075,076	\$1,943,118	\$1,889,456	\$1,882,215
Total Expenses	\$19,115,949	\$19,634,076	\$20,279,118	\$21,092,456	\$21,939,215





Established reserves include Operating, Capital, Rate Stabilization, and Emergency. These reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations and cover funding for annual system improvements. In addition, these reserves help smooth rates and mitigate rate spikes due to emergencies or above-average system costs. Table 15 summarizes the minimum reserve requirements and ideal targets of each reserve.

Table 15: Reserve Requirements and Targets

Reserve	Minimum Requirement	Reserve Target
Operating	90 days of operating expenses	120 days of operating expenses
Capital	1 Year of Depreciation average	Two years of CIP costs based on 5-year average
Rate Stabilization	10% of Operating Revenues	N/A
Emergency	3% of System Assets	5% of System Assets

As of July 1, 2022, the reserve balance equaled approximately \$17.5M.

### <u>Financial Outlook at Existing Rates</u>

Calculating revenue using existing rates and projecting expenses helps determine the current financial health of the utility. Revenues from current rates will not cover operating expenses. In addition, capital spending towards repair & replacement would require using reserves as the primary funding source once the remaining debt proceeds are expended, which is not sustainable. Table 16 forecasts existing revenues and expenses through the Rate Setting Period. Table 17 identifies reserve transfers and reserve activity, with projected FY 2024 starting reserve balances shown for each reserve.



Table 16: Water Financial Plan at Existing Rates

Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues		112024	1 1 2020	1 1 2020	11 2027	
Base Fixed Charge		\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000
R&R Fixed Charges	Table 12	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000
Variable Revenues	10010 12	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000
Total Rate Revenues		\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000
Projected Rate Revenues		\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000
Operating Revenues					, , ,	
Water Sales - Fire Hydrant		\$170,000	\$170,000	\$170,000	\$170,000	\$170,000
Account Establishment Fees		\$47,000	\$47,000	\$47,000	\$47,000	\$170,000
Delinquent Account Charge		\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
Backflow Certification Testing	Table 13	\$4,000	\$4,000	\$4,000	\$4,000	\$33,000
Install Water Meter	Table 13	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Repair Labor/Materials		\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Reimbursable Expense		\$33,000	\$33,000	\$33,000	\$33,000	\$18,000
Other Operating Revenue		\$26,000	\$26,000	\$33,000	\$33,000	\$33,000
Subtotal Operating Revenues		\$383,000	\$383,000	\$383,000	\$383,000	\$383,000
· -		γ303,000	ψ303,000	<b>\$303,000</b>	<b>7303,000</b>	<b>γ303,000</b>
Other Revenues Rental Revenue		\$61,000	\$61,000	\$61,000	\$61,000	\$61,000
		\$103,000	\$44,000	\$44,000	\$44,000	\$44,000
Interest Income/CCWD Investments		\$3,036,000		\$3,036,000	\$3,036,000	
Property Taxes	Table 13		\$3,036,000			\$3,036,000
Standby Fees	Table 15	\$96,000 \$453,000	\$96,000	\$96,000	\$96,000	\$96,000
Power Sales - North Fork		. ,	\$453,000	\$453,000	\$453,000	\$453,000
Power Sales - New Hogan		\$58,000	\$58,000	\$58,000	\$58,000	\$58,000
Other Non-Operating Revenue Subtotal Other Revenues		\$522,000 \$4,329,000	\$522,000 \$4,270,000	\$522,000 \$4,270,000	\$522,000 \$4,270,000	\$522,000 \$4,270,000
Total Revenues		\$16,871,000	\$16,812,000	\$16,812,000	\$16,812,000	\$16,812,000
0&M Expenses		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses		44.050.000	44.440.000	41.450.000	44 222 222	Å1 370 000
Non-Departmental (50)		\$1,069,000	\$1,118,000	\$1,169,000	\$1,223,000	\$1,279,000
Utility Services (54)			4		4	4
		\$8,290,000	\$8,624,000	\$8,999,000	\$9,443,000	\$9,855,000
Utility Services (54) - Power & Chemicals		\$1,978,000	\$2,077,000	\$2,180,000	\$2,289,000	\$2,404,000
General Management (56)	Table 14	\$1,978,000 \$1,008,000	\$2,077,000 \$1,055,000	\$2,180,000 \$1,103,000	\$2,289,000 \$1,155,000	\$2,404,000 \$1,208,000
General Management (56) Board of Directors (57)	Table 14	\$1,978,000 \$1,008,000 \$134,000	\$2,077,000 \$1,055,000 \$143,000	\$2,180,000 \$1,103,000 \$148,000	\$2,289,000 \$1,155,000 \$153,000	\$2,404,000 \$1,208,000 \$158,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58)	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000	\$2,180,000 \$1,103,000 \$148,000 \$1,338,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59)	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000	\$2,180,000 \$1,103,000 \$148,000 \$1,338,000 \$1,548,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60)	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000	\$2,180,000 \$1,103,000 \$148,000 \$1,338,000 \$1,548,000 \$1,851,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000 \$2,002,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59)	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000	\$2,180,000 \$1,103,000 \$148,000 \$1,338,000 \$1,548,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60)	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses Debt Service	Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses Debt Service Series 2016 Water Revenue Bonds		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan	Table 14  Table 14	\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227 \$22,826	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP 2022 Water CIP Loan		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703 \$1,316,542	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553 \$1,317,236	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943 \$1,316,569	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298 \$1,317,226
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses  Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP 2022 Water CIP Loan 2020 VacCon Loan (VacCon Truck #1)		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703 \$1,316,542 \$91,306	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227 \$22,826	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553 \$1,317,236 \$0	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943 \$1,316,569 \$0	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298 \$1,317,226 \$0
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses  Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP 2022 Water CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan) New/Proposed Debt		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703 \$1,316,542 \$91,306 \$90,472 \$55,751 \$0	\$2,077,000 \$1,055,000 \$1,43,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227 \$22,826 \$90,479 \$55,752 \$0	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553 \$1,317,236 \$0 \$45,236 \$0 \$0	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943 \$1,316,569 \$0 \$0 \$0 \$0	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298 \$1,317,226 \$0 \$0 \$0
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses  Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP 2022 Water CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan)		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703 \$1,316,542 \$91,306 \$90,472 \$55,751	\$2,077,000 \$1,055,000 \$1,43,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227 \$22,826 \$90,479 \$55,752	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553 \$1,317,236 \$0 \$45,236 \$0	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943 \$1,316,569 \$0 \$0 \$0	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298 \$1,317,226 \$0 \$0 \$0
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses  Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP 2022 Water CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan) New/Proposed Debt		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703 \$1,316,542 \$91,306 \$90,472 \$55,751 \$0	\$2,077,000 \$1,055,000 \$1,43,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227 \$22,826 \$90,479 \$55,752 \$0	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553 \$1,317,236 \$0 \$45,236 \$0 \$0	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943 \$1,316,569 \$0 \$0 \$0 \$0	\$2,404,000 \$1,208,000 \$1,58,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298 \$1,317,226 \$0 \$0 \$0
General Management (56) Board of Directors (57) Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Subtotal Operating Expenses  Debt Service Series 2016 Water Revenue Bonds Series 2019 Taxable Revenue Refunding Loan Series 2021 Water Revenue COP 2022 Water CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan) New/Proposed Debt Subtotal Debt Service		\$1,978,000 \$1,008,000 \$134,000 \$1,223,000 \$1,551,000 \$1,713,000 \$16,966,000 \$101,144 \$322,031 \$172,703 \$1,316,542 \$91,306 \$90,472 \$55,751 \$0 \$2,149,949	\$2,077,000 \$1,055,000 \$143,000 \$1,279,000 \$1,482,000 \$1,781,000 \$17,559,000 \$101,134 \$314,513 \$173,145 \$1,317,227 \$22,826 \$90,479 \$55,752 \$0 \$2,075,076	\$2,180,000 \$1,103,000 \$1,48,000 \$1,338,000 \$1,548,000 \$1,851,000 \$18,336,000 \$101,099 \$306,994 \$172,553 \$1,317,236 \$0 \$45,236 \$0 \$0 \$1,943,118	\$2,289,000 \$1,155,000 \$153,000 \$1,399,000 \$1,616,000 \$1,925,000 \$19,203,000 \$101,138 \$298,806 \$172,943 \$1,316,569 \$0 \$0 \$0 \$1,889,456	\$2,404,000 \$1,208,000 \$158,000 \$1,463,000 \$1,688,000 \$2,002,000 \$20,057,000 \$101,051 \$290,640 \$173,298 \$1,317,226 \$0 \$0 \$0 \$1,882,215



Table 17: Water – Transfers and Reserve Activity at Existing Rates

Operating Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$1,521,662	(\$723,287)	(\$3,545,363)	(\$7,012,481)	(\$11,292,937)
Transfers (Net Cashflow )	(\$2,244,949)	(\$2,822,076)	(\$3,467,118)	(\$4,280,456)	(\$5,127,215)
Ending Balance	(\$723,287)	(\$3,545,363)	(\$7,012,481)	(\$11,292,937)	(\$16,420,152)
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$5,418,037	\$1,148,102	\$836,807	(\$708,104)	(\$13,506,954)
Plus:					
New Debt Proceeds	\$0	\$0	\$0	\$0	\$0
Sources & Uses					
Water CIP Loan Proceeds	\$2,000,000	\$8,613,557	\$8,000,000	\$0	\$0
USDA RD AMI/AMR Reimbursements	\$517,901	\$0	\$0	\$0	\$0
Grant Funding	\$1,700,000	\$0	\$0	\$0	\$0
Capacity Fee Revenue	\$1,150,000	\$3,272,553	\$0	\$0	\$0
<u>Less:</u>					
CIP	(\$9,686,715)	(\$12,212,181)	(\$9,544,910)	(\$12,798,851)	(\$11,085,240)
Subtotal Capital Reserve	\$1,099,223	\$822,031	(\$708,104)	(\$13,506,954)	(\$24,592,194)
Interest Earnings	\$48,879	\$14,776	\$0	\$0	\$0
Ending Balance	\$1,148,102	\$836,807	(\$708,104)	(\$13,506,954)	(\$24,592,194)
Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$0	\$0	\$0	\$0	\$0
Direct transfers to/(from) Rate Stabilization Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$0	\$0	\$0	\$0	\$0
Emergency Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000
Direct transfers to/(from) Emergency Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000
Ending Unrestricted Reserve Balance	\$3,344,815	\$211,443	(\$4,800,585)	(\$21,879,892)	(\$38,092,347)

Figure 5 illustrates the operating position of the utility, where O&M expenses are identified with the dashed red trendline, and the horizontal black trendline shows total revenues at existing rates. The bars represent the net operating income, with grey bars reflecting positive net income for capital spending and reserve funding and red bars reflecting an operating deficit absorbed by reserves.



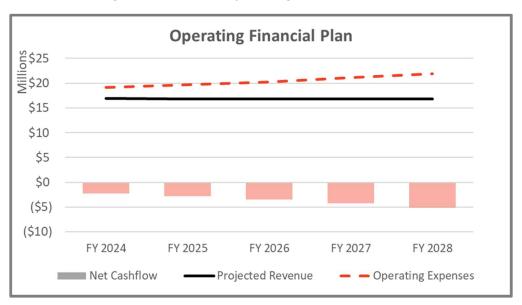


Figure 5: Current Operating Financial Position

With capital spending of \$55.3M over the Rate Setting Period, as shown in Figure 2, reserves would be depleted and no capital funding would be available by FY 2026. Figure 6 reflects the projected ending balances of undesignated reserves after funding operating and capital projects. Unrestricted reserves include Operating, Capital, Rate Stabilization, and Emergency reserves.

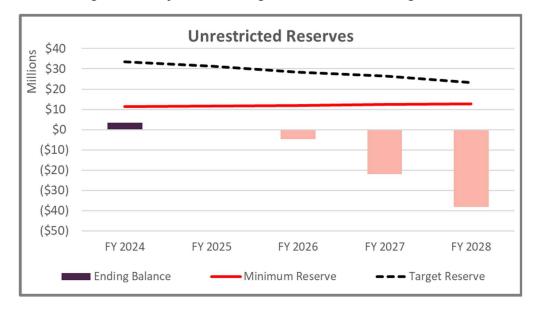


Figure 6: Projected Ending Reserves at Existing Rates

### **Proposed Financial Plan – Water Utility**

From our review of the utility's financial outlook at existing rates, a proposed financial plan is developed to fund the multi-year revenue requirements. The proposed financial plan generates approximately \$42M in additional revenue over the Rate Setting Period. The additional revenue generates positive net operating income starting in FY 2025 to go towards capital spending and satisfy reserve requirements. Table 18 forecasts projected revenues, *with annual revenue adjustments* and expenses through FY 2028, including \$16.5M in proposed debt. Table 19 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 18, transfers between reserves, use of capacity fees, and annual CIP), and projected ending balances for each fiscal year of the Rate Setting Period.



Table 18: Proposed Water Financial Plan

Revenue				FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues								
Base Fixed Charge				\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000
R&R Fixed Charges			Table 12	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000
Variable Revenues				\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000
Total Rate Revenues				\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000
Additional Revenue (from revenue	e adjustments):							
	D	ref ative						
Fiscal Year	Revenue Adjustment	Effective Month	=					
FY 2024	22.0%	October		\$2,229,000	\$2,674,000	\$2,674,000	\$2,674,000	\$2,674,000
FY 2025	18.0%	July			\$2,669,000	\$2,669,000	\$2,669,000	\$2,669,000
FY 2026	16.0%	July				\$2,800,000	\$2,800,000	\$2,800,000
FY 2027	16.0%	July					\$3,248,000	\$3,248,000
FY 2028 Total Additional Revenue	15.0%	July		\$2,229,000	\$5,343,000	\$8,143,000	\$11,391,000	\$3,532,000 \$14,923,000
	·							
Projected Rate Revenues (includ	ing revenue aajust	ments)		\$14,388,000	\$17,502,000	\$20,302,000	\$23,550,000	\$27,082,000
Operating Revenues Water Sales - Fire Hydrant				\$170,000	\$170,000	\$170,000	\$170,000	\$170,000
Account Establishment Fees				\$47,000	\$47,000	\$47,000	\$47,000	\$47,000
Delinquent Account Charge				\$55,000	\$55,000	\$55,000	\$55,000	\$55,000
Backflow Certification Testing	g		Table 13	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000
Install Water Meter	9			\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Repair Labor/Materials				\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Reimbursable Expense				\$33,000	\$33,000	\$33,000	\$33,000	\$33,000
Other Operating Revenue				\$26,000	\$26,000	\$26,000	\$26,000	\$26,000
Subtotal Operating Revenues				\$383,000	\$383,000	\$383,000	\$383,000	\$383,000
Other Revenues								
Rental Revenue				\$61,000	\$61,000	\$61,000	\$61,000	\$61,000
Interest Income/CCWD Invest	tments			\$103,000	\$67,000	\$75,000	\$104,000	\$125,000
Property Taxes				\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000
Standby Fees			Table 13	\$96,000	\$96,000	\$96,000	\$96,000	\$96,000
Power Sales - North Fork				\$453,000	\$453,000	\$453,000	\$453,000	\$453,000
Power Sales - New Hogan				\$58,000	\$58,000	\$58,000	\$58,000	\$58,000
Other Non-Operating Revenue	e			\$522,000	\$522,000	\$522,000	\$522,000	\$522,000
Subtotal Other Revenues				\$4,329,000	\$4,293,000	\$4,301,000	\$4,330,000	\$4,351,000
Total Revenues				\$19,100,000	\$22,178,000	\$24,986,000	\$28,263,000	\$31,816,000
0&M Expenses				FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses Non-Departmental (50)				\$1,069,000	\$1,118,000	\$1,169,000	\$1,223,000	\$1,279,000
Utility Services (54)				\$8,290,000	\$8,624,000	\$8,999,000	\$9,443,000	\$9,855,000
Utility Services (54) - Power 8	& Chemicals			\$1,978,000	\$2,077,000	\$2,180,000	\$2,289,000	\$2,404,000
General Management (56)				\$1,008,000	\$1,055,000	\$1,103,000	\$1,155,000	\$1,208,000
Board of Directors (57)			Table 14	\$134,000	\$143,000	\$148,000	\$153,000	\$158,000
Engineering/Technical Service	es (58)			\$1,223,000	\$1,279,000	\$1,338,000	\$1,399,000	\$1,463,000
Administrative Services (59)	,			\$1,551,000	\$1,482,000	\$1,548,000	\$1,616,000	\$1,688,000
Water Resources (60)				\$1,713,000	\$1,781,000	\$1,851,000	\$1,925,000	\$2,002,000
Subtotal Operating Expenses				\$16,966,000	\$17,559,000	\$18,336,000	\$19,203,000	\$20,057,000
Debt Service								
Series 2016 Water Revenue B				\$101,144	\$101,134	\$101,099	\$101,138	\$101,051
Series 2019 Taxable Revenue	U	n		\$322,031	\$314,513	\$306,994	\$298,806	\$290,640
Series 2021 Water Revenue C	COP			\$172,703	\$173,145	\$172,553	\$172,943	\$173,298
2022 Water CIP Loan			Table 14	\$1,316,542	\$1,317,227	\$1,317,236	\$1,316,569	\$1,317,226
2020 VacCon Loan (VacCon T	,			\$91,306	\$22,826	\$0	\$0	\$0
2020 VacCon Loan (VacCon T	ruck #2)			\$90,472	\$90,479	\$45,236	\$0	\$0
SEWD (New Hogan)				\$55,751	\$55,752	\$0	\$0	\$0
New/Proposed Debt Subtotal Debt Service				\$0	\$1,351,023	\$1,351,023	\$1,351,023	\$1,351,023
				\$2,149,949	\$3,426,099	\$3,294,141	\$3,240,479	\$3,233,238
Total Expenses				\$19,115,949	\$20,985,099	\$21,630,141	\$22,443,479	\$23,290,238
Net Cashflow				(\$15,949)	\$1,192,901	\$3,355,859	\$5,819,521	\$8,525,762



Table 19: Water – Transfers and Reserves Activity through FY 2028

Operating Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$1,521,662	\$1,505,713	\$2,698,613	\$5,333,459	\$5,534,009
Transfers (Net Cashflow )	(\$15,949)	\$1,192,901	\$3,355,859	\$5,819,521	\$8,525,762
Sources & Uses					
Transfers from/(to) Capital Reserve	\$0	\$0	(\$721,013)	(\$5,618,972)	(\$8,316,972)
Ending Balance	\$1,505,713	\$2,698,613	\$5,333,459	\$5,534,009	\$5,742,798
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$5,418,037	\$1,148,102	\$17,460,557	\$16,892,388	\$9,912,046
Plus:					
Transfers from/(to) Operating Fund	\$0	\$0	\$721,013	\$5,618,972	\$8,316,972
New Debt Proceeds	\$0	\$16,500,000	\$0	\$0	\$0
Sources & Uses					
Water CIP Loan Proceeds	\$2,000,000	\$8,613,557	\$8,000,000	\$0	\$0
USDA RD AMI/AMR Reimbursements	\$517,901	\$0	\$0	\$0	\$0
Grant Funding	\$1,700,000	\$0	\$0	\$0	\$0
Capacity Fee Revenue	\$1,150,000	\$3,272,553	\$0	\$0	\$0
<u>Less:</u>					
CIP	(\$9,686,715)	(\$12,212,181)	(\$9,544,910)	(\$12,798,851)	(\$11,085,240)
Subtotal Capital Reserve	\$1,099,223	\$17,322,031	\$16,636,659	\$9,712,509	\$7,143,778
Interest Earnings	\$48,879	\$138,526	\$255,729	\$199,537	\$127,919
Ending Balance	\$1,148,102	\$17,460,557	\$16,892,388	\$9,912,046	\$7,271,697
Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$0	\$0	\$0	\$0	\$0
Direct transfers to/(from) Rate Stabilization Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$0	\$0	\$0	\$0	\$0
Emergency Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000
Direct transfers to/(from) Emergency Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000
Ending Unrestricted Reserve Balance	\$5,573,815	\$23,079,170	\$25,145,848	\$18,366,055	\$15,934,495



The operating position based on the proposed financial plan is identified in Figure 7, including debt service coverage. To meet the debt coverage requirement in FY 2024, the District plans to buy down the principal with the available balance within the Rate Stabilization Reserve at the end of FY 2023, equal to \$520,000. Through this buy down and increasing rates, the District is projected to achieve a debt coverage ratio of 131%.

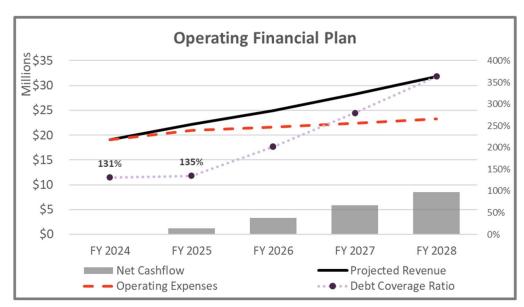


Figure 7: Water – Proposed Operating Position

Figure 8 and Figure 9 shows the capital plan with funding sources, including \$16.5M in new debt proceeds, and projected ending reserve balances, respectively.

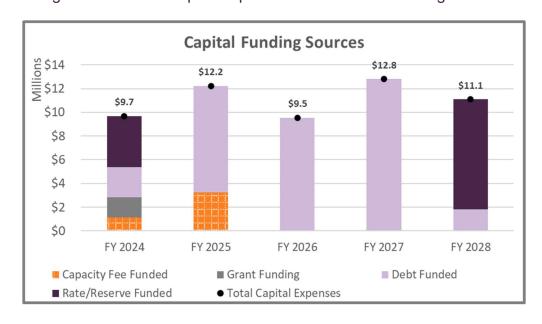


Figure 8: Water – Capital Improvement Plan with Funding Sources

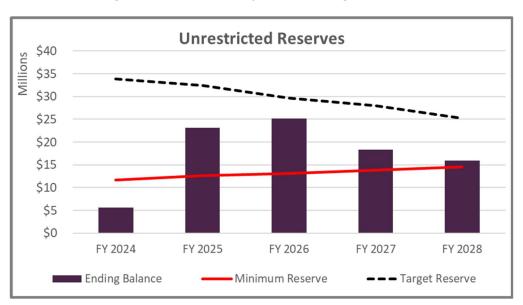


Figure 9: Water – Proposed Ending Reserves



### **Cost-of-Service Analysis – Water Utility**

#### Cost-of-Service Process

The next step in developing rates is to perform a cost-of-service analysis. This step develops proposed water rates that are cost-based and equitable. Meeting the requirements of Proposition 218 is of paramount importance in developing utility rates. Proposition 218 does not provide a particular methodology for establishing cost-based rates. This study and analysis herein allocate costs proportionately to each parcel served by the District and derives water rates that adhere to the cost-of-service provisions of Proposition 218.

Understanding how costs are incurred is important to determine the most appropriate way to recover them. The following graphic summarizes the cost-of-service process. This process allocates costs incurred to customer classes and tiers based on their proportional share. As a result, the proposed rates are cost-based and reflect the costs incurred to deliver water service to all customers.

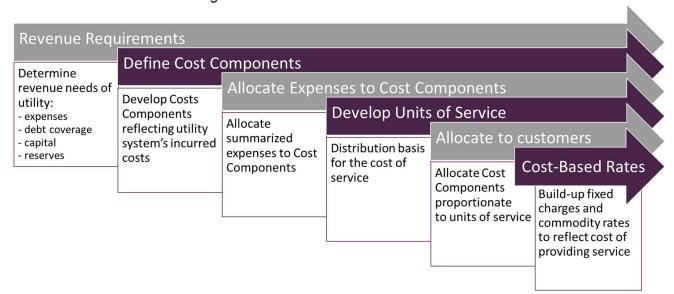


Figure 10: Cost-of-Service Process

### Revenue Requirements

With FY 2024 as the first year of the proposed rate schedule, revenue requirements are determined for FY 2024 and used for the cost-of-service. Revenue requirements include O&M expenses, available offsets from other operating and non-operating revenues, annual net income, and any mid-year adjustments if rates are implemented after the start of the fiscal year. The proposed revenue adjustments and corresponding rates collectively accumulate the necessary funding over the Rate Setting Period to fund total revenue requirements, including capital, while meeting minimum reserve requirements by FY 2028. The results of the financial plan analysis are summarized in Table 20 and represent the revenue required from rates over the Rate Setting Period.



Table 20: Water Revenue Requirements

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Requirements	Total	Total	Total	Total	Total
Operating Expenses					
Non-Departmental (50)	\$1,069,000	\$1,118,000	\$1,169,000	\$1,223,000	\$1,279,000
Utility Services (54)	\$8,290,000	\$8,624,000	\$8,999,000	\$9,443,000	\$9,855,000
Utility Services (54) - Power & Chemicals	\$1,978,000	\$2,077,000	\$2,180,000	\$2,289,000	\$2,404,000
General Management (56)	\$1,008,000	\$1,055,000	\$1,103,000	\$1,155,000	\$1,208,000
Board of Directors (57)	\$134,000	\$143,000	\$148,000	\$153,000	\$158,000
Engineering/Technical Services (58)	\$1,223,000	\$1,279,000	\$1,338,000	\$1,399,000	\$1,463,000
Administrative Services (59)	\$1,551,000	\$1,482,000	\$1,548,000	\$1,616,000	\$1,688,000
Water Resources (60)	\$1,713,000	\$1,781,000	\$1,851,000	\$1,925,000	\$2,002,000
Total Operating Expenses	\$16,966,000	\$17,559,000	\$18,336,000	\$19,203,000	\$20,057,000
Debt Service					
Series 2016 Water Revenue Bonds	\$101,144	\$101,134	\$101,099	\$101,138	\$101,051
Series 2019 Taxable Revenue Refunding Loan	\$322,031	\$314,513	\$306,994	\$298,806	\$290,640
Series 2021 Water Revenue COP	\$172,703	\$173,145	\$172,553	\$172,943	\$173,298
2022 Water CIP Loan	\$1,316,542	\$1,317,227	\$1,317,236	\$1,316,569	\$1,317,226
2020 VacCon Loan (VacCon Truck #1)	\$91,306	\$22,826	\$0	\$0	\$0
2020 VacCon Loan (VacCon Truck #2)	\$90,472	\$90,479	\$45,236	\$0	\$0
SEWD (New Hogan)	\$55,751	\$55,752	\$0	\$0	\$0
New/Proposed Debt	\$0	\$1,351,023	\$1,351,023	\$1,351,023	\$1,351,023
Total Debt Service	\$2,149,949	\$3,426,099	\$3,294,141	\$3,240,479	\$3,233,238
Other Funding					
Revenue Offsets					
Operating Revenues	(\$383,000)	(\$383,000)	(\$383,000)	(\$383,000)	(\$383,000)
Other Revenues	(\$4,329,000)	(\$4,293,000)	(\$4,301,000)	(\$4,330,000)	(\$4,351,000)
Subtotal Revenue Offsets	(\$4,712,000)	(\$4,676,000)	(\$4,684,000)	(\$4,713,000)	(\$4,734,000)
Adjustments					
Reserve Funding	(\$15,949)	\$1,192,901	\$3,355,859	\$5,819,521	\$8,525,762
Adjustment for Mid-Year Increase	\$445,800	\$0	\$0	\$0	\$0
Subtotal Adjustments	\$429,851	\$1,192,901	\$3,355,859	\$5,819,521	\$8,525,762
Total Other Funding	(\$4,282,149.00)	(\$3,483,099)	(\$1,328,141)	\$1,106,521	\$3,791,762
Revenue Requirement from Rates	\$14,833,800	\$17,502,000	\$20,302,000	\$23,550,000	\$27,082,000



### **Define Cost Components**

The utility incurs costs to accommodate total water demand throughout the year, including water supply costs, treatment, operating expenses, and pumping, to name a few. Therefore, to determine the most appropriate way to recover the utility's expenses, cost components are identified to allocate expenses based on how they are incurred. The cost components shown in Figure 11 reflect the cost components used for this study.

Figure 11: Cost Components



Account Services – Fixed expenses that do not necessarily fluctuate based on usage or meter size. Meter Capacity – O&M expenses, including executive staff, legal, professional services, and a portion of capital and reserves.

*Delivery* – Operating and capital expenses of the water system associated with conveying water to customers throughout the year. These costs tend to vary with the total water used.

Peaking – Expenses incurred to meet customer peak demands in excess of average day usage.

### <u>Allocate Expenses to Cost Components</u>

When allocating expenses to the defined cost components, it is essential to have a sound basis on why an expense was allocated to a certain fixed cost component versus a variable cost component or split between fixed and variable. The distribution of expenses to the cost components should be straightforward to ensure the method of apportionment is <u>understandable</u> and easily <u>correlates to how expenses are incurred</u>. A description of each expense category is identified on the next page.

#### **O&M Expense Categories:**

*Non-Departmental:* General expenses associated with the District as a whole, including office supplies, insurance, financial services, legal, professional services, and other miscellaneous expenses.

*Utility Services:* Costs associated with the daily operation of the water system and related facilities, including capital outlay, lab testing, fuel, tools, and vehicles.

*Utility Services – Power & Chemicals:* Costs associated with the pumping and treatment of water from the District's water sources, including energy and chemicals.

General Management: Legal and personnel costs of the District.

Board of Directors: Board of Directors stipends, benefits, training, supplies, and travel expenses.

Engineering/Technical Services: Costs associated with Engineering and Information Technology, such as personnel, supplies, training, computers, software, hardware, and contract services.

Administrative Services: Administrative expenses associated with the District as a whole, including executive staff, IT, maintenance contracts, accounting, and professional services, and other miscellaneous expenses.

*Water Resources:* Costs associated with overseeing water supplies, such as, personnel and maintenance of reservoirs, pump stations, dams, and wells.



Table 21 summarizes the percent allocation of O&M revenue requirements to the cost components, and Table 22 uses the percent allocations in Table 21 to allocate expenses in dollars to each cost component.

Table 21: O&M Expense Allocation to Cost Components (%)

Operating Expenses	Methodology / Allocation Basis	Account Services	Meter Capacity	Delivery	Peaking	Total
Non-Departmental (50)	Specific	100.0%	0.0%	0.0%	0.0%	100.0%
Utility Services (54)	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
Utility Services (54) - Power & Chemicals	Specific	0.0%	0.0%	0.0%	100.0%	100.0%
General Management (56)	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
Board of Directors (57)	Specific	100.0%	0.0%	0.0%	0.0%	100.0%
Engineering/Technical Services (58)	Specific	0.0%	0.0%	100.0%	0.0%	100.0%
Administrative Services (59)	Specific	100.0%	0.0%	0.0%	0.0%	100.0%
Water Resources (60)	Specific	0.0%	0.0%	100.0%	0.0%	100.0%

Table 22: O&M Expense Allocation to Cost Components (\$)

Operating Expenses	Methodology / Allocation Basis	Account Services	Meter Capacity	Delivery	Peaking	Total
Non-Departmental (50)	Specific	\$1,069,000	\$0	\$0	\$0	\$1,069,000
Utility Services (54)	Specific	\$0	\$8,290,000	\$0	\$0	\$8,290,000
Utility Services (54) - Power & Chemicals	Specific	\$0	\$0	\$0	\$1,978,000	\$1,978,000
General Management (56)	Specific	\$0	\$1,008,000	\$0	\$0	\$1,008,000
Board of Directors (57)	Specific	\$134,000	\$0	\$0	\$0	\$134,000
Engineering/Technical Services (58)	Specific	\$0	\$0	\$1,223,000	\$0	\$1,223,000
Administrative Services (59)	Specific	\$1,551,000	\$0	\$0	\$0	\$1,551,000
Water Resources (60)	Specific	\$0	\$0	\$1,713,000	\$0	\$1,713,000
Total Allocation		\$2,754,000	\$9,298,000	\$2,936,000	\$1,978,000	\$16,966,000
O&M Allocation (%)		16.2%	54.8%	17.3%	11.7%	100.0%



The District's debt was allocated to Meter Capacity because the debt is used for capital improvements of the water system, and Meter Capacity is a fixed cost recovery component that reflects the demand each meter places on the water system. Table 23 identifies the percent allocation of the debt expense to the cost components, and Table 24 reflects the debt expense in dollars. Once any of the debts retire, the savings will go toward capital spending

Table 23: Water Debt Allocation to Cost Components (%)

Debt Service	Methodology / Allocation Basis	Account Services	Meter Capacity	Delivery	Peaking	Total
Series 2016 Water Revenue Bonds	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
Series 2019 Taxable Revenue Refunding Loan	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
Series 2021 Water Revenue COP	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
2022 Water CIP Loan	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
2020 VacCon Loan (VacCon Truck #1)	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
2020 VacCon Loan (VacCon Truck #2)	Specific	0.0%	100.0%	0.0%	0.0%	100.0%
SEWD (New Hogan)	Specific	0.0%	100.0%	0.0%	0.0%	100.0%

Table 24: Water Debt Allocation to Cost Components (\$)

Debt Service	Methodology / Allocation Basis	Account Services	Meter Capacity	Delivery	Peaking	Total
Series 2016 Water Revenue Bonds	Specific	\$0	\$101,144	\$0	\$0	\$101,144
Series 2019 Taxable Revenue Refunding Loan	Specific	\$0	\$322,031	\$0	\$0	\$322,031
Series 2021 Water Revenue COP	Specific	\$0	\$172,703	\$0	\$0	\$172,703
2022 Water CIP Loan	Specific	\$0	\$1,316,542	\$0	\$0	\$1,316,542
2020 VacCon Loan (VacCon Truck #1)	Specific	\$0	\$91,306	\$0	\$0	\$91,306
2020 VacCon Loan (VacCon Truck #2)	Specific	\$0	\$90,472	\$0	\$0	\$90,472
SEWD (New Hogan)	Specific	\$0	\$55,751	\$0	\$0	\$55,751
Total Allocation		\$0	\$2,149,949	\$0	\$0	\$2,149,949

Other Funding includes other operating and non-operating revenues, reserve funding, and mid-year adjustment when proposed rates are implemented after the start of the fiscal year. The mid-year adjustment annualizes the proposed revenue adjustment to account for the time elapsed before new rates take effect to connect to the annual units of service used for deriving rates. All items under "Other Funding" are allocated based on O&M percentages derived in Table 22 to allocate revenue offsets and reserve funding proportionately to the cost components. Table 25 summarizes the percent allocation to the cost components, and Table 26 uses the percent allocations in Table 25 to allocate expenses in dollars to each cost component. Table 27 summarizes the revenue requirement derived in Table 20 by cost component.

Table 25: Other Funding to Cost Components (%)

Other Funding	Methodology / Allocation Basis	Account Services	Meter Capacity	Delivery	Peaking	Total
Revenue Offsets						
Operating Revenues	O&M Allocation	16.2%	54.8%	17.3%	11.7%	100.0%
Other Revenues	O&M Allocation	16.2%	54.8%	17.3%	11.7%	100.0%
Adjustments						
Reserve Funding	O&M Allocation	16.2%	54.8%	17.3%	11.7%	100.0%
Adjustment for Mid-Year Increase	O&M Allocation	16.2%	54.8%	17.3%	11.7%	100.0%

Table 26: Other Funding Allocation to Cost Components (\$)

Other Funding	Methodology / Allocation Basis	Account Services	Meter Capacity	Delivery	Peaking	Total
Revenue Offsets						
Operating Revenues	O&M Allocation	(\$62,170)	(\$209,898)	(\$66,279)	(\$44,652)	(\$383,000)
Other Revenues	O&M Allocation	(\$702,703)	(\$2,372,453)	(\$749,142)	(\$504,701)	(\$4,329,000)
Adjustments						
Reserve Funding	O&M Allocation	(\$2,589)	(\$8,741)	(\$2,760)	(\$1,859)	(\$15,949)
Adjustment for Mid-Year Increase	O&M Allocation	\$72,364	\$244,315	\$77,147	\$51,974	\$445,800
Total Allocation		(\$695,098)	(\$2,346,777)	(\$741,034)	(\$499,239)	(\$4,282,149)

Table 27: FY 2024 Water Cost-of-Service Requirements by Cost Component

Revenue Requirement	Account Services	Meter Capacity	Delivery	Peaking	Total
Operating	\$2,754,000	\$9,298,000	\$2,936,000	\$1,978,000	\$16,966,000
Debt Service	\$0	\$2,149,949	\$0	\$0	\$2,149,949
Other Funding	(\$695,098)	(\$2,346,777)	(\$741,034)	(\$499,239)	(\$4,282,149)
COS Requirement	\$2,058,902	\$9,101,172	\$2,194,966	\$1,478,761	\$14,833,800



### Rate Design - Water Utility

### **Develop Units of Service**

Unit rates for each cost component are derived by spreading the corresponding revenue requirements over appropriate units of service (distribution basis). This approach provides a clear connection between costs incurred and the proportionate share attributable to each customer class, corresponding tier, and customer account. When designing rates, the most critical component is connecting costs to the proposed rates, resulting in a cost-based rate structure that complies with Proposition 218. The previous section summarized costs by expense category and then allocated to cost components based on how each cost is incurred. The next step in designing rates is to allocate each cost component to customers in relation to their use of the system and facilities. The method of apportionment considers each customer's share of system costs and is reflected by the units of service used to equitably distribute the cost components to each customer account. The distribution basis varies by cost component and includes total accounts, Meter Equivalents (MEs), which reflect demand placed on the system based on meter size, total water sales, and usage by tier.

In Table 28, each meter size was assigned an equivalency factor using the flow characteristics of a 5/8" meter. Based on the District's meter inventory, the safe maximum operating flow capacity for these meter types, as identified in the AWWA M1 Manual, 6<sup>th</sup> Edition, Table B-2, was used for determining meter equivalencies. The safe maximum operating flow capacity for each meter was divided by the 5/8" meters' safe operating flow capacity of 20 gpm to determine the equivalent meter ratio. In other words; the calculations convert all larger-sized meters to an equivalent number of 5/8" meters based on the safe operating flow capacity of 20 gpm. The Capacity Ratio represents the potential flow through each meter size compared to the flow through the base 5/8" meter to establish parity between meter sizes. Total MEs are determined by multiplying the number of meters by the Capacity Ratio and then multiplying the result by the billing periods in a year (6 billing periods)<sup>3</sup>. Table 28 summarizes the units of service related to Total Annual Bills and Annual MEs.

Table 28: Accounts and Meter Equivalents

Meter Size	AWWA Capacity (gpm)	Capacity Ratio	Number of Accounts	Meter Equivalents
	[A]	[B] = A ÷20	[C]	[D] = B x C
5/8"	20	1.00	13,231	13,231
3/4"	30	1.50	3	5
1"	50	2.50	79	198
1 1/2"	100	5.00	23	115
2"	160	8.00	21	168
3"	320	16.00	2	32
Total			13,359	13,748
Annual Units (T	otal x 6 bills)		80,154	82,488

<sup>&</sup>lt;sup>3</sup> The District bills customers on a bi-monthly basis; therefore, there are 6 billing periods during the fiscal year.



Total usage by customer class and tier must be known to derive the units of service for allocating variable costs. Table 29 provides the projected usage for FY 2024 from Table 8 and the peak bi-monthly usage by customer class.

Table 29: Projected Usage by Customer Class (HCF)

Customer Class / Tier	All Usage	Peak Bi- Monthly Usage
	(HCF)	(HCF)
Residential	1,364,727	328,781
Non-Residential	144,435	36,040
Irrigation	119,628	29,250
Total	1,628,790	394,072

Table 30 provides the projected usage for FY 2024 and the peak bi-monthly usage, broken out by customer class and proposed tiers for Residential.

Table 30: Projected Usage by Customer Class and Tier (HCF)

Customer Class & Tier	Tier Definitions (HCF)	Projected Usage (HCF)	Peak Bi-Monthly Usage (HCF)
Residential			
Tier 1	0 - 15	588,538	112,243
Tier 2	16 - 30	276,121	65,556
Tier 3	>30	500,068	150,982
Non-Residential	Uniform	144,435	36,040
Irrigation	Uniform	119,628	29,250
Total		1,628,790	394,072

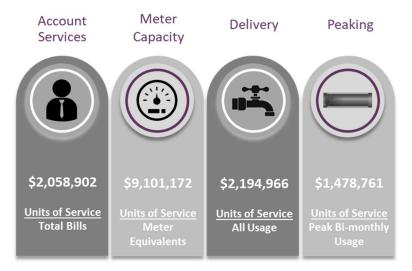
Table 30 identifies the tiered usage for Residential based on the revised tiered allotments. The Tier 1 allotment for the residential customer class is based on the lowest winter usage period, primarily comprised of indoor use, as outdoor watering needs are limited in the winter. Residential Tier 2 covers the maximum billing period usage per dwelling unit equal to 30 HCF, and Tier 3 captures all remaining usage over Tier 2.

The tiered usage characteristics will be used to further apportion the total variable costs allocated to the residential customer class to the corresponding tiers. Allocating variable costs to customer classes first, then to tiers, ensures each customer class is only recovering its proportionate share of costs. The proposed Non-Residential and Irrigation rate structure reflects a uniform rate that captures each customer class's proportional share of the revenue requirements over its corresponding usage. A uniform rate is recommended for Non-Residential to enhance equity between accounts within the customer class due to the broad spectrum of commercial uses that vary substantially with water needs that would not fit into one tiered rate structure applied to all. Irrigation is also structured as a uniform rate because the landscape areas would need to be known for structuring appropriate tiered rates.



With the units of service shown in Table 28 and Table 30, we can select the appropriate distribution basis for each cost component. Figure 12 identifies the total revenue requirements by cost component from Table 27 and the corresponding units of service.

Figure 12: Distribution Basis and Units of Service by Cost Component



Using the FY 2024 revenue requirements, the cost-of-service allocates expenses to customers based on the service demands that each places on the system (cost causation). This approach ensures that each customer proportionately shares in the financial obligation of the water utility. For the following unit rate computations for each cost component, unit rates were rounded up to the nearest penny.

### Fixed Cost Recovery

#### Account Services

Each customer incurs Account Services costs regardless of the type of land use, meter size, or total amount of water used. These costs should be spread equally across all accounts. This is achieved by using the distribution basis of Total Bills. Total Bills are determined by multiplying the total accounts by the number of billing periods over the fiscal year (6 billing periods). Therefore, the revenue requirement for Account Services is apportioned based on the Total Bills (Table 28) to determine the bi-monthly unit cost-of-service shown in Table 31.

Table 31: FY 2024 Account Services Bi-Monthly Unit Rate

#### Account Services Component Unit Rate

Revenue Requirement	\$2,058,902
÷ Total Bills	80,154
Bi-Monthly Unit Rate	\$25.69



#### Meter Capacity

The Meter Capacity Component includes operational costs, debt, and a portion of system-wide operations capital and reserve funding. The revenue requirement for Meter Capacity is apportioned based on meter size. Larger-sized meters can generate a greater demand on the system from the amount of potential water flow that may pass through the meter in gpm. The revenue requirement for Meter Capacity is apportioned to meter size as represented by total annual MEs, as shown in Table 32.

Table 32: FY 2024 Meter Capacity Bi-Monthly Unit Rate

#### Meter Capacity Component Unit Rate

Revenue Requirement	\$9,101,172
÷ Total ME's	82,488
Bi-Monthly Unit Rate	\$110.34

#### Variable Cost Recovery

The remaining cost components are recovered through the variable rates. The proposed variable rate structure includes tiers for Residential and a uniform rate for Non-Residential and Irrigation.

#### <u>Delivery</u>

Delivery costs are incurred based on the total volume of water produced and delivered to customers throughout the year. Therefore, the revenue requirement for Delivery is apportioned based on the projected total usage identified in Table 30 to determine the unit cost-of-service, irrespective of tier, as shown in Table 33.

Table 33: FY 2024 Delivery Cost Unit Rate per HCF

#### Delivery Component Unit Rate

Revenue Requirement	\$2,194,966
÷ All Usage	1,628,790
Unit Rate	\$1.35



#### Peaking

Peaking costs are incurred not only based on the total volume of water produced and delivered but also as a function of the peaking characteristics of tiers. Therefore, the revenue requirement for Peaking is first allocated to each customer class based on the peak bi-monthly usage in Table 29, and the results are shown in Table 34. Table 35 takes the Peaking cost allocated to Residential and further apportions the costs to the corresponding tiers using the peak bi-monthly usage in Table 30.

Table 34: FY 2024 Peaking Allocation to Customer Classes

Customer Class	Peak Bi- Monthly Usage	% Allocation	Revenue Requirement
Residential	328,781	83.4%	\$1,233,759
Non-Residential	36,040	9.1%	\$135,243
Irrigation	29,250	7.4%	\$109,760
Total	394,072	100.0%	\$1,478,761

Table 35: FY 2024 Peaking Unit Rate by Customer Class and Tier

Customer Class	Tier Allotments	Projected Usage	Peak Bi- Monthly Usage	% Allocation	Revenue Requirement	Unit Rate
	(HCF)	[A]	[B]	[C] = B as a %	[D] = Table 49 x C	[E] = D ÷ A
Residential						
Tier 1	0 - 15	588,538	112,243	34.1%	\$421,195	\$0.72
Tier 2	16 - 30	276,121	65,556	19.9%	\$246,002	\$0.90
Tier 3	>30	500,068	150,982	45.9%	\$566,562	\$1.14
		1,364,727	328,781	100%	\$1,233,759	
Non-Residential	9,999,999	144,435	36,040	100.0%	\$135,243	\$0.94
Irrigation	9,999,999	119,628	29,250	100.0%	\$109,760	\$0.92
Total		1,628,790	394,072		\$1,478,761	

### FY 2024 Cost-of-Service Rates - Water Utility

#### Proposed FY 2024 Bi-Monthly Fixed Charges

Table 36 reflects the combined charges of the District's proposed fixed charge of Account Services and Meter Capacity. Account Services are constant for all meter sizes. Meter Capacity is multiplied by the corresponding Capacity Ratios of each meter size to derive the FY 2024 fixed charges.

Table 36: FY 2024 Bi-Monthly Fixed Charges by Meter Size

Meter Size	Capacity Ratio	Meters	Account Services	Meter Capacity	FY 2024 Proposed Bi- Monthly Base
	[A]		[B] = \$25.69	[C] = \$110.34 x A	[D] = B + C
5/8"	1.00	13,231	\$25.69	\$110.34	\$136.03
3/4"	1.50	3	\$25.69	\$165.51	\$191.20
1"	2.50	79	\$25.69	\$275.85	\$301.54
1 1/2"	5.00	23	\$25.69	\$551.70	\$577.39
2"	8.00	21	\$25.69	\$882.72	\$908.41
3"	16.00	2	\$25.69	\$1,765.44	\$1,791.13
4"	25.00	0	\$25.69	\$2,758.50	\$2,784.19
6"	50.00	0	\$25.69	\$5,517.00	\$5,542.69
8"	80.00	0	\$25.69	\$8,827.20	\$8,852.89

#### Proposed FY 2024 Variable Rates

The proposed variable rates for FY 2024 are shown in Table 37 for each customer class and tier, reflecting the combined rate components of Delivery and Peaking.

Table 37: FY 2024 Variable Rates by Customer Class and Tier (HCF)

Customer Class & Tier	Tier Definitions (HCF)	Projected Usage (HCF)	Delivery [A]	Peaking [B]	FY 2024 Proposed Variable Rate [C] = A + B
Residential					
Tier 1	0 - 15	588,538	\$1.35	\$0.72	\$2.07
Tier 2	16 - 30	276,121	\$1.35	\$0.90	\$2.25
Tier 3	>30	500,068	\$1.35	\$1.14	\$2.49
Non-Residential	Uniform	144,435	\$1.35	\$0.94	\$2.29
Irrigation	Uniform	119,628	\$1.35	\$0.92	\$2.27

#### **Wastewater Utility**

#### Wastewater System

The District operates twelve wastewater treatment and disposal facilities and fourteen sewer collection systems. The wastewater collection system is comprised of 100 miles of gravity pipelines, 230 miles of force mains, and 45 lift stations.



Figure 13: Wastewater System

The District developed a detailed CIP through FY 2028 that continues a contribution to system reinvestment that outpaces the annual deprecation of capital assets and totals approximately \$35.8M over the next five years. The District plans on funding these capital projects through a combination of grants, capacity fee receipts, debt proceeds, and rates/reserves. Figure 14 shows the District's CIP through FY 2028 with existing funding sources.

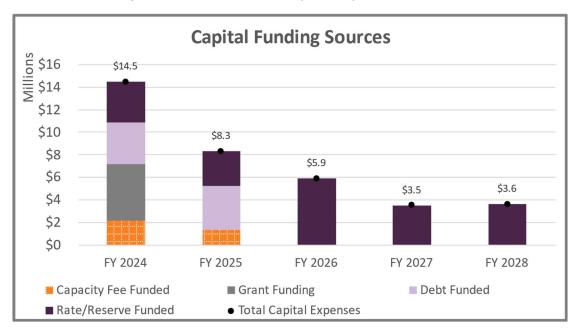


Figure 14: Wastewater Capital Improvement Plan

#### <u>Customers</u>

At the start of FY 2023, the District had 5,446 equivalent dwelling units (EDUs), which includes residential and non-residential customers.

The existing wastewater rate structure consists of a base bi-monthly fixed charge per EDU and an R&R fixed charge per EDU for capital spending The FY 2023 wastewater bi-monthly rates per EDU are identified in Table 38.

Table 38: Existing Wastewater Bi-Monthly Fixed Charges

Base Fixed Charges (\$/Bi-Month/EDU)					
Customer Class	Existing				
Residential	\$173.31				
Non-Residential	\$168.86				
R&R Fixed Charges	(\$/Bi-Month/EDU)				
R&R Fixed Charges Customer Class	(\$/Bi-Month/EDU) Existing				
The state of the s					



### **Financial Plan Overview - Wastewater Utility**

#### Financial Planning Assumptions

Developing a long-term financial plan requires understanding the utility's financial position by evaluating existing revenue streams, ongoing expenses, how those expenses will change over time, new strategic objectives, and reserve policies. These considerations require certain assumptions for projecting revenues, expenses, and expected ending fund balances. Table 39 identifies assumptions used for forecasting revenues, and Table 40 identifies assumptions used for forecasting increases in expenses through the Rate Setting Period.

Table 39: Wastewater Assumptions for Forecasting Revenues

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Escalation					_
Non-Inflated	0.0%	0.0%	0.0%	0.0%	0.0%
Non-Rate Revenues	0.0%	0.0%	0.0%	0.0%	0.0%
Reserve Interest	1.5%	1.5%	1.5%	1.5%	1.5%
Account Growth					
Residential	0.0%	0.0%	0.0%	0.0%	0.0%
Non-Residential	0.0%	0.0%	0.0%	0.0%	0.0%
Customer EDU's	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Residential	4,711	4,711	4,711	4,711	4,711
Non-Residential	735	735	735	735	735
Total Customer EDU's	5,446	5,446	5,446	5,446	5,446

Table 40: Wastewater Assumptions for Forecasting Expense Requirements4

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Expenditure Escalation					
Benefits	3.0%	3.0%	3.0%	3.0%	3.0%
Capital Construction	7.2%	3.9%	3.9%	3.9%	3.9%
Energy Costs	5.0%	5.0%	5.0%	5.0%	5.0%
General Costs	5.6%	3.5%	3.5%	3.5%	3.5%
Non-Inflated	0.0%	0.0%	0.0%	0.0%	0.0%
Retirement	5.0%	5.0%	5.0%	5.0%	5.0%
Salaries	5.0%	5.0%	5.0%	5.0%	5.0%
Treatment	5.0%	5.0%	5.0%	5.0%	5.0%

<sup>&</sup>lt;sup>4</sup> Capital Construction inflation and General Costs for FY 2024 were increased to 7.2% and 5.6%, respectively to account for recent annual increase due to inflation. Outer years reduce to 3.9% and 3.5%, reflecting the 5-year average of the Engineer's News Record – CCI index and the SF Consumer Price Index, respectively.



#### **Current Financial Position**

#### Revenues

Based on the forecasting assumptions, revenues were calculated using EDUs and existing wastewater rates (Table 38). Table 41 shows the calculated revenues for FY 2024 through the Rate Setting Period. Table 42 summarizes calculated rate revenues (rounded to thousands) and other non-rate revenues available through the Rate Setting Period.

Table 41: Wastewater Calculated Rate Revenues

Fixed Revenues	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
	F1 2024	F1 2023	F1 2020	FT 2021	F1 2020
Base Fixed Charge					
Residential	\$4,898,780	\$4,898,780	\$4,898,780	\$4,898,780	\$4,898,780
Non-Residential	\$744,673	\$744,673	\$744,673	\$744,673	\$744,673
Total Base Fixed Charge	\$5,643,453	\$5,643,453	\$5,643,453	\$5,643,453	\$5,643,453
R&R Fixed Charges					
Residential	\$1,054,887	\$1,054,887	\$1,054,887	\$1,054,887	\$1,054,887
Non-Residential	\$164,581	\$164,581	\$164,581	\$164,581	\$164,581
Total R&R Fixed Charges	\$1,219,468	\$1,219,468	\$1,219,468	\$1,219,468	\$1,219,468
Total Rate Revenue	\$6,862,921	\$6,862,921	\$6,862,921	\$6,862,921	\$6,862,921



Table 42: Wastewater Projected Revenues

Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues					_
Base Fixed Charge	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000
R&R Fixed Charges	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000
Subtotal Rate Revenues	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000
Operating Revenues					
Inspection Fees	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Account Establishment Fees	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Delinquent Account Charge	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Repair Labor/Materials	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000
Reimbursable Expense	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
Other Operating Revenue	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Subtotal Operating Revenues	\$134,000	\$134,000	\$134,000	\$134,000	\$134,000
Other Revenues					
Rental Revenue	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Interest Income/CCWD Investme	\$19,000	\$19,000	\$19,000	\$19,000	\$19,000
Property Taxes	\$756,000	\$756,000	\$756,000	\$756,000	\$756,000
Standby Fees	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Power Sales - North Fork	\$167,000	\$167,000	\$167,000	\$167,000	\$167,000
Power Sales - New Hogan	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Other Non-Operating Revenue	\$193,000	\$193,000	\$193,000	\$193,000	\$193,000
Subtotal Other Revenues	\$1,214,000	\$1,214,000	\$1,214,000	\$1,214,000	\$1,214,000
Total Revenues	\$8,210,000	\$8,210,000	\$8,210,000	\$8,210,000	\$8,210,000



#### **Expenses**

The FY 2023 budget was used as the utility's baseline expenses and adjusted over the Rate Setting Period based on the escalation factors shown in Table 40. Table 43 provides projected O&M expenses through the Rate Setting Period (rounded to thousands). Each expense category includes detailed line-item expenditures that were discussed with staff to determine the appropriate escalation factor to use for forecasting how costs will increase over time.

Table 43: Wastewater Projected O&M Expenses

O&M Expenses	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses					
Non-Departmental (50)	\$396,000	\$414,000	\$433,000	\$453,000	\$473,000
Utility Services (54)	\$3,895,000	\$3,932,000	\$4,105,000	\$4,306,000	\$4,496,000
General Management (56)	\$360,000	\$377,000	\$395,000	\$413,000	\$432,000
Board of Directors (57)	\$51,000	\$53,000	\$55,000	\$57,000	\$59,000
Engineering/Technical Services (58)	\$453,000	\$473,000	\$495,000	\$518,000	\$541,000
Administrative Services (59)	\$574,000	\$562,000	\$587,000	\$613,000	\$640,000
Water Resources (60)	\$424,000	\$441,000	\$459,000	\$478,000	\$498,000
Treatment	\$378,000	\$395,000	\$413,000	\$431,000	\$450,000
Subtotal Operating Expenses	\$6,153,000	\$6,252,000	\$6,529,000	\$6,838,000	\$7,139,000
Debt Service					
Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL)	\$158,612	\$154,909	\$151,206	\$147,173	\$143,151
2022 Sewer CIP Loan	\$753,168	\$752,920	\$753,256	\$753,144	\$753,584
2020 VacCon Loan (VacCon Truck #1)	\$33,771	\$8,443	\$0	\$0	\$0
2020 VacCon Loan (VacCon Truck #2)	\$33,462	\$33,465	\$16,731	\$0	\$0
SEWD (New Hogan)	\$20,620	\$20,621	\$0	\$0	\$0
New/Proposed Debt	\$0	\$0	\$0	\$0	\$0
Subtotal Debt Service	\$999,634	\$970,357	\$921,193	\$900,317	\$896,735
Total Expenses	\$7,530,634	\$7,617,357	\$7,863,193	\$8,169,317	\$8,485,735



#### Reserves

The wastewater utility reserves include Operating, Capital, Rate Stabilization, and Emergency. Similar to the water utility, these reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations and to fund annual system improvements, including unforeseen system failures. Table 44 summarizes the minimum reserve requirements and the ideal funding targets of each reserve.

Table 44: Wastewater Reserve Requirements and Targets

Reserve	Minimum Requirement	Reserve Target
Operating	90 days of operating expenses	120 days of operating expenses
Capital	1 Year of Depreciation average	2 years of CIP costs based on 5-year average
Rate Stabilization	10% of Operating Revenues	N/A
Emergency	3% of System Assets	5% of System Assets

The reserve balance as of July 1, 2022, equaled approximately \$4.7M.

#### Financial Outlook at Existing Rates

Calculating revenue using existing rates and projecting expenses helps determine the current financial health of the utility. Revenues from current rates will not cover operating expenses through the Rate Setting Period. Net operating income is limited and reduces annually as projected expenses increase and can only fund a limited amount of capital needs. Therefore, reserves would need to cover the remaining capital costs, which would not be sustainable long-term, as reserves would be depleted in FY 2025 due to the \$14.45M in capital costs. Table 46 forecasts existing revenues and expenses through the Rate Setting Period. Table 46 identifies reserve transfers and reserves activity, with projected FY 2024 starting reserve balances shown for each reserve.



Table 45: Wastewater Financial Plan at Existing Rates

Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues						
Base Fixed Charge	Table 41	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000
R&R Fixed Charges	Table 41	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000
Total Rate Revenues		\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000
Projected Rate Revenues		\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000
Operating Revenues						
Inspection Fees		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Account Establishment Fees		\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Delinquent Account Charge	Table 42	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Repair Labor/Materials	Table 42	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000
Reimbursable Expense		\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
Other Operating Revenue		\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Subtotal Operating Revenues		\$134,000	\$134,000	\$134,000	\$134,000	\$134,000
Other Revenues						
Rental Revenue		\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Interest Income/CCWD Investments		\$19,000	\$19,000	\$19,000	\$19,000	\$19,000
Property Taxes		\$756,000	\$756,000	\$756,000	\$756,000	\$756,000
Standby Fees	Table 42	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Power Sales - North Fork		\$167,000	\$167,000	\$167,000	\$167,000	\$167,000
Power Sales - New Hogan		\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Other Non-Operating Revenue		\$193,000	\$193,000	\$193,000	\$193,000	\$193,000
Subtotal Other Revenues		\$1,214,000	\$1,214,000	\$1,214,000	\$1,214,000	\$1,214,000
Total Revenues		\$8,210,000	\$8,210,000	\$8,210,000	\$8,210,000	\$8,210,000
0&M Expenses		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses		11 2021	1 1 2023	1 1 2020	112027	1 1 2020
Non-Departmental (50)		\$396,000	\$414,000	\$433,000	\$453,000	\$473,000
Utility Services (54)		\$3,895,000	\$3,932,000	\$4,105,000	\$4,306,000	\$4,496,000
General Management (56)		\$3,893,000			34,300,000	34,430,000
Board of Directors (57)			\$277 AAA	¢305 000	\$413,000	\$432,000
			\$377,000	\$395,000	\$413,000	
• ,	Table 43	\$51,000	\$53,000	\$55,000	\$57,000	\$59,000
Engineering/Technical Services (58)	Table 43	\$51,000 \$453,000	\$53,000 \$473,000	\$55,000 \$495,000	\$57,000 \$518,000	\$59,000 \$541,000
Engineering/Technical Services (58) Administrative Services (59)	Table 43	\$51,000 \$453,000 \$574,000	\$53,000 \$473,000 \$562,000	\$55,000 \$495,000 \$587,000	\$57,000 \$518,000 \$613,000	\$59,000 \$541,000 \$640,000
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60)	Table 43	\$51,000 \$453,000 \$574,000 \$424,000	\$53,000 \$473,000 \$562,000 \$441,000	\$55,000 \$495,000 \$587,000 \$459,000	\$57,000 \$518,000 \$613,000 \$478,000	\$59,000 \$541,000 \$640,000 \$498,000
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment	Table 43	\$51,000 \$453,000 \$574,000 \$424,000 \$378,000	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses	Table 43	\$51,000 \$453,000 \$574,000 \$424,000	\$53,000 \$473,000 \$562,000 \$441,000	\$55,000 \$495,000 \$587,000 \$459,000	\$57,000 \$518,000 \$613,000 \$478,000	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses Debt Service	Table 43	\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000 \$7,139,000
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL)	Table 43	\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000 \$7,139,000
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses  Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan	Table 43	\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000 \$7,139,000 \$143,151 \$753,584
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses  Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan 2020 VacCon Loan (VacCon Truck #1)	Table 43	\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168 \$33,771	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920 \$8,443	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256 \$0	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144 \$0	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000 \$7,139,000 \$143,151 \$753,584 \$0
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses  Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2)		\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168 \$33,771 \$33,462	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920 \$8,443 \$33,465	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256 \$0 \$16,731	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144 \$0 \$0	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000 \$7,139,000 \$143,151 \$753,584 \$0
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses  Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan)		\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168 \$33,771 \$33,462 \$20,620	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920 \$8,443 \$33,465 \$20,621	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256 \$0 \$16,731 \$0	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144 \$0 \$0 \$0	\$59,000 \$541,000 \$640,000 \$498,000 \$450,000 \$7,139,000 \$143,151 \$753,584 \$0 \$0
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses  Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan) New/Proposed Debt		\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168 \$33,771 \$33,462 \$20,620 \$0	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920 \$8,443 \$33,465 \$20,621 \$0	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256 \$0 \$16,731 \$0 \$0	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144 \$0 \$0 \$0 \$0 \$0	\$59,000 \$541,000 \$640,000 \$498,000 \$7,139,000 \$143,151 \$753,584 \$0 \$0 \$0
Engineering/Technical Services (58)  Administrative Services (59)  Water Resources (60)  Treatment  Subtotal Operating Expenses  Debt Service  Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2)  SEWD (New Hogan)  New/Proposed Debt  Subtotal Debt Service		\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168 \$33,771 \$33,462 \$20,620	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920 \$8,443 \$33,465 \$20,621	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256 \$0 \$16,731 \$0	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144 \$0 \$0 \$0	\$450,000 \$7,139,000 \$143,151 \$753,584 \$0 \$0 \$0
Engineering/Technical Services (58) Administrative Services (59) Water Resources (60) Treatment Subtotal Operating Expenses  Debt Service Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL) 2022 Sewer CIP Loan 2020 VacCon Loan (VacCon Truck #1) 2020 VacCon Loan (VacCon Truck #2) SEWD (New Hogan) New/Proposed Debt		\$51,000 \$453,000 \$574,000 \$424,000 \$378,000 \$6,153,000 \$158,612 \$753,168 \$33,771 \$33,462 \$20,620 \$0	\$53,000 \$473,000 \$562,000 \$441,000 \$395,000 \$6,252,000 \$154,909 \$752,920 \$8,443 \$33,465 \$20,621 \$0	\$55,000 \$495,000 \$587,000 \$459,000 \$413,000 \$6,529,000 \$151,206 \$753,256 \$0 \$16,731 \$0 \$0	\$57,000 \$518,000 \$613,000 \$478,000 \$431,000 \$6,838,000 \$147,173 \$753,144 \$0 \$0 \$0 \$0 \$0	\$59,000 \$541,000 \$640,000 \$498,000 \$7,139,000 \$143,151 \$753,584 \$0 \$0 \$0



Table 46: Wastewater – Transfers and Reserve Activity at Existing Rates

Operating Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(\$2,380,674)	(\$1,701,307)	(\$1,108,665)	(\$761,858)	(\$721,175)
Transfers (Net Cashflow )	\$679,366	\$592,643	\$346,807	\$40,683	(\$275,735)
Ending Balance	(\$1,701,307)	(\$1,108,665)	(\$761,858)	(\$721,175)	(\$996,910)
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$6,355,846	\$2,872,490	(\$203,434)	(\$6,104,760)	(\$9,641,285)
Plus:					
New Debt Proceeds	\$0	\$0	\$0	\$0	\$0
Sources & Uses					
Wastewater CIP Loan Proceeds	\$3,715,566	\$3,875,000	\$0	\$0	\$0
Grant Funding	\$5,000,000	\$0	\$0	\$0	\$0
Capacity Fee Revenue	\$2,185,238	\$1,360,723	\$0	\$0	\$0
<u>Less:</u>					
CIP	(\$14,452,857)	(\$8,311,647)	(\$5,901,326)	(\$3,536,525)	(\$3,617,289)
New/Proposed Debt	\$0	\$0	\$0	\$0	\$0
Subtotal Capital Reserve	\$2,803,793	(\$203,434)	(\$6,104,760)	(\$9,641,285)	(\$13,258,573)
Interest Earnings	\$68,697	\$0	\$0	\$0	\$0
Ending Balance	\$2,872,490	(\$203,434)	(\$6,104,760)	(\$9,641,285)	(\$13,258,573)
Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500
Direct transfers to/(from) Rate Stabilization Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500
Emergency Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000
Direct transfers to/(from) Emergency Reserve	\$0	\$0	\$0	\$0	\$0_
Ending Balance	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000
Ending Unrestricted Reserve Balance	\$2,443,683	(\$39,599)	(\$5,594,118)	(\$9,089,959)	(\$12,982,983)

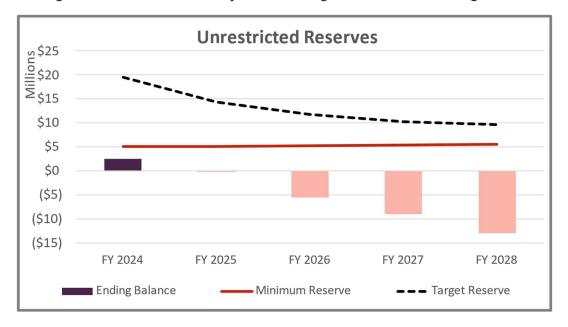
Figure 15 illustrates the operating position of the utility, where O&M expenses are identified with the dashed red trendline, and the horizontal black trendline shows total revenues at existing rates. The bars represent the amount of net operating income available. Figure 16 reflects the projected ending balances of unrestricted reserves after funding operating and capital projects through the Rate Setting Period. Unrestricted reserves include the Operating, Capital, Rate Stabilization, and Emergency reserves.



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Figure 15: Wastewater Current Operating Financial Position

Figure 16: Wastewater Projected Ending Reserves at Existing Rates



#### **Proposed Financial Plan – Wastewater Utility**

From the financial outlook at existing rates, a proposed financial plan can be developed to adequately fund the multi-year revenue requirements, while meeting reserve requirements. The proposed financial plan generates approximately \$15.9M in additional revenue over the Rate Setting Period. The additional revenue generates positive net operating income each year to go towards capital spending and satisfy reserve requirements. Table 47 forecasts projected revenues, *with annual revenue adjustments*, and expenses through FY 2028, including \$6M in proposed debt. Table 48 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 47, transfers between reserves, and annual CIP), and projected ending balances for each fiscal year of the Rate Setting Period.



Table 47: Proposed Wastewater Financial Plan

Revenue			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues							
Base Fixed Charge			\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000
R&R Fixed Charges		Table 41	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000
Total Rate Revenues			\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000
Additional Revenue (from revenue adjustments):							
Figure I Wash	Revenue	Effective					
Fiscal Year	Adjustment	Month					
FY 2024	14.0% 14.0%	October	\$800,000	\$960,000	\$960,000	\$960,000	\$960,000
FY 2025 FY 2026	14.0%	July July		\$1,095,000	\$1,095,000 \$1,248,000	\$1,095,000 \$1,248,000	\$1,095,000 \$1,248,000
FY 2027	14.0%	July			\$1,240,000	\$1,423,000	\$1,423,000
FY 2028	3.0%	July				+-,,	\$347,000
Total Additional Revenue			\$800,000	\$2,055,000	\$3,303,000	\$4,726,000	\$5,073,000
Projected Rate Revenues (including revenue adjustments	)		\$7,662,000	\$8,917,000	\$10,165,000	\$11,588,000	\$11,935,000
Operating Revenues							
Inspection Fees			\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Account Establishment Fees			\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Delinquent Account Charge		T-1-1- 40	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Repair Labor/Materials		Table 42	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000
Reimbursable Expense			\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
Other Operating Revenue			\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Subtotal Operating Revenues			\$134,000	\$134,000	\$134,000	\$134,000	\$134,000
Other Revenues							
Rental Revenue			\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Interest Income/CCWD Investments			\$19,000	\$19,000	\$22,000	\$44,000	\$51,000
Property Taxes			\$756,000	\$756,000	\$756,000	\$756,000	\$756,000
Standby Fees		Table 42	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Power Sales - North Fork			\$167,000	\$167,000	\$167,000	\$167,000	\$167,000
Power Sales - New Hogan			\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Other Non-Operating Revenue			\$193,000	\$193,000	\$193,000	\$193,000	\$193,000
Subtotal Other Revenues			\$1,214,000	\$1,214,000	\$1,217,000	\$1,239,000	\$1,246,000
Total Revenues			\$9,010,000	\$10,265,000	\$11,516,000	\$12,961,000	\$13,315,000
O&M Expenses			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Operating Expenses							
Non-Departmental (50)			\$396,000	\$414,000	\$433,000	\$453,000	\$473,000
Utility Services (54)			\$3,895,000	\$3,932,000	\$4,105,000	\$4,306,000	\$4,496,000
General Management (56)			\$360,000	\$377,000	\$395,000	\$413,000	\$432,000
Board of Directors (57)		Table 43	\$51,000	\$53,000	\$55,000	\$57,000	\$59,000
Engineering/Technical Services (58)		Table 45	\$453,000	\$473,000	\$495,000	\$518,000	\$541,000
Administrative Services (59)			\$574,000	\$562,000	\$587,000	\$613,000	\$640,000
Water Resources (60)			\$424,000	\$441,000	\$459,000	\$478,000	\$498,000
Treatment			\$378,000	\$395,000	\$413,000	\$431,000	\$450,000
Subtotal Operating Expenses			\$6,153,000	\$6,252,000	\$6,529,000	\$6,838,000	\$7,139,000
Debt Service							
Series 2019 Taxable Revenue Refunding Loan (Un	npqua UAL)		\$158,612	\$154,909	\$151,206	\$147,173	\$143,151
2022 Sewer CIP Loan			\$753,168	\$752,920	\$753,256	\$753,144	\$753,584
2020 VacCon Loan (VacCon Truck #1)		Table 43	\$33,771	\$8,443	\$0	\$0	\$0
2020 VacCon Loan (VacCon Truck #2)			\$33,462	\$33,465	\$16,731	\$0	\$0
SEWD (New Hogan)			\$20,620	\$20,621	\$0	\$0	\$0
New/Proposed Debt			\$0	\$501,694	\$501,694	\$501,694	\$501,694
Subtotal Debt Service			\$999,634	\$1,472,051	\$1,422,887	\$1,402,011	\$1,398,429
Total Expenses			\$7,530,634	\$8,119,051	\$8,364,887	\$8,671,011	\$8,987,429
Net Cashflow			\$1,479,366	\$2,145,949	\$3,151,113	\$4,289,989	\$4,327,571



Table 48: Wastewater – Unrestricted Reserves Activity through FY 2028

On anothing Francis	EV 2024	EV 2025	EV 2026	EV 2027	EV 2020
Operating Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	(\$2,380,674)	(\$901,307)	\$1,244,641	\$2,062,575	\$2,138,057
Transfers (Net Cashflow )	\$1,479,366	\$2,145,949	\$3,151,113	\$4,289,989	\$4,327,571
Sources & Uses					
Transfers from/(to) Capital Reserve	\$0	\$0	(\$2,333,180)	(\$4,214,507)	(\$4,249,551)
Ending Balance	(\$901,307)	\$1,244,641	\$2,062,575	\$2,138,057	\$2,216,078
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$6,355,846	\$2,872,490	\$5,861,584	\$2,354,600	\$3,072,986
<u>Plus:</u>					
Transfers from/(to) Operating Fund	\$0	\$0	\$2,333,180	\$4,214,507	\$4,249,551
New Debt Proceeds	\$0	\$6,000,000	\$0	\$0	\$0
Sources & Uses					
Wastewater CIP Loan Proceeds	\$3,715,566	\$3,875,000	\$0	\$0	\$0
Grant Funding	\$5,000,000	\$0	\$0	\$0	\$0
Capacity Fee Revenue	\$2,185,238	\$1,360,723	\$0	\$0	\$0
<u>Less:</u>					
CIP	(\$14,452,857)	(\$8,311,647)	(\$5,901,326)	(\$3,536,525)	(\$3,617,289)
Subtotal Capital Reserve	\$2,803,793	\$5,796,566	\$2,293,437	\$3,032,582	\$3,705,248
Interest Earnings	\$68,697	\$65,018	\$61,163	\$40,404	\$50,837
Ending Balance	\$2,872,490	\$5,861,584	\$2,354,600	\$3,072,986	\$3,756,084
Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500
Direct transfers to/(from) Rate Stabilization Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500
Emergency Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000
Direct transfers to/(from) Emergency Reserve	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000
Ending Unrestricted Reserve Balance	\$3,243,683	\$8,378,725	\$5,689,675	\$6,483,544	\$7,244,663



The operating position based on the proposed financial plan is identified in Figure 17, including debt service coverage. Figure 18 shows the capital plan with funding sources. Figure 19 identifies the ending unrestricted reserve balances after funding capital expenses.

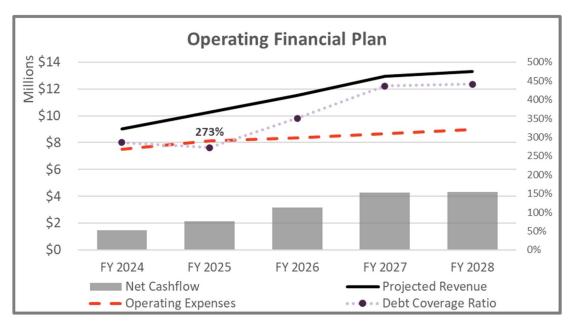
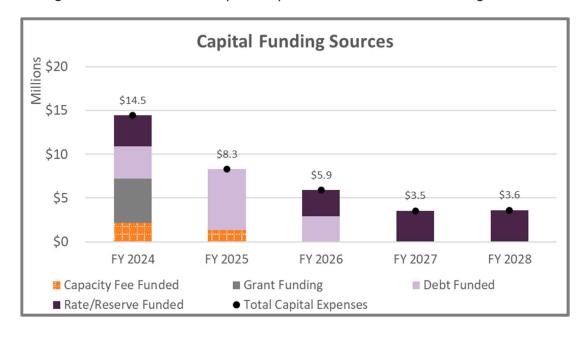


Figure 17: Wastewater Proposed Operating Position





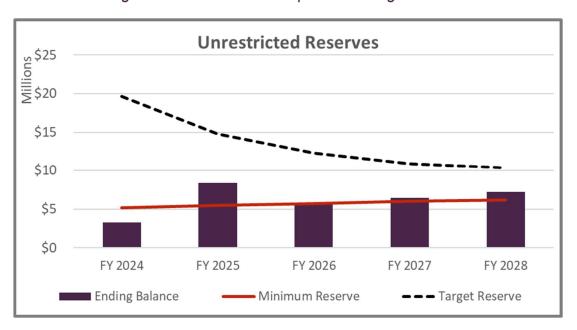


Figure 19: Wastewater Proposed Ending Reserves



### **Cost of Service Analysis – Wastewater Utility**

#### Revenue Requirements

Revenue requirements are determined for FY 2024 through FY 2028 and used for the cost-of-service. Revenue requirements include O&M expenses, available offsets from non-rate revenues, and annual net income for capital spending and reserve funding. The proposed revenue adjustments correspond to the proposed financial plan and set corresponding rates over the Rate Setting Period. The results of the financial plan analysis are summarized in Table 49 and represent the revenue required from rates over the Rate Setting Period.

Table 49: Wastewater Revenue Requirements

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Requirements	Total	Total	Total	Total	Total
Operating Expenses					
Non-Departmental (50)	\$396,000	\$414,000	\$433,000	\$453,000	\$473,000
Utility Services (54)	\$3,895,000	\$3,932,000	\$4,105,000	\$4,306,000	\$4,496,000
General Management (56)	\$360,000	\$377,000	\$395,000	\$413,000	\$432,000
Board of Directors (57)	\$51,000	\$53,000	\$55,000	\$57,000	\$59,000
Engineering/Technical Services (58)	\$453,000	\$473,000	\$495,000	\$518,000	\$541,000
Administrative Services (59)	\$574,000	\$562,000	\$587,000	\$613,000	\$640,000
Water Resources (60)	\$424,000	\$441,000	\$459,000	\$478,000	\$498,000
Treatment	\$378,000	\$395,000	\$413,000	\$431,000	\$450,000
Total Operating Expenses	\$6,531,000	\$6,647,000	\$6,942,000	\$7,269,000	\$7,589,000
Debt Service					
Series 2019 Taxable Revenue Refunding Loan (Umpqua UAL)	\$158,612	\$154,909	\$151,206	\$147,173	\$143,151
2022 Sewer CIP Loan	\$753,168	\$752,920	\$753,256	\$753,144	\$753,584
2020 VacCon Loan (VacCon Truck #1)	\$33,771	\$8,443	\$0	\$0	\$0
2020 VacCon Loan (VacCon Truck #2)	\$33,462	\$33,465	\$16,731	\$0	\$0
SEWD (New Hogan)	\$20,620	\$20,621	\$0	\$0	\$0
New/Proposed Debt	\$0	\$501,694	\$501,694	\$501,694	\$501,694
Total Debt Service	\$999,634	\$1,472,051	\$1,422,887	\$1,402,011	\$1,398,429
Other Funding					
Revenue Offsets					
Operating Revenues	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)
Other Revenues	(\$1,214,000)	(\$1,214,000)	(\$1,217,000)	(\$1,239,000)	(\$1,246,000)
Subtotal Revenue Offsets	(\$1,348,000)	(\$1,348,000)	(\$1,351,000)	(\$1,373,000)	(\$1,380,000)
Adjustments					
Reserve Funding	\$1,479,366	\$2,145,949	\$3,151,113	\$4,289,989	\$4,327,571
Adjustment for Mid-Year Increase	\$160,000	\$0	\$0	\$0	\$0
Subtotal Adjustments	\$1,639,366	\$2,145,949	\$3,151,113	\$4,289,989	\$4,327,571
Revenue Requirement from Rates	\$7,822,000	\$8,917,000	\$10,165,000	\$11,588,000	\$11,935,000

### Rate Design - Wastewater Utility

#### <u>Units of Service and Proposed Rates</u>

Unit rates per EDU are derived by spreading the revenue requirements over total annual EDUs. This approach provides a clear connection between the costs incurred and the total customer demands served in EDUs, resulting in a cost-based rate structure in compliance with Proposition 218. The method of apportionment considers each customer's share of system costs and is reflected by the EDUs assigned to each account. Commercial accounts will be charged the same unit rate per EDU.

Table 50: Proposed Wastewater Bi-Monthly Fixed Charge per EDU (FY 2024 – FY 2028)

Proposed Charge	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Requirement	\$7,822,000	\$8,917,000	\$10,165,000	\$11,588,000	\$11,935,000
÷ Annual EDU's	32,676	32,676	32,676	32,676	32,676
Unit Rate (\$/EDU/Month)	\$239.39	\$272.90	\$311.09	\$354.64	\$365.26



#### Cost-Based Rates - Water and Wastewater

#### Cost-of-Service and Rate Summary

The comprehensive cost-of-service analysis and rate development meet the requirements of Proposition 218 and identify the cost components that make up the proposed water and wastewater rates. Proposition 218 requires the following conditions:

- 1. An agency cannot collect revenue beyond what is necessary to provide service.

  The long-term financial plans identify the District's revenue requirements for each utility, including operating expenses, capital improvement programs, debt, and reserves.
- 2. Revenues derived by the charge shall not be used for any other purpose other than that for which the charge was imposed.
  - The District's water and wastewater utilities are analyzed as separate business enterprises to track revenues and expenses and do not fund services other than those necessary for the provision of water and wastewater, respectively.
- 3. The amount of the fee may not exceed the proportional cost-of-service for the parcel.

  The comprehensive cost-of-service analysis updated fixed charges, and variable rates reflect each customer's fair share of water and wastewater costs, respectively. Through this updated analysis, each customer will pay the proportional cost of providing service to that parcel.
- 4. No charge may be imposed for a service unless that service is actually used or immediately available to the owner of a property.
  - Only properties that are actually receiving utility service or have service immediately available to them are required to pay the fixed and variable charges described in this study.
- 5. A written notice of the proposed charge shall be mailed to the record owner of each parcel at least 45 days prior to the public hearing.
  - Notices were mailed to each affected parcel owner at least 45 days prior to the September 13, 2023, Public Hearing.

The proposed water and wastewater 5-year rate schedules (FY 2024 through FY 2028) are shown in the following section. If a majority protest does not occur by or at the September 13th Public Hearing, the District Board may adopt the rates with an effective date of October 1, 2023, or soon thereafter.



#### Rate Schedules - Water and Wastewater

#### Water

Table 51 through Table 52 provide the five-year water rate schedule over the Rate Setting Period for Bi-Monthly fixed charges and variable rates, respectively. For FY 2025 through FY 2028, the revenue adjustments are applied across the board to the cost-of-service rates derived for FY 2024 as account growth and usage characteristics are projected to remain constant for financial planning.

Table 51: Proposed Water Bi-Monthly Fixed Charge (FY 2024 – FY 2028)

Total Fixed Mete	r Charges	(\$/Bi-Mor	ıth)		
Revenue Adjustment:		18.0%	16.0%	16.0%	15.0%
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$136.03	\$160.52	\$186.21	\$216.01	\$248.42
3/4"	\$191.20	\$225.62	\$261.72	\$303.60	\$349.14
1"	\$301.54	\$355.82	\$412.76	\$478.81	\$550.64
1 1/2"	\$577.39	\$681.33	\$790.35	\$916.81	\$1,054.34
2"	\$908.41	\$1,071.93	\$1,243.44	\$1,442.40	\$1,658.76
3"	\$1,791.13	\$2,113.54	\$2,451.71	\$2,843.99	\$3,270.59
4"	\$2,784.19	\$3,285.35	\$3,811.01	\$4,420.78	\$5,083.90
6"	\$5,542.69	\$6,540.38	\$7,586.85	\$8,800.75	\$10,120.87
8"	\$8,852.89	\$10,446.42	\$12,117.85	\$14,056.71	\$16,165.22

Table 52: Proposed Water Variable Charge (FY 2024 – FY 2028)

Variable Rates (\$/HCF)										
Revenue Adjustment:		18.0%	16.0%	16.0%	15.0%					
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028					
Residential										
Tier 1	\$2.07	\$2.45	\$2.85	\$3.31	\$3.81					
Tier 2	\$2.25	\$2.66	\$3.09	\$3.59	\$4.13					
Tier 3	\$2.49	\$2.94	\$3.42	\$3.97	\$4.57					
Non-Residential	\$2.29	\$2.71	\$3.15	\$3.66	\$4.21					
Irrigation	\$2.27	\$2.68	\$3.11	\$3.61	\$4.16					

#### **Wastewater**

Table 53 provides the five-year wastewater rate schedule over the Rate Setting Period for bi-monthly fixed charges.

Table 53: Proposed Wastewater Bi-Monthly Fixed Charge (FY 2024 – FY 2028)

Total Fixed Charges (\$/Bi-Month/EDU)										
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028					
Residential	\$239.39	\$272.90	\$311.09	\$354.64	\$365.26					
Non-Residential	\$239.39	\$272.90	\$311.09	\$354.64	\$365.26					



## Appendix A - Board Approved Motion for Water Rates

Leading up to the Public Hearing, the District held three community workshops during the week of August 14<sup>th</sup> – August 18<sup>th</sup> to inform District customers of the proposed rate adjustments for water and wastewater. Based on the feedback from the community workshops, the District Board directed staff to review the CIP of each utility and identify any projects that may be deferred and rescheduled outside of the Rate Setting Period. Staff identified *three* projects in water and this *Appendix A* describes the adjustments to the water financial plan and corresponding rates.

#### Water Deferred Projects

- Wallace Tank Project: \$1.5M rescheduled to FY 2029
- ➤ Big Trees Pump Stations 4&5 Replacement: \$2.1M rescheduled to FY 2029
- > Jenny Lind Tanks A, B, E & F Rehabilitation: \$1.5M rescheduled to FY 2029

With this revision, a revised water financial plan over the Rate Setting Period was presented to the Board, at the Public Hearing, reflecting reduced revenue adjustments as follows:

- Recommended = 22%, 18%, 16%, 16%, 15%
- Deferred CIP Revisions: 22%, 12%, 13%, 13%, 13%

#### <u>District Board Approved Motion for Water</u>

At the close of the Public Hearing, a majority protest did not exist against the proposed water rate adjustments. As part of the Board deliberations, a final motion was approved by a 3-2 vote that did not reflect either of the proposed financial plan options listed above. The Board approved lower revenue adjustments as follows:

➤ Board's Approved Motion for the Water Utility (FY 2024: FY 2028) = 22%, 12%, 13%, 7%, 7%

Based on the final approved motion, the financial plan and corresponding water rates have been revised. The following sections provide an updated financial plan through FY 2029 to capture the capital projects that were deferred. The FY 2024 revenue adjustment did not change and the original cost-of-service analysis and unit rate components for FY 2024 remains intact. Therefore, only FY 2025 through FY 2028 rates changed based on the revised revenue adjustments.

#### Water Revised Financial Plan

With the three deferred capital projects and revised revenue adjustments adopted by the Board, the proposed financial plan generates approximately \$30.5M in additional revenue over the Rate Setting Period (\$11.5M reduction). The revised financial plan does not meet the District's minimum reserve requirements in FY 2028 and may jeopardize the proposed \$16.5M debt issue in FY 2026<sup>5</sup>. Table 54 forecasts projected revenues, with the revised annual revenue adjustments and expenses through FY 2029 to capture the deferred capital. FY 2029 does not include a revenue adjustment as it is outside the Rate Setting Period. Table 55 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 54, transfers between reserves, use of capacity fees, and annual CIP), and projected ending balances for each fiscal year through FY 2029.

<sup>&</sup>lt;sup>5</sup> The proposed debt issue was pushed back by a year from FY 2025 to FY 2026 as part of the revised financial plan.



Table 54: Revised Water Financial Plan (FY 2024 – FY 2029)

Revenue			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rate Revenues			112021	11 2023	112020	112027	112020	112023
Base Fixed Charg	je		\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000	\$7,077,000
R&R Fixed Charge			\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000	\$2,851,000
Variable Revenue	es		\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000	\$2,231,000
Total Rate Revenue	es		\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000	\$12,159,000
Fiscal Year	Revenue Adjustment	Effective Month						
FY 2024	22.0%	October	\$2,229,000	\$2,674,000	\$2,674,000	\$2,674,000	\$2,674,000	\$2,674,000
FY 2025	12.0%	July		\$1,779,000	\$1,779,000	\$1,779,000	\$1,779,000	\$1,779,000
FY 2026	13.0%	July			\$2,159,000	\$2,159,000	\$2,159,000	\$2,159,000
FY 2027	7.0%	July				\$1,313,000	\$1,313,000	\$1,313,000
FY 2028	7.0%	July					\$1,405,000	\$1,405,000
FY 2029	0.0%	July						\$0
Total Additional Re	venue		\$2,229,000	\$4,453,000	\$6,612,000	\$7,925,000	\$9,330,000	\$9,330,000
Projected Rate Rev	venues		\$14,388,000	\$16,612,000	\$18,771,000	\$20,084,000	\$21,489,000	\$21,489,000
Operating Revenu					4	4		
Water Sales - Fire	•		\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000
Account Establish			\$47,000	\$47,000	\$47,000	\$47,000	\$47,000	\$47,000
Delinquent Accou	-		\$55,000	\$55,000	\$55,000	\$55,000 \$4,000	\$55,000	\$55,000 \$4,000
Backflow Certific Install Water Me	-		\$4,000 \$30,000	\$4,000 \$30,000	\$4,000 \$30,000	\$30,000	\$4,000 \$30,000	\$4,000
Repair Labor/Mat			\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000
Reimbursable Exp			\$33,000	\$33,000	\$33,000	\$33,000	\$33,000	\$33,000
Other Operating			\$26,000	\$26,000	\$26,000	\$26,000	\$26,000	\$26,000
Subtotal Operating			\$383,000	\$383,000	\$383,000	\$383,000	\$383,000	\$383,000
Other Revenues								
Rental Revenue			\$61,000	\$61,000	\$61,000	\$61,000	\$61,000	\$61,000
Interest Income/	CCWD Investme	ents	\$103,000	\$67,000	\$79,000	\$105,000	\$123,000	\$128,000
Property Taxes			\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000	\$3,036,000
Standby Fees			\$96,000	\$96,000	\$96,000	\$96,000	\$96,000	\$96,000
Power Sales - No			\$453,000	\$453,000	\$453,000	\$453,000	\$453,000	\$453,000
Power Sales - Ne	-		\$58,000	\$58,000	\$58,000	\$58,000	\$58,000	\$58,000
Other Non-Opera			\$522,000	\$522,000	\$522,000	\$522,000	\$522,000	\$522,000
Subtotal Other Rev	renues		\$4,329,000 <b>\$19,100,000</b>	\$4,293,000 <b>\$21,288,000</b>	\$4,305,000 <b>\$23,459,000</b>	\$4,331,000 <b>\$24,798,000</b>	\$4,349,000 <b>\$26,221,000</b>	\$4,354,000 <b>\$26,226,000</b>
Total Revenues	-							
O&M Expenses Operating Expense			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Non-Department			\$1,069,000	\$1,118,000	\$1,169,000	\$1,223,000	\$1,279,000	\$1,338,000
Utility Services (5	54)		\$8,290,000	\$8,624,000	\$8,999,000	\$9,443,000	\$9,855,000	\$10,286,000
Utility Services (5	54) - Power & Ch	emicals	\$1,978,000	\$2,077,000	\$2,180,000	\$2,289,000	\$2,404,000	\$2,524,000
General Manager	ment (56)		\$1,008,000	\$1,055,000	\$1,103,000	\$1,155,000	\$1,208,000	\$1,264,000
Board of Director			\$134,000	\$143,000	\$148,000	\$153,000	\$158,000	\$164,000
Engineering/Tech	•	8)	\$1,223,000	\$1,279,000	\$1,338,000	\$1,399,000	\$1,463,000	\$1,530,000
Administrative Se			\$1,551,000	\$1,482,000	\$1,548,000	\$1,616,000	\$1,688,000	\$1,763,000
Water Resources Subtotal Operating			\$1,713,000 \$16,966,000	\$1,781,000 \$17,559,000	\$1,851,000 \$18,336,000	\$1,925,000 \$19,203,000	\$2,002,000 \$20,057,000	\$2,082,000 \$20,951,000
Debt Service	, ENPERIORS		710,200,000	711,333,000	000,000 درمیږ	¥±9,203,000	720,037,000	720,331,000
Series 2016 Wate	er Revenue Bond	ds	\$101,144	\$101,134	\$101,099	\$101,138	\$101,051	\$101,038
Series 2019 Taxa			\$322,031	\$314,513	\$306,994	\$298,806	\$290,640	\$282,507
Series 2021 Wate			\$172,703	\$173,145	\$172,553	\$172,943	\$173,298	\$172,618
2022 Water CIP I			\$1,316,542	\$1,317,227	\$1,317,236	\$1,316,569	\$1,317,226	\$1,317,148
2020 VacCon Loa	an (VacCon Truck	(#1)	\$91,306	\$22,826	\$0	\$0	\$0	\$0
2020 VacCon Loa			\$90,472	\$90,479	\$45,236	, \$0	\$0	, \$0
SEWD (New Hoga	an)		\$55,751	\$55,752	\$0	\$0	\$0	\$0
New/Proposed D	ebt		\$0	\$0	\$1,351,023	\$1,351,023	\$1,351,023	\$1,351,023
Subtotal Debt Serv	rice		\$2,149,949	\$2,075,076	\$3,294,141	\$3,240,479	\$3,233,238	\$3,224,334
Total Expenses			\$19,115,949	\$19,634,076	\$21,630,141	\$22,443,479	\$23,290,238	\$24,175,334
Net Cashflow			(\$15,949)	\$1,653,924	\$1,828,859	\$2,354,521	\$2,930,762	\$2,050,666



Table 55: Water – Revised Transfers and Reserves Activity through FY 2029

Operating Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$1,521,662	\$1,505,713	\$3,159,637	\$4,988,495	\$5,534,009	\$5,742,798
Transfers (Net Cashflow )	(\$15,949)	\$1,653,924	\$1,828,859	\$2,354,521	\$2,930,762	\$2,050,666
Sources & Uses						
Transfers from/(to) Capital Reserve	\$0	\$0	\$0	(\$1,809,008)	(\$2,721,972)	(\$1,832,423)
Ending Balance	\$1,505,713	\$3,159,637	\$4,988,495	\$5,534,009	\$5,742,798	\$5,961,041
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$5,418,037	\$1,148,102	\$836,807	\$16,406,355	\$8,012,105	\$2,645,341
Plus:						
Transfers from/(to) Operating Fund	\$0	\$0	\$0	\$1,809,008	\$2,721,972	\$1,832,423
New Debt Proceeds	\$0	\$0	\$16,500,000	\$0	\$0	\$0
Sources & Uses						
Water CIP Loan Proceeds	\$2,000,000	\$8,613,557	\$8,000,000	\$0	\$0	\$0
USDA RD AMI/AMR Reimbursements	\$517,901	\$0	\$0	\$0	\$0	\$0
Grant Funding	\$1,700,000	\$0	\$0	\$0	\$0	\$0
Capacity Fee Revenue	\$1,150,000	\$3,272,553	\$0	\$0	\$0	\$0
<u>Less:</u>						
CIP	(\$9,686,715)	(\$12,212,181)	(\$9,058,813)	(\$10,385,032)	(\$8,168,072)	(\$6,185,105)
Subtotal Capital Reserve	\$1,099,223	\$822,031	\$16,277,994	\$7,830,330	\$2,566,006	(\$1,707,340)
Interest Earnings	\$48,879	\$14,776	\$128,361	\$181,775	\$79,336	\$0
Ending Balance	\$1,148,102	\$836,807	\$16,406,355	\$8,012,105	\$2,645,341	(\$1,707,340)
Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$0	\$0	\$0	\$0	\$0	\$0
Direct transfers to/(from) Rate Stabilization Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$0	\$0	\$0	\$0	\$0	\$0
Emergency Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000
Direct transfers to/(from) Emergency Reserve	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000	\$2,920,000
Ending Unrestricted Reserve Balance	\$5,573,815	\$6,916,443	\$24,314,850	\$16,466,114	\$11,308,140	\$7,173,701

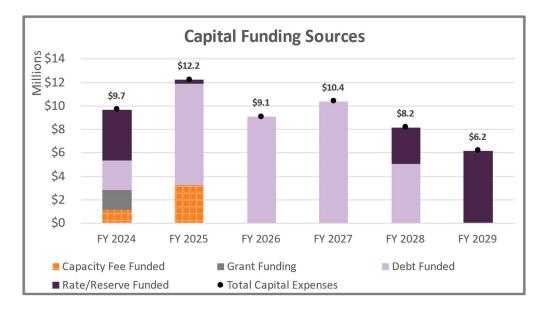
The operating position based on the proposed financial plan is identified in Figure 20, including debt service coverage. Figure 21 and Figure 22 show the revised capital plan with funding sources, including \$16.5M in new debt proceeds, and projected ending reserve balances, respectively.



**Operating Financial Plan** \$30 ||||\$25 400% 350% 300% \$20 250% \$15 200% \$10 131% 150% \$5 100% \$0 50% (\$5) FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 Net Cashflow Projected Revenue Operating Expenses •••• Debt Coverage Ratio

Figure 20: Water – Revised Proposed Operating Position

Figure 21: Water - Revised Capital Improvement Plan with Funding Sources



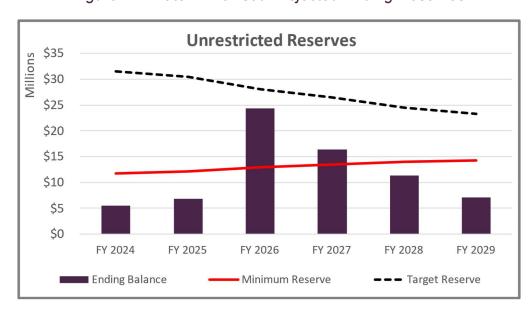


Figure 22: Water – Revised Projected Ending Reserves

The projected ending total unrestricted reserve balance is equal to approximately \$7.1M in FY 2029. The projected balance does not meet the minimum requirement and is short by \$7.2M, placing the water utility in a similar financial position that exists today. Based on these projections, the District would require a significant increase in FY 2029 to meet its minimum reserve requirement.

Table 56 and Table 57 provide the revised five-year water rate schedule over the Rate Setting Period for Bi-Monthly fixed charges and variable rates, respectively. The proposed FY 2024 rates did not change. For FY 2025 through FY 2028, the revised revenue adjustments are applied across the board to the cost-of-service rates derived for FY 2024.

Total Fixed Meter Charges (\$/Bi-Month)									
Revenue Adjustment:		12.0%	13.0%	7.0%	7.0%				
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028				
5/8"	\$136.03	\$152.36	\$172.17	\$184.23	\$197.13				
3/4"	\$191.20	\$214.15	\$241.99	\$258.93	\$277.06				
1"	\$301.54	\$337.73	\$381.64	\$408.36	\$436.95				
1 1/2"	\$577.39	\$646.68	\$730.75	\$781.91	\$836.65				
2"	\$908.41	\$1,017.42	\$1,149.69	\$1,230.17	\$1,316.29				
3"	\$1,791.13	\$2,006.07	\$2,266.86	\$2,425.55	\$2,595.34				
4"	\$2,784.19	\$3,118.30	\$3,523.68	\$3,770.34	\$4,034.27				
6"	\$5,542.69	\$6,207.82	\$7,014.84	\$7,505.88	\$8,031.30				
8"	\$8,852.89	\$9,915.24	\$11,204.23	\$11,988.53	\$12,827.73				



Table 57: Approved Water Variable Charge (FY 2024 – FY 2028)

Variable Rates (\$/HCF)								
Revenue Adjustment:		12.0%	13.0%	7.0%	7.0%			
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028			
Residential								
Tier 1	\$2.07	\$2.32	\$2.63	\$2.82	\$3.02			
Tier 2	\$2.25	\$2.52	\$2.85	\$3.05	\$3.27			
Tier 3	\$2.49	\$2.79	\$3.16	\$3.39	\$3.63			
Non-Residential	\$2.29	\$2.57	\$2.91	\$3.12	\$3.34			
Irrigation	\$2.27	\$2.55	\$2.89	\$3.10	\$3.32			



### **Appendix B – Board Approved Motion for Wastewater Rates**

Leading up to the Public Hearing, the District held three community workshops during the week of August 14<sup>th</sup> – August 18<sup>th</sup> to inform District customers of the proposed rate adjustments for water and wastewater. Based on the feedback from the community workshops, the District Board directed staff to review the CIP of each utility and identify any projects that may be deferred and rescheduled outside of the Rate Setting Period. Staff identified *two* projects in wastewater and this *Appendix B* describes the adjustments to the wastewater financial plan and corresponding rates.

#### Wastewater Deferred Projects

- LC Biolac, Clarifier & UV Improvements: Rescheduled \$813,096 of project cost to FY 2030
- ➤ Huckleberry Lift Station Improvements Tank: Rescheduled \$854,498 of project cost to FY 2030

With this revision, a revised financial plan over the Rate Setting Period was presented to the Board, at the Public Hearing, reflecting reduced revenue adjustments as follows:

- Recommended = 14%, 14%, 14%, 14%, 3%
- > Deferred CIP Revisions: 12%, 12%, 12%, 12%, 5%

#### **District Board Approved Motion**

At the close of the Public Hearing, a majority protest did not exist against the proposed wastewater rate adjustments. As part of the Board deliberations, a final motion was approved by a 3-2 vote that did not reflect either of the proposed financial plan options listed above. The Board approved lower revenue adjustments as follows:

➤ Board's Approved Motion for the Wastewater Utility (FY 2024: FY 2028): 12%, 12%, 12%, 6%, 5%

Based on the final approved motion, the financial plan and corresponding wastewater rates have been revised. The following sections provide an updated financial plan through FY 2030 to capture the capital project costs that were deferred. The revised revenue requirements for each year are shown to derive the rates that correspond to the approved Board motion.

#### Wastewater Revised Financial Plan

With the two deferred capital projects and revised revenue adjustments adopted by the Board, the proposed financial plan generates approximately \$12.4M in additional revenue over the Rate Setting Period (\$3.5M reduction). The revised financial plan does not meet the District's minimum reserve requirements in FY 2027 and may jeopardize the proposed \$6M debt issue in FY 2025. Table 58 forecasts projected revenues, *with the revised annual revenue adjustments* and expenses through FY 2030 to capture the deferred capital. FY 2029 and FY 2030 do not include revenue adjustments as they are outside the Rate Setting Period. Table 59 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 58, transfers between reserves, use of capacity fees, and annual CIP), and projected ending balances for each fiscal year through FY 2030.



Table 58: Revised Wastewater Financial Plan (FY 2024 – FY 2030)

Revenue			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Rate Revenues									
Base Fixed Charge			\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000	\$5,643,000
R&R Fixed Charges			\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000	\$1,219,000
Total Rate Revenues			\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000	\$6,862,000
Additional Revenue (from reven	nue adjustment	s):							
	Revenue	Effective							
Fiscal Year	Adjustment	Month							
FY 2024	12%	October	\$686,000	\$823,000	\$823,000	\$823,000	\$823,000	\$823,000	\$823,000
FY 2025	12%	July		\$922,000	\$922,000	\$922,000	\$922,000	\$922,000	\$922,000
FY 2026	12%	July			\$1,032,000	\$1,032,000	\$1,032,000	\$1,032,000	\$1,032,000
FY 2027	6%	July				\$578,000	\$578,000	\$578,000	\$578,000
FY 2028	5%	July					\$510,000	\$510,000	\$510,000
FY 2029	0%	July						\$0	\$0
FY 2030	0%	July							\$0
Total Additional Revenue			\$686,000	\$1,745,000	\$2,777,000	\$3,355,000	\$3,865,000	\$3,865,000	\$3,865,000
Projected Rate Revenues (inc	luding revenue	adjustments)	\$7,548,000	\$8,607,000	\$9,639,000	\$10,217,000	\$10,727,000	\$10,727,000	\$10,727,000
Operating Revenues									
Inspection Fees			\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Account Establishment Fee			\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Delinquent Account Charge	!		\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Repair Labor/Materials			\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000	\$32,000
Reimbursable Expense			\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
Other Operating Revenue			\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Subtotal Operating Revenues			\$134,000	\$134,000	\$134,000	\$134,000	\$134,000	\$134,000	\$134,000
Other Revenues									
Rental Revenue			\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Interest Income/CCWD Inv	1		\$19,000	\$19,000	\$19,000	\$40,000	\$51,000	\$52,000	\$53,000
Property Taxes			\$756,000	\$756,000	\$756,000	\$756,000	\$756,000	\$756,000	\$756,000
Standby Fees			\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Power Sales - North Fork			\$167,000	\$167,000	\$167,000	\$167,000	\$167,000	\$167,000	\$167,000
Power Sales - New Hogan			\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000	\$22,000
Other Non-Operating Reve	r		\$193,000	\$193,000	\$193,000	\$193,000	\$193,000	\$193,000	\$193,000
Subtotal Other Revenues			\$1,214,000	\$1,214,000	\$1,214,000	\$1,235,000	\$1,246,000	\$1,247,000	\$1,248,000
Total Revenues			\$8,896,000	\$9,955,000	\$10,987,000	\$11,586,000	\$12,107,000	\$12,108,000	\$12,109,000
0&M Expenses			FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Operating Expenses									
Non-Departmental (50)			\$396,000	\$414,000	\$433,000	\$453,000	\$473,000	\$495,000	\$518,000
Utility Services (54)			\$3,895,000	\$3,932,000	\$4,105,000	\$4,306,000	\$4,496,000	\$4,695,000	\$4,903,000
General Management (56)			\$360,000	\$377,000	\$395,000	\$413,000	\$432,000	\$452,000	\$473,000
Board of Directors (57)			\$51,000	\$53,000	\$55,000	\$57,000	\$59,000	\$61,000	\$63,000
Engineering/Technical Servi			\$453,000	\$473,000	\$495,000	\$518,000	\$541,000	\$566,000	\$592,000
Administrative Services (59			\$574,000	\$562,000	\$587,000	\$613,000	\$640,000	\$669,000	\$699,000
Water Resources (60)			\$424,000	\$441,000	\$459,000	\$478,000	\$498,000	\$518,000	\$539,000
Treatment			\$378,000	\$395,000	\$413,000	\$431,000	\$450,000	\$470,000	\$491,000
Subtotal Operating Expenses			\$6,153,000	\$6,252,000	\$6,529,000	\$6,838,000	\$7,139,000	\$7,456,000	\$7,787,000
Debt Service Series 2019 Taxable Revenu	ie Refunding l	l	¢1E0 £12	¢1E4 000	¢1E1 200	¢147 172	¢1/12 1F1	¢120 14F	\$124.020
2022 Sewer CIP Loan	ac iterationing i	<u>.</u>	\$158,612 \$753,168	\$154,909 \$752,920	\$151,206 \$753,256	\$147,173 \$752.144	\$143,151 \$753,584	\$139,145	\$134,820 \$753,024
2020 VacCon Loan (VacCon	Truck #1\		\$753,168 \$33,771	\$752,920	\$753,256 \$n	\$753,144 \$0		\$753,544 \$0	\$753,024 \$0
2020 VacCon Loan (VacCon	•			\$8,443	\$0 \$16.731	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
SEWD (New Hogan)	11 UCK #2)		\$33,462	\$33,465	\$16,731	\$0	\$0	\$0	\$0
New/Proposed Debt			\$20,620	\$20,621	\$0 \$547,100	\$0 \$547,100	\$0	\$0 \$547.100	\$0
Subtotal Debt Service			\$999 634	\$547,109 \$1,517,466	\$547,109	\$547,109	\$547,109	\$547,109	\$547,109
Total Expenses			\$999,634	\$1,517,466	\$1,468,302	\$1,447,426	\$1,443,843	\$1,439,798	\$1,434,953
·			\$7,530,634	\$8,164,466	\$8,410,302	\$8,716,426	\$9,032,843	\$9,365,798	\$9,712,953
Net Cashflow			\$1,365,366	\$1,790,534	\$2,576,698	\$2,869,574	\$3,074,157	\$2,742,202	\$2,396,047



Table 59: Wastewater – Revised Transfers and Reserves Activity through FY 2030

Operating Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Beginning Balance	(\$2,380,674)	(\$1,015,307)	\$775,227	\$2,073,773	\$2,149,256	\$2,227,276	\$2,309,375
Transfers (Net Cashflow )	\$1,365,366	\$1,790,534	\$2,576,698	\$2,869,574	\$3,074,157	\$2,742,202	\$2,396,047
Sources & Uses							
Transfers from/(to) Capital Reserve	\$0	\$0	(\$1,278,152)	(\$2,794,092)	(\$2,996,136)	(\$2,660,104)	(\$2,310,447)
Ending Balance	(\$1,015,307)	\$775,227	\$2,073,773	\$2,149,256	\$2,227,276	\$2,309,375	\$2,394,975
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Beginning Balance	\$6,355,846	\$2,872,490	\$6,756,354	\$2,199,851	\$1,484,848	\$1,837,200	\$1,909,442
Plus:							
Transfers from/(to) Operating Fund	\$0	\$0	\$1,278,152	\$2,794,092	\$2,996,136	\$2,660,104	\$2,310,447
New Debt Proceeds	\$0	\$6,000,000	\$0	\$0	\$0	\$0	\$0
Sources & Uses							
Wastewater CIP Loan Proceeds	\$3,715,566	\$3,875,000	\$0	\$0	\$0	\$0	\$0
Grant Funding	\$5,000,000	\$0	\$0	\$0	\$0	\$0	\$0
Capacity Fee Revenue	\$2,185,238	\$1,360,723	\$0	\$0	\$0	\$0	\$0
Less:							
CIP	(\$14,452,857)	(\$7,423,538)	(\$5,901,326)	(\$3,536,525)	(\$2,668,514)	(\$2,615,752)	(\$2,666,456)
Subtotal Capital Reserve	\$2,803,793	\$6,684,675	\$2,133,180	\$1,457,419	\$1,812,470	\$1,881,552	\$1,553,434
Interest Earnings	\$68,697	\$71,679	\$66,672	\$27,430	\$24,730	\$27,891	\$25,972
Ending Balance	\$2,872,490	\$6,756,354	\$2,199,851	\$1,484,848	\$1,837,200	\$1,909,442	\$1,579,405
Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Beginning Balance	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500
Direct transfers to/(from) Rate Stabilization Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500	\$192,500
Emergency Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Beginning Balance	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000
Direct transfers to/(from) Emergency Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000	\$1,080,000
Ending Unrestricted Reserve Balance	\$3,129,683	\$8,804,081	\$5,546,125	\$4,906,604	\$5,336,977	\$5,491,317	\$5,246,880

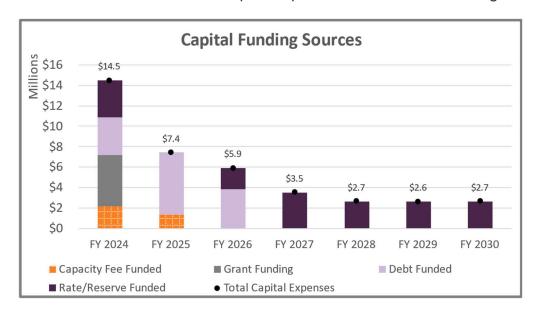
The operating position based on the proposed financial plan is identified in Figure 23, including debt service coverage. Figure 24 and Figure 25 show the revised capital plan with funding sources, including \$6M in new debt proceeds, and projected ending reserve balances, respectively.



**Operating Financial Plan** \$14 |||| \$12 400% 350% 300% \$10 250% \$8 \$6 150% \$4 100% \$2 50% \$0 0% FY 2027 FY 2030 Net Cashflow Projected Revenue Operating Expenses ••• Debt Coverage Ratio

Figure 23: Wastewater – Revised Proposed Operating Position

Figure 24: Wastewater - Revised Capital Improvement Plan with Funding Sources



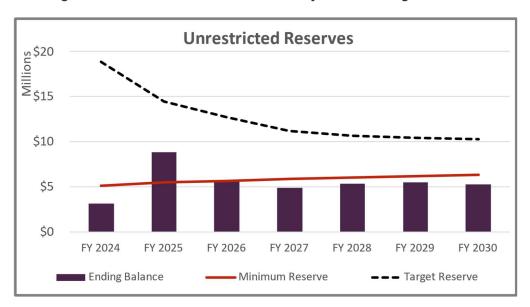


Figure 25: Wastewater – Revised Projected Ending Reserves

The projected ending reserve balances do not meet the minimum requirements starting in FY 2027. The projected ending unrestricted reserve balance in FY 2030 is equal to approximately \$5.2M and is short by \$1.1M to meet the minimum reserve requirement. Based on these projections, the District would require increases in FY 2029 and FY 2030 to meet its minimum reserve requirement.

Table 60 identifies the revised revenue requirements and Table 61 provide the revised five-year wastewater rate schedule over the Rate Setting Period.

Table 60: Revised Wastewater Revenue Requirements and Rate per EDU

Proposed Charge	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Requirement	\$7,685,200	\$8,607,000	\$9,639,000	\$10,217,000	\$10,727,000
÷ Annual EDU's	32,676	32,676	32,676	32,676	32,676
Unit Rate (\$/EDU/Month)	\$235.20	\$263.41	\$294.99	\$312.68	\$328.29

Table 61: Approved Wastewater Bi-Monthly Fixed Charge (FY 2024 – FY 2028)

Total Fixed Charges (\$/Bi-Month/EDU)								
Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028			
Residential	\$235.20	\$263.41	\$294.99	\$312.68	\$328.29			
Non-Residential	\$235.20	\$263.41	\$294.99	\$312.68	\$328.29			

