Public Hearing June 29, 2023

DRAFT Comprehensive Cost-of-Service Utility Rate Study





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TABLE OF CONTENTS

Executive Summary	6
Water Utility	11
Financial Plan Overview – Water Utility	15
Proposed Financial Plan – Water Utility	27
Cost-of-Service Analysis – Water Utility	32
Rate Design – Water Utility	39
FY 2024 Cost-of-Service Rates – Water Utility	47
Wastewater Utility	48
Financial Plan Overview - Wastewater Utility	50
Proposed Financial Plan – Wastewater Utility	57
Cost of Service Analysis – Wastewater Utility	62
Rate Design – Wastewater Utility	66
Recycled Water	73
Financial Plan Overview – Recycled Utility	75
Proposed Financial Plan – Recycled Utility	81
Cost-of-Service Analysis – Recycled Utility	86
Rate Design – Recycled Utility	87
Cost-Based Rates - Water, Wastewater, and Recycled	89
Rate Schedules – Water, Wastewater, and Recycled	90
Appendix A – Water Supply Analysis	93

TABLES

Table 1: Proposed Monthly Fixed Charges by Meter Size	7
Table 2: Proposed Variable Rates	8
Table 3: Variable Pumping Rates	8
Table 4: Proposed Wastewater Rates	9
Table 5: Proposed Recycled Fixed Charges	10
Table 6: Proposed Recycled Variable Rates	10
Table 7: Potable Water Meters by Meter Size	12
Table 8: FY 2023 Monthly Base Fixed Charges	13
Table 9: FY 2023 Monthly WRES Fixed Charges	
Table 10: FY 2023 Variable Rates	
Table 11: FY 2023 Variable Pumping Rates	
Table 12: Assumptions for Forecasting Revenues	
Table 13: Accounts by Meter Size – FY 2024 through FY 2028	17
Table 14: Projected Consumption (HCF) – FY 2024 through FY 2028	17
Table 15: Projected Pumping Consumption (HCF) – FY 2024 through FY 2028	
Table 16: Assumptions for Forecasting Expense Requirements	18
Table 17: Water Calculated Rate Revenues	10
Table 18: Water Drojected Revenues	20
Table 10: Projected O&M Evoneses	20
Table 10: Reserve Requirements and Targets	
Table 20. Neserve Nequilements and Targets	22 24
Table 21: Water Transfore and Pocoryo Activity at Existing Pater	24
Table 22: Water – Hallsleis and Reserve Activity at Existing Rates	20 29
Table 23. Floposed Water Financial Fiant	20
Table 24. Water – Transiers and Reserves Activity infough FT 2020	29
Table 25. Water Revenue Requirements	ఎం ఎ్
Table 26. Water Supply and Pumping Expense Allocation to Cost Components (%)	
Table 21: Water Supply and Pumping Expense Allocation to Cost Components (\$)	
Table 28: O&M Expense Allocation to Cost Components (%)	
Table 29: Own Expense Allocation to Cost Components (\$)	
Table 30: Water Debt Allocation to Cost Components (%)	
Table 31: Water Debt Allocation to Cost Components (\$)	
Table 32: Other Funding to Cost Components (%)	
Table 33: Other Funding Allocation to Cost Components (\$)	
Table 34: FY 2024 Water Cost-of-Service Requirements by Cost Component	
Table 35: Accounts and Meter Equivalents	40
Table 36: Projected Usage by Customer Class and Tier (HCF)	40
Table 37: Projected Usage by Pumping Zone (HCF)	41
Table 38: FY 2024 Fixed Purchased Water Monthly Unit Rate	
Table 39: FY 2024 Account Services Monthly Unit Rate	
Table 40: FY 2024 Meter Capacity Monthly Unit Rate	
Table 41: FY 2024 Water Supply Unit Rates per HCF	
Table 42: FY 2024 Customer Class and Tier Water Supply Unit Rates per HCF	
Table 43: FY 2024 Portola Hills Cost Unit Rate per HCF	
Table 44: FY 2024 Delivery Cost Unit Rate per HCF	
Table 45: FY 2024 Treatment Unit Rate per HCF	
Table 46: FY 2024 Monthly Fixed Charges by Meter Size	
Table 47: FY 2024 Variable Rates by Customer Class and Tier (HCF)	47
Lable 48: Wastewater Billable Units by Customer Class	
Table 49: Existing Wastewater Monthly Fixed Charges	49
Table 50: Wastewater Assumptions for Forecasting Revenues	50
Table 51: Wastewater Assumptions for Forecasting Expense Requirements	50

Table 52: Wastewater Calculated Rate Revenues	51
Table 53: Wastewater Projected Wastewater Revenues	51
Table 54: Wastewater Projected O&M Expenses	52
Table 55: Wastewater Reserve Requirements and Targets	53
Table 56: Wastewater Financial Plan at Existing Rates	54
Table 57: Wastewater – Transfers and Reserve Activity at Existing Rates	55
Table 58: Proposed Wastewater Financial Plan	58
Table 59: Wastewater – Undesignated Reserves Activity through FY 2028	59
Table 60: Wastewater Revenue Requirements	62
Table 61: Wastewater O&M Expense Allocation to Cost Components (%)	64
Table 62: Wastewater O&M Expense Allocation to Cost Components (\$)	64
Table 63: Wastewater Debt Allocation to Cost Components (%)	64
Table 64: Wastewater Debt Allocation to Cost Components (\$)	64
Table 65: Wastewater Other Funding to Cost Components (%)	65
Table 66: Wastewater Other Funding to Cost Components (\$)	65
Table 67: FY 2024 Wastewater Cost-of-Service Requirements by Cost Component	65
Table 68: Residential Projected Flows	66
Table 69: Non-Residential Projected Flows (HCF)	67
Table 70: Wastewater Units of Service	67
Table 71: FY 2024 Wastewater Account Services Monthly Unit Rate	68
Table 72: FY 2024 Wastewater Collection Allocation by Customer Class	69
Table 73: FY 2024 Wastewater COD Allocation by Customer Class	70
Table 74: FY 2024 Wastewater TSS Allocation by Customer Class	71
Table 75: FY 2024 Wastewater Total Revenue Requirement by Customer Class	71
Table 76: FY 2024 Residential Flat Monthly Charge	72
Table 77: FY 2024 Commercial Monthly Fixed Charge	72
Table 78: FY 2024 Commercial Variable Rates	72
Table 79: Recycled Accounts by Meter Size	73
Table 80: FY 2023 Recycled Monthly Base Fixed Charges	74
Table 81: FY 2023 Recycled Monthly WRES Fixed Charges	74
Table 82: FY 2023 Recycled Variable Rate	74
Table 83: Recycled Assumptions for Forecasting Revenues	75
Table 84: Recycled Assumptions for Forecasting Expenses	75
Table 85: Recycled Calculated Rate Revenues	76
Table 86: Recycled Projected Revenues	76
Table 87: Recycled Projected O&M Expenses	77
Table 88: Recycled Reserve Requirements and Targets	77
Table 89: Recycled Financial Plan at Existing Rates	78
Table 90: Recycled – Transfers and Reserve Activity at Existing Rates	79
Table 91: Recycled Proposed Financial Plan	82
Table 92: Recycled Transfers and Reserve Activity	83
Table 93: Recycled Revenue Requirements	86
Table 94: Proposed Recycled Monthly Meter Charges	87
Table 95: Proposed Recycled Variable Rates	88
Table 96: Proposed Water Monthly Fixed Charge (FY 2024 – FY 2028)	90
Table 97: Proposed Water Variable Charge (FY 2024 – FY 2028)	90
Table 98: Proposed Water Variable Pumping Rates (FY 2024 – FY 2028)	91
Table 99: Proposed Wastewater Monthly Fixed Charge (FY 2024 – FY 2028)	91
Table 100: Proposed Recycled Monthly Fixed Charge (FY 2024 – FY 2028)	92
Table 101: Proposed Recycled Variable Rates (FY 2024 – FY 2028)	92
Table 102: Water Supply Analysis	93
Table 103: Water Supply Analysis Summary	94

FIGURES

Figure 1: District Water System	11
Figure 2: Water Capital Improvement Plan	12
Figure 3: Financial Plan Key Elements	15
Figure 4: Water Utility Reserves	22
Figure 5: Current Operating Financial Position	26
Figure 6: Projected Ending Reserves at Existing Rates	26
Figure 7: Water – Proposed Operating Position	30
Figure 8: Water – Capital Improvement Plan with Funding Sources	30
Figure 9: Water – Proposed Ending Reserves	31
Figure 10: Cost-of-Service Process	32
Figure 11: Cost Components	34
Figure 12: Distribution Basis and Units of Service by Cost Component	42
Figure 13: Wastewater System	48
Figure 14: Wastewater Capital Improvement Plan	48
Figure 15: Wastewater Current Operating Financial Position	55
Figure 16: Wastewater Projected Ending Reserves at Existing Rates	56
Figure 17: Wastewater Proposed Operating Position	60
Figure 18: Wastewater Capital Improvement Plan with Funding Sources	60
Figure 19: Wastewater Proposed Ending Reserves	61
Figure 20: Wastewater Cost Components	63
Figure 21: Wastewater Distribution Basis and Units of Service by Cost Component	68
Figure 22: Recycled Capital Improvement Plan	73
Figure 23: Recycled Current Operating Financial Position	79
Figure 24: Recycled Projected Ending Reserves at Existing Rates	80
Figure 25: Recycled Proposed Operating Position	84
Figure 26: Recycled Capital Improvement Plan with Funding Sources	84
Figure 27: Recycled Proposed Ending Reserves	85

Executive Summary

The Trabuco Canyon Water District (District) periodically reviews its rates to determine if adjustments are required to meet its operational costs, system improvements, and to adequately fund reserves based on adopted reserve policies. Historically, the District has updated its rates every five years, with the most recent update in December 2020. Due to increases in capital expenses and the recent hyper-inflationary climate over the past year, the District anticipated rate increases would be needed to replace the current noticed rates for Fiscal Year 2023-24 (FY 2024) and FY 2025. The District went through a request for proposals (RFP) process to hire a rate consultant to perform an independent third-party review of its exiting rates and current financial outlook. After proposal evaluations, the District hired IB Consulting to conduct a comprehensive cost-of-service update to its water, wastewater, and recycled rates. This report provides a basis for developing and implementing cost-based utility rates from FY 2024 through FY 2028 (Rate Setting Period) in compliance with California Constitution Article XIII D, section 6 (Proposition 218).

<u>Water Utility</u>

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. As part of reviewing and updating water rates, the first step 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 and noticed rates through FY 2025, the District is projected to end FY 2024 with an operating deficit of \$833k, which will grow to approximately \$1.48M by FY 2028. Separate from operating expenses, the District also has significant capital projects over the next five years totaling \$13.2M, which includes a transmission line upsizing (\$2.5M) and a new reservoir at Harris Grade (\$5.9M). The District has an existing loan with almost \$3M of available funding remaining to go towards the planned capital projects, with remaining funding coming from reserves. However, without increases to rates, reserves would be depleted but FY 2026. Therefore, the proposed financial plan generates an additional \$21.3M in rate revenue that is phased in over the Rate Setting Period. In addition, a new proposed debt issuance is planned to occur in FY 2024 that will convert the District existing short-term credit line into long-term debt over a 30 amortization schedule and obtain additional proceeds of \$3M to cover the capital expenses in FY 2025 and a portion of FY 2026 capital projects. The new debt issue and related proceeds will allow rate revenue to increase over time and fund capital on a Pay-As-You-Go (PAYGO) basis by FY 2027.

The total proposed debt issue is expected to equal \$18M, with \$10M for the water utility (\$7M of short-term debt refinanced and \$3M in new money), \$7M for the wastewater utility (\$2.5M of short-term debt refinanced and \$4.5M in new money), and \$1M (\$500k of short-term debt refinanced and \$500k in new money) for the recycled utility.

Rate Structure

The District's water rate structure includes a monthly base fixed charge and a separate capital funding fixed charge, referred to as the WRES Fixed Charge. Both fixed charges vary by meter size and are charged to all customers, except for the area known as Portola Hills, which is no longer subject to the WRES fixed charge, which ended after FY 2018 for their share of the capital projects. Variable rates vary by customer class with Single-Family customers subject to a four-tiered rate structure, charged in Hundred Cubic Feet¹ (HCF) increments, and all other customer classes pay their proportionate share of cost through uniform rates per

¹ 1 HCF = 748 gallons



HCF. The District also has variable pumping rates for certain areas of the District that require booster pumps to cover the cost of conveying water up to the higher elevations.

The cost-of-service analysis within this report includes adjustments to the existing rate structure. The WRES will sunset after FY 2023 as the remaining facilities associated with the WRES dedicated funding are part of this rate cycle's CIP. However, fixed charges will continue to fund a portion of capital needs and will be adjusted upward to recovery approximately 40% of total rate revenue to ensure revenue stability. Single-Family tiers will reduce to a three-tiered rate structure reflecting water usage characteristics throughout the year (Tier 1 = winter average, Tier 2 = summer average, and Tier 3 = greater than Tier 2). The differentials between the proposed tiered rates have been adjusted and solely reflect the differences in water supply costs. A detailed analysis of the District's water supplies was conducted to determine the variable unit cost of water supply. The District's four water supplies include water from the Baker Water Treatment Plant (operated by Irvine Ranch Water District or IRWD). Dimension Water Treatment Plant (owned and operated by the District), imported treated water from IRWD (IRWD – Treated) and imported treated water from Santa Margarita Water District (SMWD – Treated).

The total projected water demand within each tier is served by first using the lowest cost water supply up to the most expensive. In some cases, multiple water supplies are needed to serve the total demand within each tier and a weighted unit rate is derived. Multi-Family customers will adjust to a 2-tiered rate structure based on usage characteristics (Tier 1 = winter average and Tier 2 = usage above Tier 1). Due to the broad spectrum of land uses, the Commercial rate structure will maintain a uniform rate to ensure equity between accounts within the customer class and a blended water supply unit rate is applied to ensure Commercial customers are paying their proportionate share of costs. Portola Hills uniform rate has been adjusted to account for operational costs of the District to distribute water to Portola Hills, in line with all other customers, but this area only receives water from Irvine Ranch Water District (IRWD) and is not subject to treatment related costs from the Dimensions treatment plant. The District's variable pumping rates have been recalibrated based on the most recent known current energy costs, except for the Portola Hills pumping charge, which has been eliminated and incorporated into a fully loaded water supply unit rate.

By adopting the proposed financial plan and approving rates through FY 2028, the 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 have been incorporated into a Proposition 218 Notice and mailed to each customer. A Public Hearing is scheduled for June 28, 2023, on the proposed rates identified in Table 1 through

Table 2. If there's not a majority protest, proposed rates for FY 2024 will go into effect on July 1, 2023, with subsequent adjustments occurring each July 1st thereafter.

Potable Fixed Meter Charges (\$/Month)										
Meter Size	FY	2024	FY	2025	F	FY 2026	F	Y 2027	F	Y 2028
5/8"	\$	46.84	\$	55.28	\$	65.24	\$	71.77	\$	78.95
3/4"		46.84		55.28		65.24		71.77		78.95
1"		94.93		112.02		132.19		145.41		159.96
1 1/2"		175.08		206.60		243.79		268.17		294.99
2"		271.26		320.09		377.71		415.49		457.04
3"		575.83		679.48		801.79		881.97		970.17
4"		1,024.67		1,209.12		1,426.77		1,569.45		1,726.40
6"		2,098.68		2,476.45		2,922.22		3,214.45		3,535.90

Table 1: Proposed Monthly Fixed Charges by Meter Size



Potable Variable F	Rates (\$/HCF)										
Customer Class	Tier Definitions (HCF)	Fì	2024	F	Y 2025	F	Y 2026	F	FY 2027	F	Y 2028
Single-Family											
Tier 1	0 - 13	\$	4.40	\$	5.20	\$	6.14	\$	6.76	\$	7.44
Tier 2	14 - 21		5.12		6.05		7.14		7.86		8.65
Tier 3	>21		5.64		6.66		7.86		8.65		9.52
Multi-Family											
Tier 1	0 - 6	\$	4.62	\$	5.46	\$	6.45	\$	7.10	\$	7.81
Tier 2	>6		5.64		6.66		7.86		8.65		9.52
Commercial		\$	4.73	\$	5.59	\$	6.60	\$	7.26	\$	7.99
Irrigation		\$	4.73	\$	5.59	\$	6.60	\$	7.26	\$	7.99
Agricultural		\$	4.73	\$	5.59	\$	6.60	\$	7.26	\$	7.99
Portola Hills		\$	5.25	\$	6.20	\$	7.32	\$	8.06	\$	8.87

Table 2: Proposed Variable Rates

Table 3: Variable Pumping Rates

Pumping Variable Rates (\$/HCF)								
Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028			
Zone 1 - Base	\$ -	\$ -	\$ -	\$-	\$-			
Zone 2 - Topanga / Saddlecrest	0.53	0.63	0.75	0.83	0.92			
Zone 3 - Canyon Creek	0.94	1.11	1.31	1.45	1.60			
Zone 4 - Falcon	1.44	1.70	2.01	2.22	2.45			
Zone 5 - Joplin	0.14	0.17	0.21	0.24	0.27			



Wastewater Utility

Based on a financial review of the wastewater utility at current rates and approved rates through FY 2025, the District will cover operating expenses and generate positive net income for each fiscal year over the Financial Plan Period. 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 \$5.285M over the Rate Setting Period, and the proposed FY 2024 debt issuance would provide \$4.5M in new money to fund capital costs in FY 2024 and FY 2025. 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 2026.

The District's existing wastewater rate structure consists of flat monthly fixed charges to residential customers for each dwelling unit hat vary between Single-Family and Multi-Family. Commercial customers are charged a monthly fixed charge and variable rates based on the level of strength concentration generated by the type of commercial use. Variable rates are categorized between three Low, Medium, and High.

The proposed wastewater rates derived within this report include a restructuring of wastewater rates. All residential customers will be charged the same monthly rate as the residential density factors in the area reflect 2.75 people per household (pph), based on population statistics from the E-5 Table of the Department of Finance and the multi-family complex within the District's service area does not have any age restrictions limiting the household size. Residential rates are currently noticed and collected on a monthly basis but will transition to recovery on the Property Tax Bill. The Residential charges herein will still be derived as a monthly charge for comparison to existing rates. Within the Proposition 218 Notice, residential charges will show the month charge as well as the annual amount levied and collected on the Property Tax Bill. Commercial customers will continue to be a monthly fixed charge to Commercial is low (\$5.69 per month) and will be recalibrated to generate slightly more fixed revenue. The recommended wastewater rates are included within the Proposition 218 Notice, and a Public Hearing is scheduled for June 28, 2023, on the proposed rates identified in Table 4. If there's not a majority protest, proposed rates for FY 2024 will go into effect on July 1, 2023, with subsequent adjustments occurring each July 1st thereafter.

Flat Charges (\$/Month)										
Customer Class	FY	2024	FY	2025	FY	2026	FY	2027	FY	2028
Residential	\$	45.92	\$	53.27	\$	61.80	\$	69.22	\$	77.53
Commercial	\$	12.58	\$	14.60	\$	16.94	\$	18.98	\$	21.26
Variable Rates (\$/	HCF))								
Customer Class	FY	2024	FY	2025	FY	2026	FY	2027	FY	2028
Commercial										
Low	\$	4.78	\$	5.55	\$	6.44	\$	7.22	\$	8.09
Medium		<u>ه م</u>		0 28		10 77		12 07		12 52
Medium		0.00		9.20		10.77		12.07		13.52

Table 4: Proposed Wastewater Rates



Recycled Utility

Based on a financial review of the recycled utility at current rates and approved rates through FY 2025, the recycled utility generates sufficient revenue to cover operating expenses and \$1.2M in net income over the Rate Setting Period, but the capital improvement plan for recycled over the same period exceeds \$2.5M with an additional \$1.7M in capital projects the following year (FY 2029) related to the Dove Dam Outlet Replacement. With these critical capital needs, rate increases are needed to cover the system reinvestment and build up reserve to satisfy minimum reserve requirements. The proposed financial plan and recommended adjustments would generate \$4.1M in additional revenue over the Rate Setting Period and \$500k in debt proceeds from the proposed FY 2024 debt issuance. Collectively, the increased rate revenue and debt-financing would cover the utility's revenue requirements and build up reserves to the ideal target by FY 2028 in anticipation of drawing it down for the Dove Dam project.

The District's recycled rates include the same fixed charges as potable rates and a uniform variable rate. The proposed recycled rates will continue to be pegged to the proposed potable meter charges, equal to 55% of potable meter charges and variable rates will remain as a uniform rate applied to all recycled customers. The recommended recycled rates are included within the Proposition 218 Notice, and a Public Hearing is scheduled for June 28, 2023, on the proposed rates identified in Table 5 and Table 6. If there's not a majority protest, proposed rates for FY 2024 will go into effect on July 1, 2023, with subsequent adjustments occurring each July 1st thereafter.

Recycled Fixed Meter Charges (\$/Month)									
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028				
5/8"	\$ 25.76	\$ 30.40	\$ 35.88	\$ 39.47	\$ 43.42				
3/4"	25.76	30.40	35.88	39.47	43.42				
1"	52.21	61.61	72.70	79.98	87.98				
1 1/2"	96.29	113.63	134.08	147.49	162.24				
2"	149.19	176.05	207.74	228.52	251.37				
3"	316.71	373.71	440.98	485.08	533.59				
4"	563.57	665.02	784.72	863.20	949.52				
6"	1,154.27	1,362.05	1,607.22	1,767.95	1,944.75				
8"	2,476.75	2,922.57	3,448.63	3,793.50	4,172.85				
10"	3,711.06	4,379.05	5,167.28	5,684.01	6,252.42				

Table 5: Proposed Recycled Fixed Charges

Table 6: Proposed Recycled Variable Rates

Proposed Recycled Variable Rates (\$/HCF)									
Variable Rates	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028				
Recycled	\$4.08	\$4.90	\$5.89	\$6.81	\$7.49				



Water Utility

<u>Water System</u>

The District encompasses an area of approximately 8,200 acres in the southeastern portion of Orange County at the foothills of the Santa Ana Mountains and its service area includes communities within the City of Rancho Santa Margarita, City of Lake Forest, City of Mission Viejo, Trabuco Canyon and other areas of unincorporated Orange County. The District is a regional partner in the Baker Water Treatment Plant and operates the Dimension Water Treatment Plant. The District water facilities also include two wells, nine pump stations, eight treated water storage reservoirs and 66 miles of water distribution pipelines with approximately 4,090 service connections (excluding temporary construction meters).



Figure 1: District Water System

The District recently completed a new asset management plan that identified capital project needs of \$30M over the next ten years. Through the District's review of the asset management plan and prioritizing projects between critical, less critical, and non-critical improvements, a final proposed Capital Improvement Plan (CIP) for this study was provided requiring \$38.7M in capital spending over the next ten years, of which \$13.2M is needed during the Rate Setting Period. Figure 2 shows the District's CIP through FY 2028 with current funding sources.





Figure 2: Water Capital Improvement Plan

<u>Customers</u>

The District serves 4,090 potable meters, with over 80% of accounts classified as residential. Table 7 provides a summary of meters by meter size.

Meter Size	Single- Family	Multi- Family	Commercial	Irrigation	Agricultural	Portola Hills	Total
5/8"	2,143	0	17	1	0	463	2,624
3/4"	795	0	7	0	1	68	871
1"	359	18	15	1	1	0	394
1 1/2"	19	13	7	4	1	0	44
2"	45	0	30	70	0	0	145
3"	1	0	1	5	0	0	7
4"	0	0	1	0	2	0	3
6"	0	0	2	0	0	0	2
Total	3,362	31	80	81	5	531	4,090

Table 7: Potable Water Meters by Meter Size

As previously mentioned, the existing rate structure consists of a base monthly fixed meter charge, a WRES fixed charge for capital spending, and variable rates that vary by customer class, with Single-Family subject to a four-tiered rate structure. Current monthly fixed charges are identified in Table 8 and Table 9, followed by variable rates shown in Table 10 and Table 11.



Base Fixed Meter Charges (\$/Month)							
Meter Size	Ex	isting					
5/8"	\$	21.04					
3/4"		21.04					
1"		30.70					
1 1/2"		54.85					
2"		83.81					
3"		175.57					
4"		310.77					
6"		779.18					

Table 8: FY 2023 Monthly Base Fixed Charges

Table 9: FY 2023 Monthly WRES Fixed Charges

WRES Fixed Meter Charges (\$/Month)							
Meter Size	Exi	sting					
5/8"	\$	16.04					
3/4"		16.04					
1"		25.25					
1 1/2"		38.48					
2"		51.30					
3"		76.95					
4"		102.60					
6"		153.90					



Potable Variable Rates (\$/HCF)									
Customer Class	Exis	kisting							
Single-Family									
Tier 1	\$	2.92							
Tier 2		3.72							
Tier 3		7.06							
Tier 4		9.16							
Multi-Family	\$	3.43							
Commercial	\$	3.76							
Irrigation	\$	4.86							
Agricultural	\$	6.17							
Portola Hills	\$	2.56							

Table 10: FY 2023 Variable Rates

Table 11: FY 2023 Variable Pumping Rates

Pumping Variable Rates (\$/HCF)									
Pumping Zone Existing									
Zone 1 - Base	\$	-							
Zone 2 - Topanga / Saddlecrest		0.99							
Zone 3 - Canyon Creek		4.36							
Zone 4 - Falcon		2.08							
Zone 5 - Joplin		1.69							
Zone 6 - Portola Hills		0.35							



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 compliance 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.







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 12** identifies assumptions used for forecasting revenues. **Table 13** provides details on the number of accounts by meter size and

Table 14 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 growth to occur. In addition, water sales assume a slight reduction of over the last two years, from 2,374 AF in FY 2021 to 2,323 AF for FY 2024 and beyond. Table 15 identifies the amount of projected usage through each elevation zone.

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Escalation					
Non-Rate Revenues	0%	0%	0%	0%	0%
Reserve Interest	2.0%	2.0%	2.0%	2.0%	2.0%
Account Growth	0%	0%	0%	0%	0%
Water Sales					
Customer Usage (AF)	2,323	2,323	2,323	2,323	2,323
Customer Usage (HCE)	1 011 889	1 011 889	1 011 889	1 011 889	1 011 889

Table 12: Assumptions for Forecasting Revenues



Customer Accounts	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
All Potable Meters					
Meter Size					
5/8"	2,624	2,624	2,624	2,624	2,624
3/4"	871	871	871	871	871
1"	394	394	394	394	394
1 1/2"	44	44	44	44	44
2"	145	145	145	145	145
3"	7	7	7	7	7
4"	3	3	3	3	3
6"	2	2	2	2	2
Total All Potable Meters	4,090	4,090	4,090	4,090	4,090

Table 13: Accounts by Meter Size – FY 2024 through FY 2028

Table 14: Projected Consumption (HCF) – FY 2024 through FY 2028

Consumption by Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family					
Tier 1	297,504	297,504	297,504	297,504	297,504
Tier 2	229,662	229,662	229,662	229,662	229,662
Tier 3	95,704	95,704	95,704	95,704	95,704
Tier 4	40,603	40,603	40,603	40,603	40,603
Subtotal Single-Family Consumption (HCF)	663,473	663,473	663,473	663,473	663,473
Multi-Family	12,075	12,075	12,075	12,075	12,075
Commercial	34,008	34,008	34,008	34,008	34,008
Irrigation	143,718	143,718	143,718	143,718	143,718
Agricultural	95,593	95,593	95,593	95,593	95,593
Destale Hills	c2 022	62,022	62,022	62,022	62,022
	63,022	63,022	63,022	63,022	63,022
Total Potable Consumption (HCF)	1 011 889	1 011 889	1 011 889	1 011 889	1 011 889



Potable Consumption by Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Pumping Zone					
Zone 1 - Base	932,738	932,738	932,738	932,738	932,738
Zone 2 - Topanga / Saddlecrest	8,282	8,282	8,282	8,282	8,282
Zone 3 - Canyon Creek	2,179	2,179	2,179	2,179	2,179
Zone 4 - Falcon	2,632	2,632	2,632	2,632	2,632
Zone 5 - Joplin	3,036	3,036	3,036	3,036	3,036
Zone 6 - Portola Hills	63,022	63,022	63,022	63,022	63,022
Total Potable Consumption by Pumping Zone (HCF)	1,011,889	1,011,889	1,011,889	1,011,889	1,011,889

Table 15 [.] Pro	piected Pumping	Consumption	(HCF) -	EY 2024 through EY 2028
10010 10.110	jooloa i amping	Consumption		1 1 202 + 11100g111 1 2020

Table 16 identifies assumptions used for forecasting increases in expenses over the Rate Setting Period. Purchased water costs are held constant and any increases will be captured through the pass-through provisions of Government Code section 53756.

Table 16: Assumptions for Forecasting Expense Requirements²

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Expenditure Escalation					
Benefits	7.00%	7.00%	7.00%	7.00%	7.00%
Capital Construction	6.63%	3.93%	3.93%	3.93%	3.93%
Energy Costs	8.00%	8.00%	5.00%	5.00%	5.00%
Fuel	20.00%	20.00%	5.00%	5.00%	5.00%
General Costs	6.20%	3.95%	3.95%	3.95%	3.95%
Retirement	5.00%	5.00%	5.00%	5.00%	5.00%
Salaries	5.00%	5.00%	5.00%	5.00%	5.00%
Water Purchases	Pass-Through	Pass-Through	Pass-Through	Pass-Through	Pass-Through

Current Financial Position

Revenues

Based on the forecasting assumptions, fixed revenues were calculated using account data by meter size (**Table 13**) and existing fixed charges (**Table 8** and **Table 9**³). Variable revenues were calculated using existing variable rates (**Table 10** and **Table 11**) and projected total water sales by customer class (

Table 14) and projected usage by pumping zone (Table 15). Table 17 shows the calculated rate revenues through the Rate Setting Period. Table 18 summarizes calculated rate revenues from Table 17 and other operating and non-rate revenues available through the Rate Setting Period with projections rounded to the nearest thousands.

² Capital Construction inflation and General Costs for FY 2024 were increased to 6.63% and 6.2%, respectively, to account for recent increases due to inflation. Outer years reduce to 3.93% and 3.95%, reflecting the 5-year average of the Engineer's News Record – CCI index and the LA Consumer Price Index, respectively. ³ Portola Hills customers do not get charged the WRES fixed charge.

Potable Fixed Revenues		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Meter Flat Rates										
Single-Family	\$	933,912	\$	933,912	\$	933,912	\$	933,912	\$	933,912
Multi-Family		15,188		15,188		15,188		15,188		15,188
Commercial		70,901		70,901		70,901		70,901		70,901
Irrigation		84,188		84,188		84,188		84,188		84,188
Agricultural		8,738		8,738		8,738		8,738		8,738
Portola Hills		134,067		134,067		134,067		134,067		134,067
Total Meter Flat Rates	\$	1,246,993	\$	1,246,993	\$	1,246,993	\$	1,246,993	\$	1,246,993
WRES Fees										
Single-Family	Ś	711 682	Ś	711 682	Ś	711 682	Ś	711 682	Ś	711 682
Multi-Family	Ŷ	11 457	Ŷ	11 457	Ŷ	11 457	Ŷ	11 457	Ŷ	11 457
Commercial		36 713		36 713		36 713		36 713		36 713
		50,052		50,052		50,052		50.052		50,052
Agricultural		3 420		3 420		3 420		3 420		3 420
Portola Hills		0,420		0,420		0		0,420		0
	¢	813 323	¢	813 323	¢	813 323	¢	813 323	¢	813 323
Total WRESTCCS	Ŷ	010,020	7	013,323	<u> </u>	010,020	7	013,323	<u>,</u>	013,323
Variable Revenues		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Single-Family										
Tier 1	\$	868,712	\$	868,712	\$	868,712	\$	868,712	\$	868,712
Tier 2		854,343		854,343		854,343		854,343		854,343
Tier 3		675,670		675,670		675,670		675,670		675,670
Tier 4		371,923		371,923		371,923		371,923		371,923
Single-Family Variable Revenue	\$	2,770,648	\$	2,770,648	\$	2,770,648	\$	2,770,648	\$	2,770,648
Multi-Family	\$	41,417	\$	41,417	\$	41,417	\$	41,417	\$	41,417
Commercial	\$	127,870	\$	127,870	\$	127,870	\$	127,870	\$	127,870
Irrigation	\$	698,469	\$	698,469	\$	698,469	\$	698,469	\$	698,469
Agricultural	\$	589,809	\$	589,809	\$	589,809	\$	589,809	\$	589,809
Portola Hills	\$	161,462	\$	161,462	\$	161,462	\$	161,462	\$	161,462
Total Potable Variable Rate Revenue	\$	4,389,676	\$	4,389,676	\$	4,389,676	\$	4,389,676	\$	4,389,676
Dumping Variable										
	ć		ć		ć		ć		ć	
Zone 1 - Base	Ş	- 0.100	Ş	- 0.100	Ş	- 0.100	Ş	- 0.100	Ş	- 9 100
Zone 2 - Topanga / Saddiecrest		8,199		8,199		8,199		8,199		8,199
		9,500		9,500		9,500		9,500		9,500
Zone 4 - Falcon		5,475		5,475		5,475		5,475		5,475
Zone 5 - Joplin		5,131		5,131		5,131		5,131		5,131
Zone 6 - Portola Hills	<i>*</i>	22,058	<i>c</i>	22,058	<u> </u>	22,058	~	22,058	ć	22,058
lotal variable Pumping Revenue	Ş	50,363	\$	50,363	Ş	50,363	Ş	50,363	Ş	50,363
Total Rate Revenue	\$	6,541,772	\$	6,541,772	\$	6,541,772	\$	6,541,772	\$	6,541,772

Table 17: Water Calculated Rate Revenues



Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues					
Fixed Revenue	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000	\$ 1,247,000
Variable Revenue	4,440,000	4,440,000	4,440,000	4,440,000	4,440,000
WRES Revenue	813,000	813,000	813,000	813,000	813,000
Subtotal Rate Revenues	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000	\$ 6,500,000
Operating Revenues					
Backflow/Fireflow Test	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000	\$ 11,000
Late Charges	143,000	143,000	143,000	143,000	143,000
New Account Fee	2,000	2,000	2,000	2,000	2,000
Standby Charges	46,000	46,000	46,000	46,000	46,000
BTP Water Sales	717,000	717,000	717,000	717,000	717,000
BTP Sales - O&M	225,000	225,000	225,000	225,000	225,000
BTP Sales - Capital	167,000	167,000	167,000	167,000	167,000
Subtotal Operating Revenues	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000	\$ 1,311,000
Non-Operating Revenues					
Uncollectable Accounts	(26,000)	(26,000)	(26,000)	(26,000)	(26,000)
Property Taxes	1,070,000	1,070,000	1,070,000	1,070,000	1,070,000
Other Non-Operating Revenue	59,000	59,000	59,000	59,000	59,000
Interest Revenue	0	0	25,000	16,000	0
Subtotal Non-Operating Revenues	\$ 1,103,000	\$ 1,103,000	\$ 1,128,000	\$ 1,119,000	\$ 1,103,000
Total Revenues	\$ 8,914,000	\$ 8,914,000	\$ 8,939,000	\$ 8,930,000	\$ 8,914,000

Table 18: Water Projected Revenues



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 16. Table 19 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. The projected price of purchased water for FY 2024 is held constant for all years because any increase will be captured through the pass-through provisions of Government Code section 53756 and will be identified within the Proposition 218 notice.

O&M Expenses		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Water Supply Costs										
Fixed Purchased Water Costs										
MWDOC	\$	281,000	\$	281,000	\$	281,000	\$	281,000	\$	281,000
SMWD		16,000		16,000		16,000		16,000		16,000
IRWD		320,000		320,000		320,000		320,000		320,000
Portola Hills		44,000		44,000		44,000		44,000		44,000
Subtotal Fixed Purchased Water Costs	\$	661,000	\$	661,000	\$	661,000	\$	661,000	\$	661,000
Variable Burchased Water Costs										
Paker (PTD)		220.000		220.000		220.000		220.000		220.000
SMWD Treated		320,000		320,000		320,000		320,000		320,000
		905 000		905 000		\$2,000 805.000		905 000		32,000 805.000
Dimonsion (DW/TD)		1 169 000		1 169 000		1 169 000		1 169 000		1 169 000
Dimension (DWTP)		1,108,000		1,108,000		1,108,000		1,108,000		1,108,000
		202,000		202,000		202,000		202,000		202,000
Subtotal Variable Burebased Water Cos	ć	2 260 000	ć	2 260 000	ć	742,000	ć	742,000	ć	2 260 000
Subtotal variable Purchased water Cos	Ş	3,269,000	Ş	3,269,000	Ş	3,269,000	Ş	3,269,000	Ş	3,269,000
Bumping Costs										
T&D Electricity	ć	264 000	ć	285 000	ć	200 000	ć	214 000	ć	220 000
Subtotal Pumping Costs	ې د	264,000	ې خ	285,000	ې د	299,000	ې د	314,000	ې خ	330,000
Subtotal Fullping Costs	ç	204,000	ç	285,000	ç	299,000	Ŷ	514,000	ç	330,000
Water Supply Costs	\$	4,194,000	\$	4,215,000	\$	4,229,000	\$	4,244,000	\$	4,260,000
Operating Expenses										
General and Administrative	\$	1,279,000	\$	1,338,000	\$	1,400,000	\$	1,464,000	\$	1,531,000
Salaries & Benefits		2,878,000		3,036,000		3,203,000		3,379,000		3,565,000
Transmission & Distribution		438,000		465,000		484,000		504,000		524,000
Treatment		284,000		303,000		317,000		331,000		347,000
CalPERS & OPEB		169,000		163,000		152,000		140,000		125,000
Subtotal Operating Expenses	\$	5,048,000	\$	5,305,000	\$	5,556,000	\$	5,818,000	\$	6,092,000
Debt Service										
SRELoan	Ś	230.382	Ś	230.380	Ś	230.380	Ś	230.381	Ś	230.382
Refinancing/Proposed New Debt	Ŧ	397.727	Ŧ	517.455	Ŧ	517.455	Ŧ	517.455	Ŧ	517.455
Subtotal Debt Service	\$	628,109	\$	747,835	\$	747,835	\$	747,836	\$	747,837
Total Expenses	Ś	9.870.109	\$	10.267.835	Ś	10.532.835	Ś	10.809.836	Ś	11.099.837

Table 19: Projected O&M Expenses



Trabuco Canyon WD - Comprehensive Cost-of-Service Utility Rate Study

Reserves

Figure 4: Water Utility Reserves



Provides dedicated funding for specific capital improvements, including wells, reservoirs and

Established reserves include Operating, Capital Replacement, Rate Stabilization, and Emergency, SFR Debt, and WRES. These reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations, cover funding for annual system improvements, and secure outstanding debt obligations. In addition, these reserves help smooth rates and mitigate rate spikes due to emergencies or above-average system costs. The WRES Reserves will be closed, and remaining funds will be transferred to the Operating Reserve. The remaining facilities associated with the WRES dedicated funding are part of this rate cycle's CIP. Table 20 summarizes the minimum reserve requirements and ideal targets of each reserve.

-		(
Reserve	Minimum Requirement	Reserve larget
Unrestricted		
Operating	90 days of operating	180 days of operating
Capital Replacement	Annual CIP based on 5-year average	2 years of CIP based on 5-year average
Rate Stabilization	10% of operating revenue	N/A
Restricted		
WRES	N/A	N/A
SFR Debt	Annual debt payment	N/A

Table 20: Reserve Requirements and Targets

The reserve balance as of July 1, 2022, equaled approximately \$4.0M, excluding the debt reserve.



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 and the noticed rates through FY 2025 will not cover operating expenses. In addition, capital spending towards repair & replacement would require the use of reserves as the primary funding source once the remaining debt proceeds are expended, which is not sustainable. Table 21 forecasts existing revenues and expenses through the Rate Setting Period. Table 22 identifies reserve transfers and reserves activity, with projected FY 2024 starting reserve balances shown for each reserve.



Revenue		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Rate Revenues										
Fixed Revenue	\$	1,247,000	\$	1,247,000	\$	1,247,000	\$	1,247,000	\$	1,247,000
Variable Revenue Table 18		4,440,000		4,440,000		4,440,000		4,440,000		4,440,000
WRES Revenue		813,000		813,000		813,000		813,000		813,000
Total Rate Revenues	\$	6,500,000	\$	6,500,000	\$	6,500,000	\$	6,500,000	\$	6,500,000
Operating Revenues										
Backflow/Fireflow Test	\$	11,000	\$	11,000	\$	11,000	\$	11,000	\$	11,000
Late Charges		143,000		143,000		143,000		143,000		143,000
New Account Fee		2,000		2,000		2,000		2,000		2,000
Standby Charges Table 18		46,000		46,000		46,000		46,000		46,000
BTP Water Sales		717,000		717,000		717,000		717,000		717,000
BTP Sales - O&M		225,000		225,000		225,000		225,000		225,000
BTP Sales - Capital	-	167,000	_	167,000	_	167,000	_	167,000	-	167,000
Subtotal Operating Revenues	Ş	1,311,000	Ş	1,311,000	Ş	1,311,000	Ş	1,311,000	Ş	1,311,000
Non-Operating Revenues										
Supplemental Water DIF	\$	-	\$	-	\$	-	\$	-	\$	-
Uncollectable Accounts Table 18		(26,000)		(26,000)		(26,000)		(26,000)		(26,000)
Property Taxes		1,070,000		1,070,000		1,070,000		1,070,000		1,070,000
Other Non-Operating Revenue	ć	59,000	ć	59,000	ć	59,000	ć	59,000	ć	59,000
	\$ 	1,103,000	د د	1,103,000	ې 	1,103,000	ې م	1,103,000	\$ 	1,103,000
lotal Revenues	\$	8,914,000	\$	8,914,000	\$	8,914,000	\$	8,914,000	\$	8,914,000
O&M Expenses		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Water Supply Costs										
	ć	281 000	ć	291 000	ć	281 000	ć	281 000	ć	281 000
NIWDOC SMM/D	Ş	16,000	Ş	16 000	Ş	281,000	Ş	281,000	Ş	281,000
Table 19		320,000		320,000		320,000		320,000		320,000
Portola Hills		44 000		44 000		44 000		44.000		44 000
Subtotal Fixed Purchased Water Costs	\$	661,000	\$	661,000	\$	661,000	\$	661,000	\$	661,000
Variable Purchased Water Costs										
Baker (BTP)		320.000		320.000		320.000		320.000		320.000
SMWD - Treated		320,000		32 000		32 000		32 000		32 000
IRWD - Treated Table 19		805.000		805.000		805.000		805.000		805.000
Dimension (DWTP)		1 168 000		1 168 000		1 168 000		1 168 000		1 168 000
Portola Hills		202.000		202.000		202.000		202.000		202.000
Water Sales - BTP		742.000		742.000		742.000		742.000		742.000
Subtotal Variable Purchased Water Costs	\$	3,269,000	\$	3,269,000	\$	3,269,000	\$	3,269,000	\$	3,269,000
Pumping Costs										
T&D - Electricity Table 19	Ś	264.000	Ś	285.000	Ś	299.000	Ś	314.000	Ś	330.000
Subtotal Pumping Costs	\$	264,000	\$	285,000	\$	299,000	\$	314,000	\$	330,000
Water Supply Costs	Ś	4.194.000	Ś	4.215.000	Ś	4,229,000	Ś	4,244,000	Ś	4,260,000
	7	.,,000	7	.,_10,000	7	.,,0000	7	.,,0000	7	.,
General and Administrative	ć	1 270 000	ć	1 220 000	ć	1 400 000	ć	1 464 000	ć	1 521 000
Seleries & Repetits	Ş	1,2/9,000	Ş	1,238,UUU 2 026 000	Ş	2 202 000	Ş	2 270 000	Ş	1,331,000
Jaianes & Denemission & Distribution Table 10		2,010,000 130 000		3,030,000		3,203,000		5,579,000		5,305,000
		458,000 284.000		405,000 202 000		484,000		304,000		3/7 000
		204,000 160 000		163 000		152 000		1/0 000		125 000
		109,000	ć	5 305 000	\$	5,556,000	\$	5,818,000	\$	6,092,000
Subtotal Operating Expenses	\$	5,048,000	÷	3,303,000					-	
Subtotal Operating Expenses	\$	5,048,000	Ŷ	3,303,000					·	
Subtotal Operating Expenses Debt Service SRELoan	\$ ¢	230 382	ب ذ	2,203,000	ć	220 280	ć	220 281	ć	<u> </u>
Subtotal Operating Expenses Debt Service SRF Loan Credit line Table 19	\$ \$	5,048,000 230,382 101 500	, \$	230,380	\$	230,380	\$	230,381	\$	230,382
Subtotal Operating Expenses Debt Service SRF Loan Credit Line Refinancing/Proposed New Debt Table 19	\$ \$	5,048,000 230,382 101,500 397 727	,	230,380 50,750 517 455	\$	230,380 - 517 455	\$	230,381 - 517 455	\$	230,382 - 517 455
Subtotal Operating Expenses Debt Service SRF Loan Credit Line Refinancing/Proposed New Debt Subtotal Debt Service	\$ \$ \$	5,048,000 230,382 101,500 397,727 729,609	\$ \$ \$	230,380 50,750 517,455 798,585	\$ \$	230,380 - 517,455 747,835	\$ \$	230,381 - 517,455 747,836	\$ \$ \$	230,382 - 517,455 747,837
Subtotal Operating Expenses Debt Service SRF Loan Credit Line Refinancing/Proposed New Debt Subtotal Debt Service Total Expenses	\$ \$ \$	5,048,000 230,382 101,500 397,727 729,609 9,971.609	\$ \$ \$	230,380 50,750 517,455 798,585	\$ \$ \$	230,380 - 517,455 747,835 10,532,835	\$ \$ \$	230,381 - 517,455 747,836 10,809.836	\$ \$ \$	230,382 - 517,455 747,837 11,099.837

Table 21: Water Financial Plan at Existing Rates



Transfers		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Net Cashflow	\$	(1,057,609)	\$	(1,404,585)	\$	(1,618,835)	\$	(1,895,836)	\$	(2,185,837)
Transfers to Reserves										
Water Storage DIF		\$0		\$0		\$1,051,427		\$0		\$0
WRES - Wells		1,629,973		0		0		0		0
WRES - Res/DIST		2,676,069		0		0		0		0
Subtotal Transfers to Reserves		\$4,306,041		\$0		\$1,051,427		\$0		\$0
Net Cashflow (after Transfers)	\$	3,248,432	\$	(1,404,585)	\$	(567,408)	\$	(1,895,836)	\$	(2,185,837)
Operating Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	(1,936,270)	\$	1,312,161	\$	(92,423)	\$	(659,831)	\$	(2,555,667)
Transfers (Net Cashflow)		3,248,432		(1,404,585)		(567,408)		(1,895,836)		(2,185,837)
Transfers from/(to) Capital Reserve		-		-		-		-		-
Ending Balance	\$	1,312,161	\$	(92,423)	\$	(659,831)	\$	(2,555,667)	\$	(4,741,503)
Capital Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	328,403	\$	2,010,989	\$	(786,870)	\$	(4,775,416)	\$	(8,184,555)
Plus:										
Use of Existing Debt Proceeds		2,947,600		-		-		-		-
Less:										
CIP		(1,288,176)		(2,797,858)		(3,988,546)		(3,409,139)		(1,717,060)
Transfers from/(to) Water Rate Stabilization		-		-		-		-		-
Subtotal Capital Reserve	\$	1,987,826	\$	(786,870)	\$	(4,775,416)	\$	(8,184,555)	\$	(9,901,615)
Interest Earnings	_	23,162	-	-		-	_	-	-	-
Ending Balance	Ş	2,010,989	Ş	(786,870)	Ş	(4,775,416)	Ş	(8,184,555)	Ş	(9,901,615)
Water Rate Stabilization Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	-	\$	-	\$	-	\$	-	\$	-
Transfers from/(to) Capital Reserve		-		-		-		-		-
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	-
Ending Unrestricted Reserves Balance	\$	3,323,150	\$	(879,293)	\$	(5,435,247)	\$	(10,740,222)	\$	(14,643,118)
Restricted Reserves										
Water Storage DIE		EV 2024		EV 2025		EV 2026		EV 2027		EV 2028
Reginning Balance	ć	1 051 427	ć	1 051 427	ć	1 051 427	ć	112021	¢	112020
Direct Transfer	Ç	1,031,427	ڔ	1,051,427	ڔ	(1 051 427)	Ļ	_	Ļ	-
Ending Balance	\$	1,051,427	\$	1,051,427	\$	-	\$	-	\$	-
W/DES Wolls		EV 2024		EV 2025		EV 2026		EV 2027		EV 2029
VVRES - VVelis	4	FT 2024	4	F 1 2025	ć	F I 2020	ć	F12021	<u>د</u>	F I 2020
Beginning Balance	Ş	1,629,973	Ş	-	Ş	-	Ş	-	Ş	-
	ć	(1,029,975)	ć		ć		ć		ć	
	Ŷ		<i>,</i>	_	Ŷ	_	Ŷ		Ŷ	
WRES - Res/Dist		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	2,676,069	\$	-	\$	-	\$	-	\$	-
Direct Transfer	-	(2,676,069)	-	-	-	-	_	-	-	-
Ending Balance	\$	-	Ş	-	Ş	-	Ş	-	Ş	
SRF Loan		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	236,996	\$	236,996	\$	236,996	\$	236,996	\$	236,996
Direct Transfer		-		-		-		-		-
Subtotal SRF Loan	\$	236,996	\$	236,996	\$	236,996	\$	236,996	\$	236,996
Release of Final Debt Payment		-		-		-		-		-
Ending Balance		\$236,996		\$236,996		\$236,996		\$236,996		\$236,996

Table 22: Water – Transfers and Reserve Activity at Existing Rates



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.





With capital spending of \$13.2M over the Rate Setting Period, as shown in Figure 2, reserves would be depleted and there would be no capital funding available by FY 2025. Figure 6 reflects the projected ending balances of undesignated reserves after funding operating and capital projects. Undesignated reserves include Operating, Replacement, Rate Stabilization, and the release of WRES 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 \$24.2M 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 23 forecasts projected revenues, *with annual revenue adjustments*, and expenses through FY 2028, including \$10M in proposed debt that converts the existing short-term debt of \$7M to long-term debt plus an additional \$3M in new proceeds. Table 24 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 23, transfers between reserves, use of capacity fees, and annual CIP), and projected ending balances for each fiscal year of the Rate Setting Period.



Revenue					FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Rate Revenu	Jes												
Fixed Reven	iue			\$	1,247,000	\$	1,247,000	\$	1,247,000	\$	1,247,000	\$	1,247,000
Variable Re	venue		Table 18		4,440,000		4,440,000		4,440,000		4,440,000		4,440,000
WRES Rever	nue				813,000		813,000		813,000		813,000		813,000
Total Rate R	Revenues			\$	6,500,000	\$	6,500,000	\$	6,500,000	\$	6,500,000	\$	6,500,000
Additional R	levenue (from	revenue adjus	tments):										
Fiscal Year	Revenue	Effective											
	Adjustment	Month											
FY 2024	22.0%	July			1,430,000		1,430,000		1,430,000		1,430,000		1,430,000
FY 2025	18.0%	July					1,427,000		1,427,000		1,427,000		1,427,000
FT 2026	10.0%	July							1,684,000		1,684,000		1,684,000
FY 2027	10.0%	July									1,104,000		1 214 000
Total Addition	nal Revenue	July		\$	1,430,000	\$	2,857,000	\$	4,541,000	\$	5,645,000	\$	6,859,000
Projected Ra	ate Revenues	;		\$	7,930,000	\$	9,357,000	\$	11,041,000	\$	12,145,000	\$	13,359,000
Operating R	evenues												
Backflow/Fi	reflow Test			Ś	11.000	Ś	11.000	Ś	11.000	Ś	11.000	Ś	11.000
Late Charge	s			Ŧ	143,000	Ŧ	143,000	Ŧ	143,000	Ŧ	143,000	Ŧ	143,000
New Accour	nt Fee				2,000		2,000		2,000		2,000		2,000
Standby Cha	arges		Table 18		46,000		46,000		46,000		46,000		46,000
BTP Water S	Sales				717,000		717,000		717,000		717,000		717,000
BTP Sales - (0&M				225,000		225,000		225,000		225,000		225,000
BTP Sales - (Capital				167,000		167,000		167,000		167,000		167,000
Subtotal O	perating Rev	enues		\$	1,311,000	\$	1,311,000	\$	1,311,000	\$	1,311,000	\$	1,311,000
Non-Operati	ing Revenues												
Supplement	al Water DIF			\$	-	\$	-	\$	-	\$	-	\$	-
Uncollectab	le Accounts		Table 18		(26,000)		(26,000)		(26,000)		(26,000)		(26,000)
Property Ta:	xes		Table 10		1,070,000		1,070,000		1,070,000		1,070,000		1,070,000
Other Non-O	Operating Reve	nue			59,000		59,000		59,000		59,000		59,000
Subtotal N	on-Operating	g Revenues		\$	1,103,000	\$	1,106,000	\$	1,149,000	\$	1,151,000	\$	1,152,000
Total Reven	ues			\$:	L0,344,000	\$	11,774,000	\$	13,501,000	\$	14,607,000	\$	15,822,000
O&M Expe	nses				FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Water Suppl	ly Costs												
Water Suppl Fixed Purc	ly Costs hased Water	Costs											
Water Suppl Fixed Purc MWDOC	ly Costs hased Water	Costs		\$	281,000	\$	281,000	\$	281,000	\$	281,000	\$	281,000
Water Suppl Fixed Purc MWDOC SMWD	ly Costs hased Water	Costs	Table 19	\$	281,000 16,000	\$	281,000 16,000	\$	281,000 16,000	\$	281,000 16,000	\$	281,000 16,000
Water Suppl Fixed Purc MWDOC SMWD IRWD	ly Costs hased Water	Costs	Table 19	\$	281,000 16,000 320,000	\$	281,000 16,000 320,000	\$	281,000 16,000 320,000	\$	281,000 16,000 320,000	\$	281,000 16,000 320,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi	ly Costs hased Water	Costs	Table 19	\$	281,000 16,000 320,000 44,000	\$	281,000 16,000 320,000 44,000	\$	281,000 16,000 320,000 44,000	\$	281,000 16,000 320,000 44,000	\$	281,000 16,000 320,000 44,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi	ly Costs hased Water IIs ixed Purchase	Costs ed Water Co	Table 19 sts	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P	ly Costs hased Water IIs ixed Purchase urchased Wa	Costs ed Water Co ter Costs	Table 19 sts	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD	ly Costs hased Water IIs ixed Purchase urchased Wa	Costs ed Water Co ter Costs	Table 19 sts	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000	\$ \$	281,000 16,000 320,000 44,000 661,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B	ly Costs hased Water IIs ixed Purchase urchased Wa	Costs ed Water Co ter Costs	Table 19 sts	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD -	ly Costs hased Water lls ixed Purchase urchased Wa BTP) Treated	Costs ed Water Co ter Costs	Table 19 sts	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - C	ly Costs hased Water lls ixed Purchase urchased Wa BTP) Treated Treated	Costs ed Water Co ter Costs	Table 19 sts Table 19	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - Dimensi	ly Costs hased Water lis ixed Purchase rurchased Wa strp) Treated Treated on (DWTP)	Costs ed Water Co iter Costs	Table 19 sts Table 19	\$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000	\$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000 1,168,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000 1,168,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000 1,168,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - Dimensi Portola Hi	ly Costs thased Water IIs ixed Purchase vurchased Wa STP) Treated Treated on (DWTP) IIs or DTD	Costs ed Water Co ter Costs	Table 19 sts Table 19	\$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000	\$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 743,000	\$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000 1,168,000 202,000 743,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sal	ly Costs hased Water lis ixed Purchase vurchased Wa BTP) Treated Treated on (DWTP) lls es - BTP ariable Purch	Costs ed Water Co ter Costs	Table 19 sts Table 19	\$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000 7 42,000 3 269,000	\$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000 3 269,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 3 269,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V	ly Costs hased Water lis ixed Purchase urchased Wa BTP) Treated Treated on (DWTP) lls es - BTP ariable Purch	Costs ed Water Co iter Costs nased Water	Table 19 sts Table 19 Costs	\$ \$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sali Subtotal V Pumping C	ly Costs hased Water lis ixed Purchase vurchased Wa BTP) Treated on (DWTP) lis es - BTP ariable Purch Costs costs	Costs ed Water Co ter Costs	Table 19 sts Table 19 Costs	\$ \$ \$	281,000 16,000 320,000 44,000 661,000 320,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$ \$	281,000 16,000 320,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000	\$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sali Subtotal V Pumping C T&D - Elec Subtotal P	ly Costs hased Water lis ixed Purchased urchased Wa BTP) Treated on (DWTP) lis es - BTP ariable Purch Costs etricity umping Costs	Costs ed Water Co ter Costs	Table 19 sts Table 19 Costs Table 19	\$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000	\$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 285,000 285,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000	\$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 30,000 330,000 330,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal P	ly Costs hased Water lis ixed Purchased urchased Wa BTP) Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs	Costs ed Water Co ter Costs nased Water	Table 19 sts Table 19 Costs Table 19	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 285,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal P	ly Costs hased Water lis ixed Purchased urchased Wa BTP) Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs	Costs ed Water Co ter Costs hased Water	Table 19 sts Table 19 Costs Table 19	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 314,000 4,244,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 4,260,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal Pi Water Suppl Operating E	ly Costs hased Water lis ixed Purchased urchased Wa BTP) Treated Treated Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses	Costs ed Water Co ter Costs	Table 19 sts Table 19 Costs Table 19	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 320,000 805,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000	\$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 4,260,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and	ly Costs thased Water lise lixed Purchased treated Treated Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ	Costs ed Water Co ter Costs nased Water	Table 19 sts Table 19 Costs Table 19	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000 1,338,000	\$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 1,400,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 1,464,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 4,260,000 1,531,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B	ly Costs thased Water lis ixed Purchased turchased Water treated Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ Senefits a con tricity	Costs ed Water Co ter Costs nased Water	Table 19 sts Table 19 Costs Table 19	\$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 661,000 320,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000 1,338,000 3,036,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 1,400,000 3,203,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 1,464,000 3,379,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 4,260,000 1,531,000 3,565,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio	ly Costs thased Water lised Purchased furchased Water treated on (DWTP) lises - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ benefits in & Distributio	Costs ed Water Co iter Costs nased Water	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000 438,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000 1,338,000 3,036,000 465,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 1,400,000 3,203,000 484,000 3,217,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 1,464,000 3,379,000 504,000 321,000	\$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 4,260,000 1,531,000 3,565,000 524,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Subtotal Fi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - Dimensi Portola Hi Water Salu Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment	ly Costs hased Water lis ixed Purchased urchased Wa arreated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ senefits in & Distributio DPFB	Costs ed Water Co iter Costs nased Water	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000 438,000 284,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000 1,338,000 3,036,000 465,000 303,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000	\$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 1,464,000 3,379,000 504,000 331,000	\$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 330,000 330,000 4,260,000 1,531,000 3,565,000 524,000 347,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - IRWD - IRWD - Dimensi Portola Hi Water Sal Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment CalPERS & C	ly Costs thased Water lis lixed Purchased urchased Water urchased Water urchased Water treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ benefits in & Distributio DPEB erating Expen	Costs ed Water Co iter Costs nased Water	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000 438,000 284,000 5,048,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 3,269,000 4,215,000 1,338,000 3,036,000 465,000 5,305,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 5,556,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 1,464,000 3,379,000 504,000 331,000 5,818,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 4,260,000 1,531,000 3,565,000 524,000 347,000 125,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - IRWD - Dimensi Portola Hi Water Salu Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment CalPERS & C	ly Costs thased Water lis lixed Purchased urchased Water urchased Water urchased Water Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ benefits in & Distributio DPEB erating Expented	Costs ed Water Co iter Costs nased Water s e n n ses	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000 438,000 284,000 5,048,000	\$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 3,269,000 4,215,000 1,338,000 3,036,000 465,000 163,000 5,305,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 152,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 1,464,000 3,379,000 504,000 331,000 5,818,000	\$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 330,000 4,260,000 1,531,000 3,565,000 524,000 347,000 125,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Subtotal Fi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - Dimensi Portola Hi Water Sale Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment CalPERS & C Subtotal Ope	ly Costs thased Water lis ixed Purchased urchased Wa arreated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ Benefits in & Distributio DPEB erating Expen	Costs ed Water Co iter Costs nased Water	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000 438,000 284,000 5,048,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 3,269,000 4,215,000 1,338,000 3,036,000 465,000 5,305,000 5,305,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 152,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 314,000 1,464,000 3,379,000 504,000 331,000 140,000 5,818,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 330,000 330,000 1,531,000 3,565,000 524,000 347,000 125,000 6,092,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Subtotal Fi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - Dimensi Portola Hi Water Sale Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment CalPERS & C Subtotal Op Debt Service SRF Loan Credit Line	ly Costs thased Water lis lixed Purchased urchased Water urchased Water urchased Water urchased Water lister es - BTP ariable Purch Costs costs costs costs costs costs costs ly Costs xpenses d Administrativ Benefits an & Distributio DPEB erating Expenses	Costs ed Water Co iter Costs nased Water	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 4,194,000 1,279,000 2,878,000 438,000 284,000 5,048,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 285,000 4,215,000 1,338,000 3,036,000 465,000 303,000 163,000 5,305,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 299,000 4,229,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 152,000 5,556,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 4,244,000 3,379,000 504,000 331,000 140,000 5,818,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 330,000 330,000 4,260,000 1,531,000 3,565,000 524,000 347,000 125,000 6,092,000
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (E SMWD - IRWD -	ly Costs hased Water lis ixed Purchase rurchased Wa BTP) Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ senefits n & Distributio DPEB erating Expen e /Proposed New	Costs ed Water Co ter Costs nased Water s e n nses v Debt	Table 19 sts Table 19 Costs Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 3,269,000 2,64,000 4,194,000 1,279,000 2,878,000 4,38,000 284,000 5,048,000 5,048,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 3,269,000 4,215,000 1,338,000 3,036,000 465,000 30,300 163,000 5,305,000 230,380 50,750 739,221	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 3,269,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 152,000 5,556,000	\$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 314,000 314,000 314,000 1,464,000 3,379,000 504,000 331,000 140,000 5,818,000 - 739,221	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 330,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 347,000 357,000 357,000 357,000 357,000 357,000 357
Water Suppl Fixed Purc MWDOC SMWD IRWD Subtotal Fi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - Dimensi Portola Hi Water Sale Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment CalPERS & C Subtotal Op Debt Service SRF Loan Credit Line Refinancing Subtotal Debt	ly Costs thased Water lis lixed Purchased urchased Wa BTP) Treated Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrativ Benefits an & Distributio DPEB erating Expen e /Proposed New bt Service	Costs ed Water Co ter Costs nased Water	Table 19 sts Table 19 Costs Table 19 Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 2,64,000 4,194,000 1,279,000 2,878,000 4,38,000 2,878,000 5,048,000 5,048,000 5,048,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 3,269,000 4,215,000 4,215,000 1,338,000 3,036,000 465,000 30,300 5,305,000 230,380 50,750 739,221 1,020,351	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 4,229,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 152,000 5,556,000 - 230,380 - 739,221 969,601	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 314,000 4,244,000 1,464,000 3,379,000 504,000 331,000 140,000 5,818,000 230,381 - 739,221 969,602	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 330,000 330,000 4 ,260,000 1,531,000 3,565,000 524,000 347,000 125,000 6,092,000 - 230,382 - 739,221 969,603
Water Suppl Fixed Purc MWDOC SMWD IRWD Portola Hi Subtotal Fi Variable P TCWD Baker (B SMWD - IRWD - Dimensi Portola Hi Water Salu Subtotal V Pumping C T&D - Elec Subtotal P Water Suppl Operating E General and Salaries & B Transmissio Treatment CalPERS & C Subtotal Op Debt Servica SRF Loan Credit Line Refinancing Subtotal Del Total Expensi	ly Costs thased Water lis lixed Purchased urchased Water urchased Water urchased Water urchased Water Treated on (DWTP) lis es - BTP ariable Purch Costs ctricity umping Costs ly Costs xpenses d Administrative senefits in & Distributio DPEB erating Experi e /Proposed New bt Service ses	Costs ed Water Co ter Costs nased Water s e n nses v Debt	Table 19 sts Table 19 Costs Table 19 Table 19 Table 19	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 264,000 2,878,000 4,194,000 1,279,000 2,878,000 4,38,000 284,000 5,048,000 5,04	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 32,000 1,168,000 202,000 742,000 3,269,000 3,269,000 4,215,000 4,215,000 1,338,000 3,036,000 465,000 3,036,000 45,000 5,305,000 5,305,000 230,380 50,750 739,221 1,020,351 10,540,351	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 299,000 4,229,000 4,229,000 1,400,000 3,203,000 484,000 317,000 152,000 5,556,0000 230,380 -739,221 969,601	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 742,000 3,269,000 314,000 314,000 4,244,000 3,379,000 504,000 331,000 5,818,000 230,381 - 739,221 969,602 11,031,602	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	281,000 16,000 320,000 44,000 661,000 32,000 805,000 1,168,000 202,000 3,269,000 3,269,000 3,30,000 4,260,000 1,531,000 3,565,000 524,000 3,565,000 524,000 4,260,000 6,092,000 6,092,000

Table 23: Proposed Water Financial Plan

Transfers		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Net Cashflow	\$	201,936	\$	1,233,649	\$	2,746,399	\$	3,575,398	\$	4,500,397
Transfers to Reserves										
Water Storage DIF		\$0		\$0		\$1,051,427		\$0		\$0
WRES - Wells		1,629,973		0		0		0		0
WRES - Res/DIST		2,676,069		0		0		0		0
Subtotal Transfers to Reserves		\$4,306,041		Ş0		\$1,051,427		\$0		\$0
Net Cashflow (after Transfers)	\$	4,507,977	\$	1,233,649	\$	3,797,826	\$	3,575,398	\$	4,500,397
Operating Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	(1,936,270)	\$	2,278,849	\$	2,347,397	\$	2,412,740	\$	2,481,041
Transfers (Net Cashflow)		4,507,977		1,233,649		3,797,826		3,575,398		4,500,397
Transfers from/(to) Capital Reserve		(292,857)	-	(1,165,101)	-	(3,732,484)	_	(3,507,097)	-	(4,428,890)
Ending Balance	Ş	2,278,849	Ş	2,347,397	Ş	2,412,740	Ş	2,481,041	Ş	2,552,548
Capital Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	328,403	\$	5,336,775	\$	3,794,426	\$	3,611,691	\$	3,782,862
<u>Plus:</u>										
Transfers from/(to) Operating Reserve		292,857		1,165,101		3,732,484		3,507,097		4,428,890
New Debt Proceeds		3,000,000		0		0		0		0
Use of Capacity Fees		0		0		0		0		0
Capital Contributions		0		0		0		0		0
Grant Revenue		0		0		0		0		0
Supplemental Water DIF		0		0		0		0		0
Use of Existing Debt Proceeds		2,947,600		-		-		-		-
<u>Less.</u>		(1 200 176)		(2 707 050)		(2 000 546)		(2 100 120)		(1 717 060)
CIF Transfors from //to) Water Pate Stabilization Reserve		(1,200,170)		(2,797,838)		(3,988,940)		(3,409,139)		(1,/1/,000)
Subtotal Capital Receive	ć	5 280 684	¢	3 704 018	ć	3 538 363	ć	3 709 648	ć	5 040 076
Interest Farnings	Ļ	56 091	Ļ	90 408	Ļ	73 328	Ļ	73 213	Ļ	88 229
Ending Balance	\$	5,336,775	\$	3,794,426	\$	3,611,691	\$	3,782,862	\$	5,128,305
Water Rate Stabilization Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	-	\$	-	\$	-	\$	-	\$	-
Transfers from/(to) Capital Reserve		-		-		-		-		1,454,616
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	1,454,616
Ending Unrestricted Reserves Balance	\$	7,615,624	\$	6,141,823	\$	6,024,430	\$	6,263,903	\$	9,135,469
Restricted Reserves										
Water Storage DIE		EV 2024		EV 2025		EV 2026		EV 2027		EV 2028
Reginning Balance	ć	1 051 /27	ć	1 051 427	ć	1 051 427	ć	112021	ć	112020
Direct Transfer	Ŷ	1,031,427	Ŷ		Ŷ	(1.051.427)	Ŷ	-	Ŷ	-
Ending Balance	\$	1,051,427	\$	1,051,427	\$	-	\$	-	\$	-
WRES - Wells		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	1,629,973	\$	-	\$	-	\$	-	\$	-
Direct Transfer		(1,629,973)		-		-		-		-
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	-
WRES - Res/Dist		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	2,676,069	\$	-	\$	-	\$	-	\$	-
Direct Transfer		(2,676,069)		-		-		-		-
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	-
SRF Loan		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	236,996	\$	236,996	\$	236,996	\$	236,996	\$	236,996
Direct Transfer	ć	-	ç	-	ć	-	ć	-	ć	-
Release of Final Neht Payment	Ş	230,990								
Ending Balance		\$236.996		\$236.996		\$236.996		\$236,996		\$236.996

Table 24: Water – Transfers and Reserves Activity through FY 2028



Trabuco Canyon WD - Comprehensive Cost-of-Service Utility Rate Study

The operating position based on the proposed financial plan is identified in Figure 7, including debt service coverage. Figure 8 and Figure 9 show the capital plan with funding sources 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, allocates costs proportionately to each parcel served by the District and derives water rates that adheres to the cost-of-service provisions of Proposition 218.

It is important to understand **how** costs are incurred 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 25 and represent the revenue required from rates over the Rate Setting Period.



	FY 2024 FY 2025			FY 2025	FY 2026	FY 2027	FY 2028		
Revenue Requirements		Total		Total	Total	Total		Total	
Water Supply Costs									
Fixed Purchased Water Costs									
MWDOC	\$	281,000	\$	281,000	\$ 281,000	\$ 281,000	\$	281,000	
SMWD		16,000		16,000	16,000	16,000		16,000	
IRWD		320,000		320,000	320,000	320,000		320,000	
Portola Hills		44,000		44,000	44,000	44,000		44,000	
Variable Purchased Water Costs									
TCWD									
Baker (BTP)		320,000		320,000	320,000	320,000		320,000	
SMWD - Treated		32,000		32,000	32,000	32,000		32,000	
IRWD - Treated		805,000		805,000	805,000	805,000		805,000	
Dimension (DWTP)		1,168,000		1,168,000	1,168,000	1,168,000		1,168,000	
Portola Hills		202,000		202,000	202,000	202,000		202,000	
Water Sales - BTP		742,000		742,000	742,000	742,000		742,000	
Pumping Costs									
T&D - Electricity		264,000		285,000	299,000	314,000		330,000	
Total Water Supply Costs	\$	4,194,000	\$	4,215,000	\$ 4,229,000	\$ 4,244,000	\$	4,260,000	
Operating Expenses									
General and Administrative	\$	1,279,000	\$	1,338,000	\$ 1,400,000	\$ 1,464,000	\$	1,531,000	
Salaries & Benefits		2,878,000		3,036,000	3,203,000	3,379,000		3,565,000	
Transmission & Distribution		438,000		465,000	484,000	504,000		524,000	
Treatment		284,000		303,000	317,000	331,000		347,000	
CalPERS & OPEB		169,000		163,000	152,000	140,000		125,000	
Total Operating Expenses	\$	5,048,000	\$	5,305,000	\$ 5,556,000	\$ 5,818,000	\$	6,092,000	
Debt Service									
SRF Loan	\$	230,382	\$	230,380	\$ 230,380	\$ 230,381	\$	230,382	
Credit Line		101,500		50,750	-	-		-	
Refinancing/Proposed New Debt		568,182		739,221	739,221	739,221		739,221	
Total Debt Service	\$	900,064	\$	1,020,351	\$ 969,601	\$ 969,602	\$	969,603	
Other Funding									
Revenue Offsets									
Operating Revenues		(202,000)		(202,000)	(202,000)	(202,000)		(202,000)	
BTP Sales		(1,109,000)		(1,109,000)	(1,109,000)	(1,109,000)		(1,109,000)	
Non-Operating Revenues		(1,103,000)		(1,106,000)	(1,149,000)	(1,151,000)		(1,152,000)	
Subtotal Revenue Offsets	\$	(2,414,000)	\$	(2,417,000)	\$ (2,460,000)	\$ (2,462,000)	\$	(2,463,000)	
Adjustments									
Reserve Funding	\$	201,936	\$	1,233,649	\$ 2,746,399	\$ 3,575,398	\$	4,500,397	
Subtotal Adjustments	\$	201,936	\$	1,233,649	\$ 2,746,399	\$ 3,575,398	\$	4,500,397	
Total Other Funding	\$	(2,212,064)	\$	(1,183,351)	\$ 286,399	\$ 1,113,398	\$	2,037,397	
Revenue Requirement from Rates	\$	7,930,000	\$	9,357,000	\$ 11,041,000	\$ 12,145,000	\$	13,359,000	

Table 25: Water Revenue Requirements

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



Fixed Purchased Water – Fixed monthly water supply costs incurred by the District from its water wholesalers.

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

Water Supplies - variable costs related to the District's four water supplies.

Portola Hills – A subsection of the District's service area that allows specific costs allocations to the area.

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.

Treatment – Treatment costs associated with water from the Dimension water treatment plant.

Pumping – Energy costs incurred to pump water to the five elevation zones.

Allocate Expenses to Cost Components

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



O&M Expense Categories:

Fixed Purchased Water Costs: Fixed charges from the various water supplies of the District that are incurred irrespective of water usage.

Variable Purchased Water Costs: Variable charges from the various water supplies of the District that vary with total water demand.

Pumping: Energy costs to pump water to higher elevations.

General and Administrative: Administrative expenses associated with the District as a whole, including office supplies, insurance, financial services, legal, professional services, and other miscellaneous expenses. *General and Administrative:* Personnel costs of the District

Transmission & Distribution: Costs associated with the daily operation of the water system and related facilities, including capital outlay, lab testing, fuel, tools, and vehicles.

Treatment: Costs associated with the treatment of water from the District's treatment plant, including energy, chemicals, and repairs & maintenance.

CaIPERS & OPEB: Retirement related obligations of the District.

Table 26 summarizes the percent allocation of water supply costs to the water supply cost components. Table 27 reflects the dollars to each cost component based on the percent allocations in Table 26. All the fixed charges are allocated to the Fixed Purchased Water cost component and each variable water supply expense is allocated 100% to its respective water supply cost component to clearly identify the variable cost of each water supply and provide the ability to develop unit rates for each. Pumping costs is also included and allocated between Delivery and Pumping cost components. The amount of electricity costs to pump water to the surface level was allocated to Delivery (96%) with the remainder of 4% allocated to Pumping, which is the costs incurred to pump water to the higher elevations.

Water Supply Costs	Methodology / Allocation Basis	Fixed Purchased Water	Baker (BTP)	SMWD - Treated	IRWD - Treated	Dimension (DWTP)	Portola Hills	Delivery	Pumping	Total
Fixed Purchased Water Costs										
MWDOC	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
SMWD	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
IRWD	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Portola Hills	Specific	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Variable Purchased Water Costs										
TCWD										
IRWD - Untreated	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Baker (BTP)	Specific	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
SMWD - Treated	Specific	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
IRWD - Treated	Specific	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100%
Dimension (DWTP)	Specific	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100%
Portola Hills	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100%
Water Sales - BTP	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100%
Pumping Costs								_		
T&D - Electricity	Specific	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	96.0%	4.0%	100%

Table 26: Water Supply and Pumping Expense Allocation to Cost Components (%)



Water Supply Costs	Methodology / Allocation Basis	Fixed Purchased Water	Baker (BTP)	SMWD - Treated	IRWD - Treated	Dimension (DWTP)	Portola Hills	Delivery	Pumping	Total
Fixed Purchased Water Costs										
MWDOC	Specific	\$ 281,000	\$-	\$ -	\$-	\$-	\$-	\$-	\$-	\$ 281,000
SMWD	Specific	16,000	0	0	0	0	0	0	0	16,000
IRWD	Specific	320,000	0	0	0	0	0	0	0	320,000
Portola Hills	Specific	44,000	0	0	0	0	0	0	0	44,000
Variable Purchased Water Costs										
TCWD										
IRWD - Untreated	Specific	0	0	0	0	0	0	0	0	0
Baker (BTP)	Specific	0	320,000	0	0	0	0	0	0	320,000
SMWD - Treated	Specific	0	0	32,000	0	0	0	0	0	32,000
IRWD - Treated	Specific	0	0	0	805,000	0	0	0	0	805,000
Dimension (DWTP)	Specific	0	0	0	0	1,168,000	0	0	0	1,168,000
Portola Hills	Specific	0	0	0	0	0	202,000	0	0	202,000
Water Sales - BTP	Specific	0	0	0	0	0	0	742,000	0	742,000
Pumping Costs										
T&D - Electricity	Specific	0	0	0	0	0	0	253,445	10,555	264,000
Total Allocation (\$)		\$ 661,000	\$ 320,000	\$ 32,000	\$ 805,000	\$ 1,168,000	\$ 202,000	\$ 995,445	\$ 10,555	\$ 4,194,000

Table 27: Water Supply and Pumping Expense Allocation to Cost Components (\$)

Table 28 summarizes the percent allocation of O&M revenue requirements to the cost components, and Table 29 uses the percent allocations in Table 28 to allocate expenses in dollars to each cost component. The General and Administrative expense is allocated 100% to the fixed cost components of Account Services and Meter Capacity, with the percentage of cost associated with legal and professional services assigned to Meter Capacity (40.7%), with the remaining 59.3% allocated to Account Services. Legal and Professional Services encompass matters of the entire system and therefore, assigned to Meter Capacity, which reflects the demand on the entire system. Salaries & Benefits were split between fixed and variable, with executive staff, such as the General Manager and the Assistance General Manager, assigned to Meter Capacity and the remainder of District staffing allocated to Delivery. Executive Staff accounts for 35% of total personnel costs and 65% includes staffing in the field.

Table 28: O&M Expense Allocation to	Cost Components	(%)
-------------------------------------	-----------------	-----

Operating Expenses	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
General and Administrative	Specific	0.0%	59.3%	40.7%	0.0%	0.0%	100%
Salaries & Benefits	Specific	0.0%	0.0%	35.0%	65.0%	0.0%	100%
Transmission & Distribution	Average Day	0.0%	0.0%	0.0%	100.0%	0.0%	100%
Treatment	Specific	0.0%	0.0%	0.0%	0.0%	100.0%	100%
CalPERS & OPEB	Specific	0.0%	100.0%	0.0%	0.0%	0.0%	100%

Table 29: O&M Expense Allocation to Cost Components (\$)

Operating Expenses	Methodology / Allocation Basis	Fixed Purchas Wate	l Sed r	A Se	ccount ervices	Meter Capacity	I	Delivery	٦	Freatment	Total
General and Administrative	Specific	\$	-	\$	759,000	\$ 520,000	\$	-	\$	-	\$ 1,279,000
Salaries & Benefits	Specific		0		0	1,007,300		1,870,700		0	2,878,000
Transmission & Distribution	Average Day		0		0	0		438,000		0	438,000
Treatment	Specific		0		0	0		0		284,000	284,000
CalPERS & OPEB	Specific		0		169,000	0		0		0	169,000
Total Allocation (\$)		\$	-	\$	928,000	\$ 1,527,300	\$	2,308,700	\$	284,000	\$ 5,048,000
O&M Allocation (%)		0.0%			18.4%	30.3%		45.7%		5.6%	100%


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 30 identifies the percent allocation of the debt expense to the cost components, and Table 31 reflects the debt expense in dollars.

Table 30: Water Debt Allocation to Cost Components (%)

Debt Service	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
SRF Loan	Specific	0.0%	0.0%	100.0%	0.0%	0.0%	100%
Refinancing/Proposed New Debt	Specific	0.0%	0.0%	100.0%	0.0%	0.0%	100%

Table 31: Water Debt Allocation to Cost Components (\$)

Debt Service	Methodology / Allocation Basis	Fix Purch Wat	ed ased ter	Account Services		C	Meter Capacity	D	elivery		Treatment	Total
SRF Loan	Specific	\$	-	\$	-	\$	230,382	\$	-	Ş	- ·	\$ 230,382
Refinancing/Proposed New Debt	Specific		0		0		568,182		0		0	568,182
Total Allocation (\$)		\$	-	\$	-	\$	798,564	\$	-	Ş	<u>-</u>	\$ 798,564

Other Funding includes other operating and non-operating revenues, water sales to San Clemente and Reserve Funding. For water sales to San Clemente, a portion of revenue may be used to offset the fixed costs incurred by the District associated with the Baker water treatment plant. Based on these water sales, approximately 33% of the revenue may be used to offset the Baker fixed costs and the remaining amount covers the variable expenses. All other items are allocated based on O&M percentages derived in Table 29 to allocate revenue offsets and reserve funding proportionately to the cost components. Table 32 summarizes the percent allocation to the cost components, and Table 33 uses the percent allocations in Table 32 to allocate expenses in dollars to each cost component. Table 34 summarizes the revenue requirement derived in Table 25 by cost component.



Other Funding	Methodology / Allocation Basis	Fixed Purchased Water	Account Services	Meter Capacity	Delivery	Treatment	Total
Revenue Offsets							
Operating Revenues	O&M Allocation	0.0%	18.4%	30.3%	45.7%	5.6%	100%
BTP Sales	Specific	33.1%	0.0%	0.0%	66.9%	0.0%	100%
Non-Operating Revenues	O&M Allocation	0.0%	18.4%	30.3%	45.7%	5.6%	100%
Adjustments							
Reserve Funding	O&M Allocation	0.0%	18.4%	30.3%	45.7%	5.6%	100%

Table 32: Other Funding to Cost Components (%)

Table 33: Other Funding Allocation to Cost Components (\$)

Other Funding	Methodology / Allocation Basis	Pu	Fixed rchased Water	Account Services	Meter Capacity	I	Delivery	٦	Freatment		Total
Revenue Offsets											
Operating Revenues	O&M Allocation	\$	-	\$ (37,135)	\$ (61,116)	\$	(92,385)	\$	(11,365)	\$	(202,000)
BTP Sales	Specific		(367,000)	0	0		(742,000)		0	I	(1,109,000)
Non-Operating Revenues	O&M Allocation		0	(202,770)	(333,719)		(504,456)		(62,055)	I	(1,103,000)
Adjustments										I	
Reserve Funding	O&M Allocation		0	55,782	91,806		138,776		17,071		303,436
Total Allocation (\$)		\$	(367,000)	\$ (184,123)	\$ (303,029)	\$	(1,200,065)	\$	(56,348)	\$	(2,110,564)

Table 34: FY 2024 Water Cost-of-Service Requirements by Cost Component

Revenue Requirement	Pu	Fixed Irchased Water	Acc Ser	count rvices	Mete Capaci	r ty	Baker (BTP)	S T	MWD - reated	I T	IRWD - Treated	D)imension (DWTP)	F	Portola Hills	[Delivery	Pu	Imping	Total
Water Supply	\$	661,000	\$	-	\$	-	\$ 320,000	\$	32,000	\$	805,000	\$	1,168,000	\$	202,000	\$	995,445	\$	10,555	\$ 4,194,000
Operating		0	9	Э28,000	1,527,	300	0		0		0		0		0		2,308,700		0	5,048,000
Debt Service		0		0	900,	064	0		0		0		0		0		0		0	900,064
Other Funding		(367,000)	(2	202,782)	(333,	738)	0		0		0		0		0		(1,246,486)		0	(2,212,064)
COS Requirement	\$	294,000	\$ 72	25,218	\$2,093,0	526	\$ 320,000	\$	32,000	\$	805,000	\$	1,168,000	\$	202,000	\$2	2,057,659	\$	10,555	\$ 7,930,000



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 to connect costs to the proposed rates, resulting in a rate structure that is cost-based and in compliance 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 35 each meter size was assigned an equivalency factor using the flow characteristics of a 5/8" meter. The District's meter inventory was reviewed, and 3/4" meters were used in the past by a developer for 871 accounts, but it wasn't a requirement, and these accounts could've been served by a 5/8" meter. Therefore, historically, 3/4" meters have been assigned the same gallons per minute (gpm) as a 5/8". Based on the District's meter inventory, the safe maximum operating flow capacity for these meter types, as identified in the AWWA M1 Manual, 6th Edition, Table B-2, were 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 represent the potential flow through each meter size compared to the flow through the base 5/8" meters by the Capacity Ratio and then multiplying the result by the billing periods in a year (12 billing periods)⁴. Table 35 summarizes the units of service related to Total Annual Bills and Annual MEs.

⁴ The District bills customers on a monthly basis; therefore, there are 12 billing periods during the fiscal year.



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	2,624	2,624
3/4"	20	1.00	871	871
1"	50	2.50	394	985
1 1/2"	100	5.00	44	220
2"	160	8.00	145	1,160
3"	350	17.50	7	123
4"	630	31.50	3	95
6"	1,300	65.00	2	130
Total			4,090	6,207
Annual Units (T	otal x 12 Bills	49,080	74,484	

Table 35: Accounts and Meter Equivalents

Total usage by customer class and tier must be known to derive the units of service for allocating variable costs. Table 36 provides the projected usage for FY 2024 from Table 12, broken out by customer class and proposed tiers for Single-Family and Multi-Family.

Customer Class & Tier	Tier Definitions (HCF)	Projected Usage (HCF)
Single-Family		
Tier 1	0 - 13	436,062
Tier 2	14 - 21	127,345
Tier 3	>21	100,066
Multi-Family		
Tier 1	0 - 6	10,829
Tier 2	>6	1,246
Commercial	Uniform	34,008
Irrigation	Uniform	143,718
Agricultural	Uniform	95,593
Portola Hills	Uniform	63,022
Total		1,011,889

Table 36: Projected Usage by Customer Class and Tier (HCF)



Pump Zone	All Pumping Usage (HCF)
Zone 1 - Base	932,738
Zone 2 - Topanga / Saddlecrest	8,282
Zone 3 - Canyon Creek	2,179
Zone 4 - Falcon	2,632
Zone 5 - Joplin	3,036
Total	948,867

Table 37: Projected Usage by Pumping Zone (HCF)

Table 36 identifies the tiered usage for Single-Family and Multi-Family based on the revised tiered allotments. The Tier 1 allotments for both residential customer classes are based on the lowest winter usage period, primarily comprised of indoor use, as outdoor watering needs are limited in the winter. Single-Family Residential Tier 1 equals 13 HCF per dwelling unit, and Multi-Family Residential equals 6 HCF per dwelling unit. Single-Family Residential also includes two additional tiers, with Tier 2 covering the maximum month (August) usage per dwelling unit equal to 21 HCF, and Tier 3 capturing all remaining usage over Tier 2.

Multi-Family only includes two tiers because multi-family units have limited outdoor needs. Therefore, a twotiered rate structure is recommended and proposed as part of this study. The tiered usage characteristics will be used to further apportion the total variable costs allocated to each 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 Commercial, Irrigation, Agricultural, and Portola Hills 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 Commercial to enhance equity between accounts within the customer class due to the broad spectrum of commercial uses that vary substantially with water needs that wouldn't fit into one tiered rate structure applied to all. Irrigation and Agricultural are also structured as uniform rates because the landscape areas and crop areas, respectively, would need to be known for structuring appropriate tiered rates. Lastly, Portola Hills is structured as a uniform a rate because they currently only receive one water supply source, and a tiered rate structure would not reflect different rates as each tier would reflect the same water supply.

With the units of service shown in Table 35, Table 36, and Table 38, we can select the appropriate distribution basis for each cost component. Figure 12 identifies the total revenue requirements by cost component from Table 34 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 place 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

Fixed Purchased Water

Fixed costs are incurred by the District from its various available water supplies regardless of total amount of water used. Therefore, these costs are spread based on meter size similar to how the costs are incurred by the District. The revenue requirement for Fixed Purchased Water is apportioned based on meter size as represented by total annual MEs (Table 35) in Table 39.

Fixed Purchased Water	Component Unit Rate
Revenue Requirement	\$ 294,000
÷ Total ME's	74,484
Monthly Unit Rate	\$3.95



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 (12 billing periods). Therefore, the revenue requirement for Account Services is apportioned based on the Total Bills (Table 35) to determine the monthly unit cost-of-service shown in Table 39.

Table 39: FY 2024 Account Services Monthly Unit Rate

Account Services Component	Unit	Rate
Revenue Requirement	\$	725,218
÷ Total Bills		49,080
Monthly Unit Rate		\$14.78

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 40.

Table 40: FY 2024 Meter Capacity Monthly Unit Rate

Meter Capacity Component Unit Rate

Revenue Requirement	\$ 2,093,626
÷ Total ME's	74,484
Monthly Unit Rate	\$28.11



Variable Cost Recovery

The remaining cost components are recovered through the variable rates. The proposed variable rate structure includes tiers for Single-Family Residential and Multi-Family Residential and a uniform rate for Non-Residential. Tiered rates differ solely by water supplies available to serve each tier, with the lowest water supply unit rate applied to tier 1 followed by more expensive water supplies as total water demand increases through the higher tiers. As part of this study, a detailed analysis was conducted to first separate fixed costs and variable costs of each water supply, and then a decoupling of variable costs between each water supply source to derive water supply unit rates. Through this approach, water supply variable costs were separated between Baker Treatment Plant (BTP), SMWD Treated, IRWD – Treated, and Dimension Treatment Plant (DWTP). For each water supply, a 7.1% water loss was applied to the water production to derive the net amount of each water supply available to serve customer demands. Table 41 summarizes the unit rates for each water supply available to the District. Appendix A includes a detailed analysis of water supply costs.

Water Supplies	Production/P urchases	Water Loss	Net Water Supply	Available Supply (AS)	Revenue Requirement	Unit Rate
	[A] = Acre Feet	[B]	[C] = A x (1-B)	[D] = C x 435.6	[E]	[F] = E ÷ D
Baker (BTP)	368	7.1%	342	149,104	\$ 320,000	\$2.15
SMWD - Treated	26	7.1%	24	10,519	32,000	\$3.04
IRWD - Treated	591	7.1%	549	239,280	805,000	\$3.36
Dimension (DWTP)	1,359	7.1%	1,263	549,964	1,168,000	\$2.12
Total Water Supply	2,344		2,178	948,867	\$ 2,325,000	

Table 41: FY 2024 Water Supply Unit Rates per HCF

Unit rates must be determined for each tier that corresponds to the water source serving the usage within each tier. Table 42 summarizes the amount of water - by source - used to serve total water demand in each tier and the corresponding unit rate rounded up to the nearest penny. Each customer class is allocated a proportionate share of each water supply (except Portola Hills which only receives water from IRWD as a pass through and is shown separately) based on percentage of total water sales. As such, irrespective of a customer class rate structure reflecting tiers or uniform rates, each customer class is receiving and paying its fair share of water supplies. As shown in Table 42, Dimension (DWTP) cannot cover the total demand in Tier 1 of Single-Family on its own and a portion of Baker (BTP) is required to meet the total demand in Single-Family Tier 1. Similarly, Single-Family Tier 2 requires Baker (BTP), all of SMWD – Treated, and a portion of IRWD – Treated to meet total demand. Single-Family Tier 3 uses IRWD – Treated as all other water supplies are no longer available. This approach is also applied to Multi-Family. For non-residential customer classes (Commercial, Irrigation, and Agricultural), all four water supplies are applied to each customer class based on their percentage of total water demand (Table 42 – Column B).

Water Supply Allocation	Projected Usage (HCF)	% Allocation	Dimension (DWTP)	Baker (BTP)	SMWD - Treated	IRWD - Treated	Total Cost	Unit rate
	[A]	[B] = A as %	[C] = AS x B	[D] = AS x B	[E] = AS x B	[F] = AS x B	[G] = Sum Product (Unit Rate x Usage)	[H] = G÷A
Available Supply (AS)			549,964	149,104	10,519	239,280		
Effective Unit Cost (\$/HCF)			\$2.12	\$2.15	\$3.04	\$3.36		
Single-Family								
Tier 1	436,062		384,550	51,512	-	-	\$ 927,250	\$2.13
Tier 2	127,345		-	52,745	7,355	67,244	361,802	\$2.85
Tier 3	100,066	5	-	-	-	100,066	336,649	\$3.37
Subtotal Single-Family	663,473	69.9%	384,550	104,258	7,355	167,311	1,625,702	
Multi-Family								
Tier 1	10,829	1	6,999	1,897	134	1,799	\$ 25,396	\$2.35
Tier 2	1,246	i	-	-	-	1,246	4,192	\$3.37
Subtotal Multi-Family	12,075	1.3%	6,999	1,897	134	3,045	29,587	
Commercial	34,008	3.6%	19,711	5,344	377	8,576	\$ 83,329	\$2.46
Irrigation	143,718	15.1%	83,299	22,584	1,593	36,242	\$ 352,151	\$2.46
Agricultural	95,593	10.1%	55,406	15,021	1,060	24,106	\$ 234,231	\$2.46
Total	948,867	100%	549,964	149,104	10,519	239,280	\$ 2,325,000	

Table 42: FY 2024 Customer Class and Tier Water Supply Unit Rates per HCF

Portola Hills

Based on the location of Portola Hills and connectivity to IRWD, this area of the District only receives water from IRWD as a fully-loaded pass through. Therefore, the Portola Hills cost component isolates water supply costs attributable to Portola Hills customers. The cost includes a 5% surcharge by IRWD for water loss and cost associated with pumping. The revenue requirement for Portola Hills is apportioned based on the projected total potable usage identified in Table 36 to determine the unit cost-of-service, as shown in Table 44.

Table 43: FY 2024 Portola Hills Cost Unit Rate per HCF

Portola Hills Component Unit Rate

Unit Rate	\$3.21
÷ Portola Usage	63,022
Revenue Requirement	\$ 202,000



Delivery

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 potable usage identified in Table 36 to determine the unit cost-of-service, irrespective of tier, as shown in Table 44.

Table 44: FY 2024 Delive	ry Cost Unit Rate per HCF
--------------------------	---------------------------

Delivery Component Unit	Rate	
Revenue Requirement	\$	2,057,659
÷ All Usage		1,011,889
Unit Rate		\$2.04

<u>Treatment</u>

Treatment costs of the District are associated with the operations of the Dimension water treatment plant. These costs are recovered over all water usage, except for Portola Hills as their primary water source is Irvine Ranch Water District. Therefore, the revenue requirement for Treatment is apportioned over projected total usage identified in Table 36, less Portola Hills (TCWD Usage) to determine the unit cost-of-service, as shown in Table 45.

Table 45: FY 2024 Treatment Unit Rate per HCF

Treatment Component Unit Rate

Revenue Requirement	\$ 221,942
÷ TCWD Usage	948,867
Unit Rate	\$0.23



FY 2024 Cost-of-Service Rates – Water Utility

Proposed FY 2024 Monthly Fixed Charges

Table 46 reflects the combined charges of the District's proposed fixed charge of Fixed Purchased Water, Account Services and Meter Capacity. Account Services are constant for all meter sizes. Fixed Purchased Water and Meter Capacity are multiplied by the corresponding Capacity Ratios of each meter size to derive the FY 2024 fixed charges.

Meter Size	Capacity Ratio	TCWD Meters	Fixed Purchased Water	Account Services	Meter Capacity	FY 2024 Proposed Base Fixed Charge
	[A]		[B] = \$3.95 x A	[C] = \$15.16	[D] = 27.16 x A	[E] = B+C+D
5/8"	1.00	2,161	\$ 3.95	\$ 14.78	\$ 28.11	\$ 46.84
3/4"	1.00	803	3.95	14.78	28.11	46.84
1"	2.50	394	9.88	14.78	70.28	94.93
1 1/2"	5.00	44	19.75	14.78	140.55	175.08
2"	8.00	145	31.60	14.78	224.88	271.26
3"	17.50	7	69.13	14.78	491.93	575.83
4"	31.50	3	124.43	14.78	885.47	1,024.67
6"	65.00	2	256.75	14.78	1,827.15	2,098.68

Table 46: FY 2024 Monthly Fixed Charges by Meter Size

Proposed FY 2024 Variable Rates

The proposed variable rates for FY 2024 are shown in Table 47 for each customer class and tier, reflecting the combined rate components of Water Supply, Portola Hills, Delivery and Treatment.

Table 47: FY 2024 Variable Rates by Customer Class and Tier (HCF)

Customer Class & Tier	Tier Definitions	Projected Usage	Water Supply	Portola Hills	Delivery	Treatment	FY 2024 Proposed Base Variable Rate
	(HCF)	(HCF)	[A]	[B]	[C]	[D]	[E] = A+B+C+D
Single-Family							
Tier 1	0 - 13	436,062 \$	2.13	\$-	\$ 2.04	\$ 0.23	\$ 4.40
Tier 2	14 - 21	127,345	2.85	-	2.04	0.23	5.12
Tier 3	>21	100,066	3.37	-	2.04	0.23	5.64
Multi-Family							
Tier 1	0 - 6	10,829 \$	2.35	\$-	\$ 2.04	\$ 0.23	\$ 4.62
Tier 2	>6	1,246	3.37	-	2.04	0.23	5.64
Commercial	Uniform	34,008 \$	2.46	\$-	\$ 2.04	\$ 0.23	\$ 4.73
Irrigation	Uniform	143,718 \$	2.46	\$ -	\$ 2.04	\$ 0.23	\$ 4.73
Agricultural	Uniform	95,593 \$	2.46	\$ -	\$ 2.04	\$ 0.23	\$ 4.73
Portola Hills	Uniform	63,022 \$	-	\$ 3.21	\$ 2.04	\$-	\$ 5.25



Wastewater Utility

Wastewater System

The District owns and operates gravity sewer pipelines and force mains, sewer lift stations, and pump stations and treats collected wastewater at its Robinson Wastewater Treatment Plant (WWTP) and Chiquita WWTP.

Figure 13: Wastewater System



The District recently completed asset management plan identified capital project needs of \$15M over the next ten years. Through the District's review of the asset management plan and prioritizing projects between critical, less critical, and non-critical improvements, a final proposed Capital Improvement Plan (CIP) for this study was provided requiring \$15M in capital spending over the next ten years, of which \$8.5M is needed during the Rate Setting Period. Figure 14 shows the District's CIP through FY 2028 with funding sources.



Figure 14: Wastewater Capital Improvement Plan



Customers

At the start of FY 2023, the District had 3,863 active billable units, which includes total residential dwelling units and commercial accounts. Table 48 provides a summary of billable units by customer class.

Customer Class	tomer Class Accounts		Annual Billing Units	
	[A]	[B]	[C] = B x 12	
Residential	3,664	3,819	45,828	
Commercial	44	44	528	
Total	3,708	3,863	46,356	

Table 48: Wastewater Billable Units by Customer Class

The current wastewater rate structure consists of monthly fixed charges charged against each billing unit, which includes accounts and additional dwelling units, and variable rates charged against commercial accounts. Variable rates are separated into three different categories of strength levels of discharge – Low, Medium, and High. Existing charges and rates are identified in Table 49.

Table 49: Existing Wastewater Monthly Fixed Charges

Flat Charges (\$/Month)					
Customer Class Existing					
Residential	\$	39.56			
Commercial	\$	5.14			
Variable Rates (\$/HCF)					
Customer Class Existing					
Commoraial					

Commercial	
Low	\$ 5.69
Medium	7.21
High	9.44



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 50 identifies assumptions used for forecasting revenues, and Table 51 identifies assumptions used for forecasting increases in expenses through the Rate Setting Period.

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Revenue Escalation					
Non-Rate Revenues	0%	0%	0%	0%	0%
Reserve Interest	2.0%	2.0%	2.0%	2.0%	2.0%
Account Growth	0%	0%	0%	0%	0%
Billing Units	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Single-Family	3,633	3,633	3,633	3,633	3,633
Multi-Family	186	186	186	186	186
Commercial	44	44	44	44	44
Total Billing Units	3,863	3,863	3,863	3,863	3,863
Billed Flow by Customer Class	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Commercial					
Low	7,784	7,784	7,784	7,784	7,784
Medium	5,752	5,752	5,752	5,752	5,752
High	1,615	1,615	1,615	1,615	1,615
Total Billed Flow (HCF)	15,151	15,151	15,151	15,151	15,151

Table 50: Wastewater Assumptions for Forecasting Revenues

Table 51: Wastewater Assumptions for Forecasting Expense Requirements⁵

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Expenditure Escalation					
Benefits	7.00%	7.00%	7.00%	7.00%	7.00%
Capital Construction	6.63%	3.93%	3.93%	3.93%	3.93%
Energy Costs	8.00%	8.00%	5.00%	5.00%	5.00%
Fuel	20.00%	20.00%	5.00%	5.00%	5.00%
General Costs	6.20%	3.95%	3.95%	3.95%	3.95%
Non-Inflated	0.00%	0.00%	0.00%	0.00%	0.00%
Retirement	5.00%	5.00%	5.00%	5.00%	5.00%
Salaries	5.00%	5.00%	5.00%	5.00%	5.00%

⁵ Capital Construction inflation and General Costs for FY 2024 and FY 2025 were increased to 6.6% and 6.2%, respectively to account for recent annual increase due to inflation. Outer years reduce to 3.93% and 3.95%, reflecting the 5-year average of the Engineer's News Record – CCI index and the LA Consumer Price Index, respectively.

Current Financial Position

Revenues

Based on the forecasting assumptions, revenues were calculated using billable units (Table 48) and existing wastewater rates (Table 49). Table 52 shows the calculated revenues for FY 2024 through the Rate Setting Period. Table 53 summarizes calculated rate revenues (rounded to thousands) and other non-rate revenues available through the Rate Setting Period.

	_									
Fixed Revenues		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Base Fixed Charge										
Single-Family	\$	1,724,658	\$	1,724,658	\$	1,724,658	\$	1,724,658	\$	1,724,658
Multi-Family		79,169		79,169		79,169		79,169		79,169
Commercial		2,714		2,714		2,714		2,714		2,714
Total Base Fixed Charge	\$	1,806,541	\$	1,806,541	\$	1,806,541	\$	1,806,541	\$	1,806,541
Variable Revenues		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Commercial										
Low	\$	44,291	\$	44,291	\$	44,291	\$	44,291	\$	44,291
Low Medium	\$	44,291 41,472								
Low Medium High	\$	44,291 41,472 15,246								
Low Medium High Total Non-Potable Variable Rate Revenue	\$ \$	44,291 41,472 15,246 101,008								
Low Medium High Total Non-Potable Variable Rate Revenue	\$ \$	44,291 41,472 15,246 101,008								

Table 52: Wastewater Calculated Rate Revenues

Table 53: Wastewater Projected Wastewater Revenues

Revenue Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenues					
Residential	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000	\$ 1,804,000
Commercial	104,000	104,000	104,000	104,000	104,000
Subtotal Rate Revenues	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000	\$ 1,908,000
Operating Revenues					
Late Charges	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000
New Account Fee	2,000	2,000	2,000	2,000	2,000
Wastewater Discharge Permit	1,000	1,000	1,000	1,000	1,000
Sewer Contracts	53,000	53,000	53,000	53,000	53,000
Chiquita/El Toro Fixed Cost	64,000	64,000	64,000	64,000	64,000
ETRLS (SMWD)	92,000	92,000	92,000	92,000	92,000
Subtotal Operating Revenues	\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000	\$ 251,000
Non-Operating Revenues					
Uncollectable Accounts	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)
Property Taxes	780,000	790,000	800,000	810,000	820,000
Other Non-Operating Revenue	16,000	16,000	16,000	16,000	16,000
Interest Revenue	14,000	12,000	12,000	13,000	13,000
Subtotal Non-Operating Revenues	\$ 809,000	\$ 817,000	\$ 827,000	\$ 838,000	\$ 848,000
Total Revenues	\$ 2,968,000	\$ 2,976,000	\$ 2,986,000	\$ 2,997,000	\$ 3,007,000



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 51. Table 54 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.

O&M Expenses	F	Y 2024	I	FY 2025		FY 2026	F	FY 2027	ł	FY 2028
Operating Expenses										
General and Administrative		563,000		589,000		616,000		645,000		675,000
Salaries & Benefits		1,242,000		1,310,000		1,382,000		1,459,000		1,539,000
Treatment		539,000		573,000		598,000		624,000		652,000
CalPERS & OPEB		74,000		71,000		66,000		61,000		55,000
Subtotal Operating Expenses	\$2	,418,000	\$2	2,543,000	\$2	2,662,000	\$2	2,789,000	\$2	2,921,000
Debt Service										
Credit Line	\$	-	\$	-	\$	-	\$	-	\$	-
Refinancing/New Proposed Debt		184,805		184,805		184,805		184,805		184,805
Subtotal Debt Service	\$	184,805	\$	184,805	\$	184,805	\$	184,805	\$	184,805
Total Expenses	\$2	,602,805	\$2	2,727,805	\$2	2,846,805	\$2	2,973,805	\$3	3,105,805

Table 54: Wastewater Projected O&M Expenses



<u>Reserves</u>

The wastewater utility reserves include Operating, Replacement 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 55 summarizes the minimum reserve requirements and the ideal funding targets of each reserve.

Reserve	Minimum Requirement	Reserve Target
Operating	90 days of operating costs	120 days of operating costs
Capital Replacement	Annual CIP based on 5-year average	2 years of CIP based on 5-year average
Rate Stabilization	10% of Operating Expenses	N/A

Table 55: Wastewater Reserve Requirements and Targets

The reserve balance as of July 1, 2022, equaled approximately \$1.35M.

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 and noticed rates through FY 2025 noticed rates will 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 2024 due to the \$3.2M in capital costs. Table 57 forecasts existing revenues and expenses through the Rate Setting Period. Table 57 identifies reserve transfers and reserves activity, with projected FY 2024 starting reserve balances shown for each reserve.



Revenue	FY 2024			FY 2025	FY 2026	FY 2027	FY 2028	
Rate Revenues								
Residential	Table 52	\$	1,804,000	\$ 1,804,000	\$ 1,804,000	\$	1,804,000	\$ 1,804,000
Commercial	Table 55		104,000	104,000	104,000		104,000	104,000
Total Rate Revenues		\$	1,908,000	\$ 1,908,000	\$ 1,908,000	\$	1,908,000	\$ 1,908,000
Projected Rate Revenues		\$	1,908,000	\$ 1,908,000	\$ 1,908,000	\$	1,908,000	\$ 1,908,000
Operating Revenues								
Late Charges		\$	39,000	\$ 39,000	\$ 39,000	\$	39,000	\$ 39,000
New Account Fee			2,000	2,000	2,000		2,000	2,000
Wastewater Discharge Permit	Table 52		1,000	1,000	1,000		1,000	1,000
Sewer Contracts	Table 55		53,000	53,000	53,000		53,000	53,000
Chiquita/El Toro Fixed Cost			64,000	64,000	64,000		64,000	64,000
ETRLS (SMWD)			92,000	92,000	92,000		92,000	92,000
Subtotal Operating Revenues		\$	251,000	\$ 251,000	\$ 251,000	\$	251,000	\$ 251,000
Non-Operating Revenues								
Uncollectable Accounts		\$	(1,000)	\$ (1,000)	\$ (1,000)	\$	(1,000)	\$ (1,000)
Property Taxes			780,000	790,000	800,000		810,000	820,000
Other Non-Operating Revenue	Table 53		16,000	16,000	16,000		16,000	16,000
Interest Revenue			14,000	12,000	12,000		13,000	13,000
Subtotal Non-Operating Revenues		\$	809,000	\$ 817,000	\$ 827,000	\$	838,000	\$ 848,000
Total Revenues		\$	2,968,000	\$ 2,976,000	\$ 2,986,000	\$	2,997,000	\$ 3,007,000
0&M Expenses			FY 2024	FY 2025	FY 2026		FY 2027	FY 2028
Operating Expenses							0	
General and Administrative			563,000	589,000	616,000		645,000	675,000
Salaries & Benefits	Table 54		1,242,000	1,310,000	1,382,000		1,459,000	1,539,000
Treatment	Table 54		539,000	573,000	598,000		624,000	652,000
CalPERS & OPEB			74,000	71,000	66,000		61,000	55,000
Subtotal Operating Expenses		\$	2,418,000	\$ 2,543,000	\$ 2,662,000	\$	2,789,000	\$ 2,921,000
Debt Service								
Credit Line		\$	36,250	\$ 18,125	\$ -	\$	-	\$ -
Refinancing/New Proposed Debt	Table 54		184,805	184,805	184,805		184,805	184,805
Subtotal Debt Service		\$	221,055	\$ 202,930	\$ 184,805	\$	184,805	\$ 184,805
Total Expenses		\$	2,639,055	\$ 2,745,930	\$ 2,846,805	\$	2,973,805	\$ 3,105,805
Net Cashflow		\$	328,945	\$ 230,070	\$ 139,195	\$	23,195	\$ (98,805)

Table 56: Wastewater Financial Plan at Existing Rates



Operating/Working Capital		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	566,384	\$	596,219	\$	627,041	\$	656,384	\$	679,578
Transfers (Net Cashflow)		328,945		230,070		139,195		23,195		(98,805)
Transfers from/(to) Capital Reserve		(299,109)		(199,248)		(109,852)		0		0
Ending Balance	\$	596,219	\$	627,041	\$	656,384	\$	679,578	\$	580,773
Capital Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	1,472,018	\$	(1,406,662)	\$	(2,690,309)	\$	(4,742,213)	\$	(5,712,473)
<u>Plus:</u>										
Transfers from/(to) Operating/Working Capital		299,109		199,248		109,852		0		0
Less:										
CIP		(3,177,790)		(1,482,895)		(2,161,756)		(970,260)		(693,336)
Transfers from/(to) Sewer Rate Stabilization Reserve		-		-		-		-		-
Subtotal Capital Reserve	\$	(1,406,662)	\$	(2,690,309)	\$	(4,742,213)	\$	(5,712,473)	\$	(6,405,808)
Interest Earnings		0		0		0		0		0
Ending Balance	\$	(1,406,662)	\$	(2,690,309)	\$	(4,742,213)	\$	(5,712,473)	\$	(6,405,808)
Sewer Rate Stabilization Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Beginning Balance	\$	-	\$	-	\$	-	\$	-	\$	-
Transfers from/(to) Capital Reserve		-		-		-		-		-
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	-
Ending Unrestricted Reserve Balance	Ś	(810.443)	Ś	(2.063.268)	Ś	(4.085.829)	Ś	(5.032.895)	Ś	(5.825.035)

Table 57: Wastewater – Transfers and Reserve Activity at Existing Rates

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 Replacement, and Rate Stabilization reserves.









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 \$5.285M 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 23 forecasts projected revenues, *with annual revenue adjustments*, and expenses through FY 2028, including \$7M in proposed debt that converts the existing short-term debt of \$2.5M to long-term debt plus an additional \$4.5M in new proceeds. Table 24 identifies the projected FY 2024 total starting reserve balances, activity within each reserve (including net income transfer from Table 23, transfers between reserves, and annual CIP), and projected ending balances for each fiscal year of the Rate Setting Period.



Revenue					FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Rate Reven	ues												
Residential				\$	1,804,000	\$	1,804,000	\$	1,804,000	\$	1,804,000	\$	1,804,000
Commercia	al		Table 53		104.000		104.000	·	104.000		104.000	·	104.000
Total Rate Re	evenues			\$	1,908,000	\$	1,908,000	\$	1,908,000	\$	1,908,000	\$	1,908,000
								·	, ,		, ,		, ,
Additional I	Revenue (froi	m revenue adju	stments):										
Fiscal Year	Revenue	Effective											
51/ 2024	Adjustment	Month			205 000		205 000		205 000		205 000		205 000
FY 2024	16.0%	July			305,000		305,000		305,000		305,000		305,000
FY 2025	16.0%	July					354,000		354,000		354,000		354,000
FY 2026	16.0%	July							410,000		410,000		410,000
FY 2027	12.0%	July									357,000		357,000
FY 2028	12.0%	July											400,000
Total Addition	nal Revenue			Ş	305,000	Ş	659,000	Ş	1,069,000	Ş	1,426,000	Ş	1,826,000
Projected R	ate Revenue	.		Ś	2.213.000	Ś	2.567.000	Ś	2.977.000	Ś	3.334.000	Ś	3.734.000
,				•	_,,	Ŧ	_,,	*	_,,	Ŧ	-, ,	*	-,,,
Operating F	Revenues												
Late Charge	es			\$	39,000	\$	39,000	\$	39,000	\$	39,000	Ş	39,000
New Accou	nt Fee				2,000		2,000		2,000		2,000		2,000
Wastewate	r Discharge Pe	ermit	Table 53		1,000		1,000		1,000		1,000		1,000
Sewer Cont	racts		Tuble 55		53,000		53,000		53,000		53,000		53,000
Chiquita/El	Toro Fixed Co	ost			64,000		64,000		64,000		64,000		64,000
ETRLS (SM)	ND)				92,000		92,000		92,000		92,000		92,000
Subtotal C	Operating Re	venues		\$	251,000	\$	251,000	\$	251,000	\$	251,000	\$	251,000
Non-Operat	ing Revenue	• •											
Uncollectat	ole Accounts			Ś	(1,000)	Ś	(1,000)	Ś	(1,000)	Ś	(1,000)	Ś	(1,000)
Property Ta				Ŷ	780.000	Ŷ	790.000	Ŷ	800.000	Ŷ	810.000	Ŷ	820.000
Other Non-	Operating Rev		Table 53		16,000		16,000		16,000		16,000		16,000
Interest Rev		-chuc			14,000		12,000		12,000		13,000		13,000
Subtotal N	lon-Operatir	ng Revenues		Ś	809.000	Ś	817.000	Ś	827.000	Ś	838.000	Ś	848.000
		0						<u> </u>		·			
Total Rever	nues			Ş	3,273,000	Ş	3,635,000	Ş	4,055,000	Ş	4,423,000	Ş	4,833,000
O&M Expe	enses				FY 2024		FY 2025		FY 2026		FY 2027		FY 2028
Operating E	Expenses												
General an	d Administrati	ve			563,000		589,000		616,000		645,000		675,000
Salaries & I	Benefits				1,242,000		1,310,000		1,382,000		1,459,000		1,539,000
Treatment			Table 54		539,000		573,000		598,000		624,000		652,000
CalPERS &	OPEB				74,000		71,000		66,000		61,000		55,000
Subtotal Op	erating Expe	enses		\$	2,418,000	\$	2,543,000	\$	2,662,000	\$	2,789,000	\$	2,921,000
Debt Servic	e												
Credit Line	-			Ś	36,250	Ś	18,125	Ś	-	Ś	-	Ś	-
Refinancing	/New Propose	ed Debt	Table 54	Ŷ	517 455	Ŷ	517 455	Ŷ	517 455	Ŷ	517 455	Ŷ	517 455
Subtotal De	bt Service			Ś	553.705	Ś	535.580	\$	517.455	\$	517.455	\$	517.455
				-	0.074 -05		0.070.500	- -	0.470.175	- -		-	- 400
l'otal Exper	ises			Ş	2,971,705	Ş	3,078,580	Ş	3,179,455	Ş	3,306,455	Ş	3,438,455
Net Cashflo	w			\$	301.295	\$	556.420	\$	875.545	\$	1.116.545	Ś	1.394.545

Table 58: Proposed Wastewater Financial Plan



Operating/Working Capital	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 566,384	\$ 596,219	\$ 627,041	\$ 656,384	\$ 687,699
Transfers (Net Cashflow)	301,295	556,420	875,545	1,116,545	1,394,545
Transfers from/(to) Capital Reserve	(271,460)	(525,598)	(846,203)	(1,085,230)	(1,361,997)
Ending Balance	\$ 596,219	\$ 627,041	\$ 656,384	\$ 687,699	\$ 720,247
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ 1,472,018	\$ 3,111,065	\$ 2,206,417	\$ 921,837	\$ 1,056,394
<u>Plus:</u>					
Transfers from/(to) Operating/Working Capital	271,460	525,598	846,203	1,085,230	1,361,997
Less:					
CIP	(3,177,790)	(1,482,895)	(2,161,756)	(970,260)	(693 <i>,</i> 336)
Transfers from/(to) Sewer Rate Stabilization Reserve	-	-	-	-	 (403,479)
Subtotal Capital Reserve	\$ 3,065,688	\$ 2,153,769	\$ 890,865	\$ 1,036,808	\$ 1,321,577
Interest Earnings	45,377	52,648	30,973	19,586	23,780
Ending Balance	\$ 3,111,065	\$ 2,206,417	\$ 921,837	\$ 1,056,394	\$ 1,345,356
Sewer Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers from/(to) Capital Reserve	-	-	-	-	403,479
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ 403,479
Ending Unrestricted Reserves Balance	\$ 3,707,284	\$ 2,833,458	\$ 1,578,221	\$ 1,744,093	\$ 2,469,082

Table 59: Wastewater – Undesignated Reserves Activity through FY 2028



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 undesignated reserve balances after funding capital expenses.





Figure 18: Wastewater Capital Improvement Plan with Funding Sources







Figure 19: Wastewater Proposed Ending Reserves



Cost of Service Analysis – Wastewater Utility

Cost of Service Process

The next step in developing wastewater rates is to perform a cost-of-service analysis. Through this process, costs incurred are allocated to customer classes based on their proportional share. As a result, proposed rates are cost-based and reflect the costs incurred to provide service to customers.

Revenue Requirements

FY 2024 revenue requirements were used for the cost-of-service analysis. Revenue requirements include O&M expenses, treatment expenses, available revenue offsets, non-rate revenues, and reserve funding. The proposed revenue adjustments and corresponding rates accumulate the necessary funding over the Rate Setting Period to fund O&M, capital projects, and meet minimum reserve requirements. The results of the financial plan analysis are summarized in Table 60 and represent the revenue required from rates over the Rate Setting Period.

	FY 2024		_	FY 2025	 FY 2026	 FY 2027	_	FY 2028
Revenue Requirements		Total		Total	Total	Total		Total
Operating Expenses								
General and Administrative	\$	563,000	\$	589,000	\$ 616,000	\$ 645,000	\$	675,000
Salaries & Benefits		1,242,000		1,310,000	1,382,000	1,459,000		1,539,000
Treatment		539,000		573,000	598,000	624,000		652,000
CalPERS & OPEB		74,000		71,000	66,000	61,000		55,000
Total Operating Expenses	\$	2,418,000	\$	2,543,000	\$ 2,662,000	\$ 2,789,000	\$	2,921,000
Debt Service								
Credit Line	\$	36,250	\$	18,125	\$ -	\$ -	\$	-
Refinancing/New Proposed Debt		517,455		517,455	517,455	517,455		517,455
Total Debt Service	\$	553,705	\$	535,580	\$ 517,455	\$ 517,455	\$	517,455
Other Funding								
Revenue Offsets								
Operating Revenues	\$	(251,000)	\$	(251,000)	\$ (251,000)	\$ (251,000)	\$	(251,000)
Non-Operating Revenues		(809,000)		(817,000)	(827,000)	(838,000)		(848,000)
Total Revenue Offsets	\$	(1,060,000)	\$	(1,068,000)	\$ (1,078,000)	\$ (1,089,000)	\$	(1,099,000)
Adjustments								
Reserve Funding	\$	301,295	\$	556,420	\$ 875,545	\$ 1,116,545	\$	1,394,545
Total Adjustments	\$	301,295	\$	556,420	\$ 875,545	\$ 1,116,545	\$	1,394,545
Subtotal Other Funding	\$	(758,705)	\$	(511,580)	\$ (202,455)	\$ 27,545	\$	295,545
Revenue Requirement from Rates		\$2,213,000		\$2,567,000	\$2,977,000	\$3,334,000		\$3,734,000

Table 60: Wastewater Revenue Requirements



Define Cost Components

The District's wastewater cost-of-service requirements were allocated to cost components and then to customers classes to develop cost-based rates in compliance with Proposition 218. The utility incurs costs to accommodate the total flow demand generated by different customer classes. Therefore, to determine the most appropriate way to recover the utility's expenses, cost components are identified and used to allocate expenses based on how they are incurred. Through our review of the revenue requirements and understanding of the wastewater system, the cost-of-service allocation documented in this report is based on total billing units (accounts plus additional dwelling units), flow (volume influent in HCF), and the strength characteristics of each customer class.

Strength loading factors for chemical oxygen demand (COD) and total suspended solids (TSS) are based on the Los Angeles County Sanitation District (LACSD) 2007 update. The LACSD's 2007 update reflects a substantial dataset of the most up-to-date discharge characteristics for various commercial uses, which typically would not vary by geographical location. The cost components shown in Figure 20 are used within the cost-of-service to allocate costs to customer classes in relation to the demand that each place on the system.



Account Services – Fixed expenses related to the collection system and treatment plants that do not necessarily fluctuate based on flow. Administration, utility billing services, and overhead costs are incurred based on having an account. In addition, a portion of maintenance is recovered as part of Account Services. *Flow* – Expenses associated with the collection system and volume of flow treated at the WWTPs. *COD* – Expenses associated with treating microbial and organic compounds at the WWTP. *TSS* – Expenses associated with treating TSS at the WWTP.

Allocate Expenses to Cost Components

When allocating expenses to the defined cost components, it is important to have a sound basis as to why an expense was allocated to a certain fixed cost component versus a variable cost component or split between both fixed and variable. The distribution of expenses to the cost components should be straightforward to ensure the method of apportionment is **understandable** and easily **correlates to how expenses are incurred**. A description of each expense category is identified below.

Table 61 summarizes the percent allocation of Operating expenses to the cost components with Account Services as a fixed component and Flow, COD, and TSS as variable cost components. General and Administration and CalPERS & OPEB were allocated to the cost component of Account Services. Salaries & Benefits and Treatment expense categories are associated with the daily operating costs of the treatment plants and allocated to Flow, COD and TSS based on the District's review of its treatment plant processes



and how costs are incurred at the plants in treated influent, equal to 20% Flow, 40% COD and 40% TSS. Table 62 uses the percent allocations in Table 61 to allocate expenses in dollars to each cost component.

Operating Expenses	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
General and Administrative	Specific	100.0%	0.0%	0.0%	0.0%	100.0%
Salaries & Benefits	Treatment	0.0%	20.0%	40.0%	40.0%	100.0%
Treatment	Treatment	0.0%	20.0%	40.0%	40.0%	100.0%
CalPERS & OPER	Specific	100.0%	0.0%	0.0%	0.0%	100.0%

Table 61: Wastewater O&M Expense Allocation to Cost Components (%)

Table 62: Wastewater O&M Expense Allocation to Cost Components (\$)

Operating Expenses	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
General and Administrative	Specific	\$ 563,000	\$ -	\$ -	\$ -	\$ 563,000
Salaries & Benefits	Treatment	-	248,400	496,800	496,800	1,242,000
Treatment	Treatment	-	107,800	215,600	215,600	539,000
CalPERS & OPEB	Specific	74,000	-	-	-	74,000
Total Allocation (\$)		\$ 637,000	\$ 356,200	\$ 712,400	\$ 712,400	\$ 2,418,000
O&M Allocation (%)		26.3%	14.7%	29.5%	29.5%	100.0%

The District's debt was allocated based on O&M percentages derived in Table 62 to equitable charge commercial customers their proportionate share of debt based on their percentage of total flow and strength, instead of solely based on percentage of accounts. Table 30 identifies the percent allocation of the debt expense to the cost components, and Table 31 reflects the debt expense in dollars.

Table 63: Wastewater Debt Allocation to Cost Components (%)

Debt Service	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
Credit Line	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Refinancing/New Proposed Debt	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%

Table 64: Wastewater Debt Allocation to Cost Components (\$)

Debt Service	Methodology / Allocation Basis	A S	Account ervices	Flow	COD	TSS	Total
Credit Line	O&M Allocation	\$	9,550	\$ 5,340	\$ 10,680	\$ 10,680	\$ 36,250
Refinancing/New Proposed Debt	O&M Allocation		136,319	76,227	152,454	152,454	517,455
Total Allocation (\$)		\$	145,868	\$ 81,567	\$ 163,134	\$ 163,134	\$ 553,705



Trabuco Canyon WD - Comprehensive Cost-of-Service Utility Rate Study

Other Funding includes other operating revenue, non-operating revenue, and reserve funding. All line items under "Other Funding" are allocated based on O&M percentages derived in Table 62 to allocate each line item to the cost components proportionately. Table 65 summarizes the percent allocation to the cost components, and Table 66 uses the percent allocations in Table 65 to allocate expenses in dollars to each cost component. Table 67 summarizes the FY 2024 revenue requirement derived in Table 60 by cost component

Other Funding	Methodology / Allocation Basis	Account Services	Flow	COD	TSS	Total
Revenue Offsets						
Operating Revenues	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Non-Operating Revenues	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Adjustments						
Reserve Funding	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%
Adjustment for Mid-Year Increase	O&M Allocation	26.3%	14.7%	29.5%	29.5%	100.0%

Table 65: Wastewater Other Funding to Cost Components (%)

Table 66: Wastewater Other Funding to Cost Components (\$)

Other Funding	Methodology / Allocation Basis	9	Account Services	Flow	COD	TSS		Total
Revenue Offsets								
Operating Revenues	O&M Allocation	\$	(66,124) \$	(36,975)	\$ (73,951) \$	(73,951)	\$	(251,000)
Non-Operating Revenues	O&M Allocation		(213,124)	(119,175)	(238,351)	(238,351)).	(809,000)
Adjustments								
Reserve Funding	O&M Allocation		79,374	44,384	88,769	88,769		301,295
Total Allocation (\$)		\$	(199,874) \$	(111,766)	\$ (223,532) \$	(223,532)	\$	(758,705)

Table 67: FY 2024 Wastewater Cost-of-Service Requirements by Cost Component

Revenue Requirement	A Se	ccount ervices	Flow	COD	TSS	Total
Operating	\$	637,000	\$ 356,200	\$ 712,400	\$ 712,400	\$ 2,418,000
Debt Service		145,868	81,567	163,134	163,134	553,705
Other Funding		(199,874)	(111,766)	(223,532)	(223,532)	(758,705)
COS Requirement	\$	582 <i>,</i> 995	\$ 326,001	\$ 652,002	\$ 652,002	\$ 2,213,000



Rate Design – Wastewater Utility

Develop Units of Service

Residential customer flows were projected using expected indoor use based on a gallons per capita per day (gpcd) and people per household (pph) basis. Residential pph was based on the Department of Finance E-5 report for 2022, reflecting 2.75 pph, which is the weighted average based on population of Lake Forest, Mission Viejo, and Rancho Santa Margarita. Residential projected flows were based on 55 gpcd for indoor use with a 95% return factor (55 gpcd x 0.95 = 52.3 gpcd). The 5% reduction accounts for indoor water use that does not return to the collection system (i.e., does not go down the drain). The annual residential flow reflects the product of Net Flow GPCD, total residential billing units, and 365 days. The result is then converted to HCF for a total annual projected residential flow of 268,201 HCF, as shown in Table 68.

Residential Flow Projections	Assumptions
Gallons per capita per day (GPCD)	55.0
Proejcted indoor return factor	95%
Net Flow GPCD	52.3
× People per household (Residential)	2.75
× Number of Residential accounts	3,819
Projected Residential Flow	549,665 GPD
Annual Residential Flow (× 365)	200,627,556
Converted to HCF (÷ 748.05)	268,201

Table 68: Residential Projected Flows

Commercial customer flows were determined by estimating flow return factors for the Commercial customer class. To determine the appropriate flow return factor, we used the amount of total influent conveyed in FY 2022 to the to the District wastewater treatment plants of Robinson WWTP and Chiquita WWTP. The total treated influent is reduced by percentage of infiltration/inflow (known as I/I, which is a measure of the amount of water that enters the collection system that is not sewage, such as stormwater or groundwater that infiltrates into the collection system), equal to 7%, and less the projected residential flow derived in Table 68. The remainder is the estimated amount generated by Commercial customers. Table 69 provides the calculations used to derive the amount of projected flow expected to be generated by Commercial customers.



Flow Assumptions (HCF)	FY 2022
Total Treated Flow	302,506
Less: Inflow and Infiltration (I&I)	7.0% (21,175)
Flow from Customers	281,330
Less Projected Residential Flow	268,201
Projected Non-Residential Flows	13,130

Table 69: Non-Residentia	I Projected	Flows	(HCF)
--------------------------	-------------	-------	-------

Customer Class	Water Usage	Flow Return	Projected Flow
	[A]	[B]	[C] = A x B
Commercial	15,151	86.7%	13,130

Applying a return factor of 86.7% against Commercial water usage generates a calculated flow of 13,130 HCF, which is in-line with what is expected when compared to the amount of projected treated flow from Commercial.

Unit rates for the cost components are derived by identifying the units of service for each cost component (distribution basis). The distribution basis varies by cost component and includes billable units (total accounts/dwelling units) and projected flow, weighted COD, and weighted TSS. Table 70 summarizes the units of service for each cost component. Strength concentrations are weighted by total flow in Million Gallons (MG) to develop COD units of service (Weighted COD) and TSS units of service (Weighted TSS).

Table 70: Wastewater Units of Service

Annual Fixed Units of Service

Customer Class	Accounts	Billing Units	Annual Billing Units	
	[A]	[B]	[C] = B x 12	
Residential	3,664	3,819	45,828	
Commercial	44	44	528	
Total	3,708	3,863	46,356	

Annual Variable Units of Service

Customer Class	Commercial Water Usage (HCF)	Return Factor	Projected Flow (HCF)	Conversion Factor (HCF to MG)	COD (ppm)	TSS (ppm)	Weighted COD	Weighted TSS
	[A]	[B]	[C] = (A× B)	[D]	[E]	[F]	[G] = (C× D× E)	[H] = (C× D× F)
Residential			268,201	0.075%	562	272	112,805	54,553
Commercial								
Low	7,784	86.7%	6,746	0.075%	515	271	2,597	1,370
Medium	5,752	86.7%	4,985	0.075%	1,106	431	4,124	1,609
High	1,615	86.7%	1,400	0.075%	1,798	699	1,883	732
Total	15,151		281,331				121,410	58,264



With the units of service shown in Table 70, the distribution basis can be identified for each cost component. The total revenue requirements by cost component from Table 67 is shown in Figure 21 with the corresponding units of service.





Allocate to Customer Class

Using the FY 2024 revenue requirements, the cost-of-service allocates expenses to customer classes based on the service demands that each place on the system (cost causation). Using this approach provides a clear connection between costs incurred and the proportionate share attributable to each customer class. When designing rates, the most critical component is to connect costs to the proposed rates, resulting in a costbased rate structure in compliance with Proposition 218. In the previous section, costs were summarized by expense category and 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. This ensures that each customer proportionately shares in the financial obligation of the wastewater utility. For the following unit rate computations, unit rates were rounded up to the nearest penny.

Fixed Cost Recovery

Account Services

Account Services costs are spread equally across all billable units over 12 months. Therefore, the revenue requirement for Account Services is apportioned based on the annual billing units to determine the monthly unit cost-of-service shown in Table 71.

Table 71: FY 2024 Wastewater Account Services Monthly Unit Rate

Account Services Comp	oonent - L	Jnit Rate
Revenue Requirement	\$	582,995
÷ Annual Billing Units		46,356
Monthly Unit Rate		\$12.58



Variable Cost Recovery Flow

Flow is a function of total volume of influent conveyed through the collection system and pumped through the treatment plants. Therefore, the revenue requirement for Flow is apportioned to each customer class based on their percentage of the total projected flow, as summarized in Table 72.

Table 72: FY 2024 Wastewater Collection Allocation by Customer Class

Flow Charge Component - Unit Rate								
Revenue Requirement (RR)	\$	326,001						
÷ Projected Flow (HCF)		281,331						
Monthly Unit Rate		\$1.16						

Customer Class	Projected Flow (HCF)	% Allocation	Revenue Requirement				
	[A]	[B] = A as a %		[C] = RR x B			
Residential	268,201	95.3%	\$	310,786			
Commercial							
Low	6,746	2.4%		7,817			
Medium	4,985	1.8%		5,776			
High	1,400	0.5%		1,622			
Total	281,331	100%	\$	326,001			



<u>COD</u>

COD costs relate to the treatment process of breaking down organic material in wastewater. Higher COD strengths require increased costs and longer periods of treatment time to dilute the high levels of COD prior to discharging effluent into waterways. Therefore, the revenue requirement for COD is apportioned based on Weighted COD for each customer class, as shown in Table 73.

Table 73: FY 2024 Wastewater COD Allocation by Customer Class

COD Charge Component -	Unit	Rate
Revenue Requirement (RR)	\$	652,002
÷ Weighted COD		121,410
Monthly Unit Rate		\$5.38

Customer Class	Weighted COD	% Allocation	Revenue Requirement			
	[A]	[B] = A as a %		[C] = RR x B		
Residential	112,805	92.9%	\$	605,794		
Commercial						
Low	2,597	2.1%		13,949		
Medium	4,124	3.4%		22,149		
High	1,883	1.6%		10,110		
Total	121,410	100%	\$	652,002		



TSS costs relate to the treatment process of removing solids from wastewater through settling, screening, and filtering. Higher TSS strengths require increased costs and additional filtration to treat and remove the high levels of TSS prior to discharging effluent into waterways. Therefore, the revenue requirement for TSS is apportioned based on Weighted TSS for each customer class, as shown in Table 74.

Table 74: FY 2024 Wastewater TSS Allocation by Customer Class

TSS Charge Component -	Unit	Rate
Revenue Requirement (RR)	\$	652,002
÷ Weighted TSS		58,264
Monthly Unit Rate		\$11.20

Customer Class	Weighted TSS	% Allocation	Revenue Requirement			
	[A]	[B] = A as a %		[C] = RR x B		
Residential	54,553	93.6%	\$	610,483		
Commercial						
Low	1,370	2.4%		15,329		
Medium	1,609	2.8%		18,000		
High	732	1.3%		8,189		
Total	58,264	100%	\$	652,002		

Collectively, the total allocation of costs associated with Account Services, Flow, COS and TSS (Total Revenue Requirement) derives the cost of providing service to each customer class. Table 75 summarizes the combined revenue requirement by customer class.

Table 75: FY 2024 Wastewater Total Revenue Requirement by Customer Class

Customer Class	A S	Account ervices	Flow COD		TSS	F	Allocated Revenue Requirements	
Residential	\$	576,354	\$ 310,786	\$	605,794	\$ 610,483	\$	2,103,418
Commercial		6,640	-		-	-		6,640
Low			7,817		13,949	15,329		37,095
Medium			5,776		22,149	18,000		45,926
High			1,622		10,110	8,189		19,921
Total	\$	582,995	\$ 326,001	\$	652,002	\$ 652,002	\$	2,213,000

The revenue requirements for residential customers are noticed as flat monthly charges as residential flows are relatively constant throughout the year and will be collected on the property tax bill. Table 76 derives the monthly flat charges for Residential customers.



Customer Class	Account Services		Flow COD		TSS		Total Monthly Flat Charge		
Residential									
Revenue Requirement	\$	576,354	\$	310,786	\$	605,794	\$	610,483	
÷ Units of Service		45,828		45,828		45,828		45,828	
Unit Rate		\$12.58		\$6.79		\$13.22		\$13.33	\$45.92

Table 76: FY 2024 Residential Flat Monthly Charge

For Commercial customer classes, each account is charged a monthly fixed amount for Account Services and commodity rates that vary between the categories of Low, Medium, and High. Variable rates are derived for the variable components of Flow, COD, and TSS by dividing the total allocated cost by total water usage as wastewater flows are not metered. Table 77 and Table 78 derives the monthly fixed charges and variable rates for Commercial, respectively.

Table 77: FY 2024 Commercial Monthly Fixed Charge

Customer Class	Annual Billing Units	Account Services	Total Monthly Fixed Charge		
	[A]	[B]	[C] = B ÷ A		
Commercial	528	\$ 6,640	\$12.58		

Table 78: FY 2024 Commercial Variable Rates

Customer Class	Commercial Water Usage (HCF)	Flow	COD	TSS	Flow	COD	TSS	Total Variable Rates
	[A]	[B]	[C]	[D]	[E] = B ÷ A	[F] = C ÷ A	[G] = D ÷ A	[H] = E + F + G
Commercial								
Low	7,784	\$ 7,817	\$ 13,949	\$ 15,329	\$ 1.01	\$ 1.80	\$ 1.97	\$4.78
Medium	5,752	5,776	22,149	18,000	1.01	3.86	3.13	\$8.00
High	1,615	1,622	10,110	8,189	1.01	6.27	5.08	\$12.36
Recycled Water

The wastewater system produces approximately 800 AF of recycled water annually. The District has major repair and replacement projects over the next six years, including Booster Station Improvements, Dove Creek Pump Station Improvement and the Dove Lake Dam Outlet Works Replacement planned in FY 2029. With the significant Dove Dam replacement project occurring outside the Rate Setting Period, the financial plan tables and related charts extend through FY 2029 (Financial Plan Period). Figure 22 shows the District's CIP through the Financial Plan Period.





Customers

As of July 1, 2022, the District serves a total of 28 recycled accounts as shown in Table 79 by meter size.

Table 79: Recycled Accounts by Meter Size

Meter Size	Number of Accounts
1 1/2"	4
2"	17
3"	3
4"	2
10"	2
Total	28



The current recycled rate structure is charged the same monthly base and WRES fixed charges as potable customers and a uniform variable rate. Existing meter charges and variable rate are identified in Table 80 through Table 82.

Base Fixed Meter Charges (\$/Month)										
Meter Size	Exi	sting								
5/8"	\$	21.04								
3/4"		21.04								
1"		30.70								
1 1/2"		54.85								
2"		83.81								
3"		175.57								
4"		310.77								
6"		779.18								

Table 80: FY 2023 Recycled Monthly Base Fixed Charges

Table 81: FY 2023	Recycled	Monthly WRES	Fixed Charges
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WRES Fixed Meter Charges (\$/Month)										
Meter Size	Exi	sting								
5/8"	\$	16.04								
3/4"		16.04								
1"		25.25								
1 1/2"		38.48								
2"		51.30								
3"		76.95								
4"		102.60								
6"		153.90								

Table 82: FY 2023 Recycled Variable Rate

Recycled Variable F	Rates (\$/HCF)
Customer Class	Existing
Recycled	3.47



Financial Plan Overview – Recycled Utility

Financial Planning Assumptions

Total Non-Potable Consumption (HCF)

Similar to the other utilities, certain assumptions are required for projecting revenues, expenses, and expected ending fund balances. Table 83 identifies assumptions used for forecasting revenues. Table 84 identifies assumptions used for forecasting increases in expenses through the Financial Plan Period.

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Revenue Escalation						
Non-Rate Revenues	0%	0%	0%	0%	0%	0%
Reserve Interest	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Account Growth	0%	0%	0%	0%	0%	0%
All Non-Potable Meters						
Meter Size						
1 1/2"	4	4	4	4	4	4
2"	17	17	17	17	17	17
3"	3	3	3	3	3	3
4"	2	2	2	2	2	2
10"	2	2	2	2	2	2
Total All Non-Potable Meters	28	28	28	28	28	28

Table 83: Recycled Assumptions for Forecasting Revenues

Table 84: Recycled Assumptions for Forecasting Expenses⁶

306,630

306,630

306,630

306,630

306,630

306,630

Key Assumptions	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Expenditure Escalation						
Benefits	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%
Capital Construction	6.6%	3.9%	3.9%	3.9%	3.9%	3.9%
Energy Costs	8.0%	8.0%	5.0%	5.0%	5.0%	5.0%
Fuel	20.0%	20.0%	5.0%	5.0%	5.0%	5.0%
General Costs	6.2%	4.0%	4.0%	4.0%	4.0%	4.0%
Non-Inflated	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Retirement	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Salaries	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Water Purchases (Fixed)	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Water Purchases SMWD - Recycled	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%

⁶ Capital Construction inflation and General Costs for FY 2024 were increased to 6.63% and 6.2%, respectively, to account for recent increases due to inflation. Outer years reduce to 3.93% and 3.95%, reflecting the 5-year average of the Engineer's News Record – CCI index and the LA Consumer Price Index, respectively.

Current Financial Position

Revenues

Based on the forecasting assumptions, revenues were calculated using existing fixed charges (Table 80 and Table 81), multiplied by meters by size and variable rates (Table 83) multiplied by recycled water usage. Table 85 shows the calculated revenues through the Financial Plan Period. Table 86 provides a summary of calculated rate revenues and other non-rate revenues available through the Financial Plan Period (rounded to thousands).

Calculated Recycled Revenue	FY 2024 FY 2025		FY 2026	FY 2027	FY 2028	FY 2029		
Rate Revenues								
Fixed Revenue	\$ 82,342	\$	82,342	\$ 82,342	\$ 82,342	\$ 82,342	\$ 82,342	
Variable Revenue	1,064,006		1,064,006	1,064,006	1,064,006	1,064,006	1,064,006	
WRES Revenue	20,145		20,145	20,145	20,145	20,145	20,145	
Total Rate Revenues	\$ 1,166,493	\$	1,166,493	\$ 1,166,493	\$ 1,166,493	\$ 1,166,493	\$ 1,166,493	

Table 85: Recycled Calculated Rate Revenues

Revenue Summary		FY 2024	FY 2025	FY 2026 FY 2027 FY 20			FY 2028	8 FY 2029			
Rate Revenues											
Fixed Revenue	\$	82,000	\$ 82,000	\$ 82,000	\$	82,000	\$	82,000	\$	82,000	
Variable Revenue		1,064,000	1,064,000	1,064,000		1,064,000		1,064,000		1,064,000	
WRES Revenue		20,000	20,000	20,000		20,000		20,000		20,000	
Subtotal Rate Revenues	\$	1,166,000	\$ 1,166,000	\$ 1,166,000	\$	1,166,000	\$	1,166,000	\$	1,166,000	
Operating Revenues											
Late Charges	\$	3,000	\$ 3,000	\$ 3,000	\$	3,000	\$	3,000	\$	3,000	
Subtotal Operating Revenues	\$	3,000	\$ 3,000	\$ 3,000	\$	3,000	\$	3,000	\$	3,000	
Non-Operating Revenues											
Other Non-Operating Revenue		1,000	1,000	1,000		1,000		1,000		1,000	
Interest Revenue		-	-	-		4,000		6,000		6,000	
Property Tax		290,000	280,000	270,000		260,000		250,000		250,000	
Subtotal Non-Operating Revenu	es\$	291,000	\$ 281,000	\$ 271,000	\$	265,000	\$	257,000	\$	257,000	
Total Revenues	\$	1,460,000	\$ 1,450,000	\$ 1,440,000	\$	1,434,000	\$	1,426,000	\$	1,426,000	

Table 86: Recycled Projected Revenues



Expenses

The FY 2023 budget was used as the utility's baseline expenses and adjusted in subsequent years based on the escalation factors shown in Table 84. Table 87 provides projected O&M expenses through the Financial Plan 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.

O&M Expenses	FY 2024	FY 2025	FY 2026	FY 2027		FY 2028	FY 2029
Operating Expenses							
Source of Supply	\$ 64,000	\$ 67,000	\$ 70,000	\$ 73,000	\$	77,000	\$ 80,000
General and Administrative	115,000	120,000	125,000	131,000		137,000	143,000
Salaries & Benefits	316,000	333,000	352,000	372,000		392,000	414,000
Transmission & Distribution	459,000	491,000	514,000	538,000		563,000	589,000
CalPERS & OPEB	17,000	16,000	15,000	14,000		13,000	13,000
Other Expenses	69,000	72,000	75,000	78,000		81,000	84,000
Subtotal Operating Expenses	\$ 1,040,000	\$ 1,099,000	\$ 1,151,000	\$ 1,206,000	\$	1,263,000	\$ 1,323,000
Debt Service							
Refinancing/New Proposed Debt	36,961	36,961	36,961	36,961		36,961	36,961
Subtotal Debt Service	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$	36,961	\$ 36,961
Total Expenses	\$ 1,076,961	\$ 1,135,961	\$ 1,187,961	\$ 1,242,961	\$	1,299,961	\$ 1,359,961

Table 87: Recycled Projected O&M Expenses

<u>Reserves</u>

For financial planning, similar reserve targets for water and wastewater were used, except for the rehabilitation fund. The rehabilitation target was set at a rolling 5-year average of upcoming capital due to the increase in capital spending planned. These reserves help mitigate risks to the utility by ensuring sufficient cash is on hand for daily operations and to fund annual system improvements. These reserves help smooth rates and mitigate rate spikes due to emergencies or above-average system costs. Table 88 summarizes the recommended minimum reserve requirements and the ideal funding targets of each reserve.

Table 88: Recycled Reserve Requirements and Targets

Reserve	Minimum Requirement	Reserve Target
Operating	90 days of operating costs	180 days of operating costs
Capital Replacement	Annual CIP based on 5-year average	2 years of CIP based on 5-year average
Rate Stabilization	20% of operating revenues	N/A

The reserve balance as of July 1, 2022, reflected a deficit of approximately (\$908k).



Financial Outlook at Existing Rates

Calculating revenue using existing rates and projecting expenses helps determines the current financial health of the utility. Revenues from existing rates are sufficient to fund O&M through the Financial Plan Period. However, only a portion of the system rehabilitation needs can be funded with projected net operating income resulting in a growing deficit shown as a negative reserve ending balance. Without rate increases, there would not be available funding for capital spending. Table 89 forecasts existing revenues and expenses through the Financial Plan Period. Table 90 identifies reserve transfers and reserves activity, with projected FY 2024 starting reserve balances shown for each reserve.

Rate Revenues S 82,000 S 1,066,000 S 1,166,000 S 1,166,000 S 1,166,000 S 1,000 S 3,000 S	Revenue		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Fixed Revenue S 82,000 S 1,000 S 1,166,000 S 1,166,000 S 1,166,000 S 1,000 S 1,000 S 3,000 S 3,000 S 3,000 S	Rate Revenues							
Variable Revenue Table 86 1,064,000 1,064,000 1,064,000 1,064,000 20,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000 \$ 3,000	Fixed Revenue		\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000	\$ 82,000
WRIS Revenue 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 \$ 20,000 \$ 20,000 \$ 20,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,166,000 \$ 1,160,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$	Variable Revenue	Table 86	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000	1,064,000
Total Rate Revenues \$ 1,166,000 \$ 1,000 \$ 3,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,426,000 \$ 1,	WRES Revenue		20,000	20,000	20,000	20,000	20,000	20,000
Operating Revenues Table 86 5 3,000 \$ 3,000	Total Rate Revenues		\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000	\$ 1,166,000
Late Charges Table 86 \$ 3,000	Operating Revenues							
Subtotal Operating Revenues \$ 3,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 265,000 \$ 255,000 \$ 257,000 \$ 257,000 \$ 257,000 \$ 257,000 \$ 1,426,000 <td>Late Charges</td> <td>Table 86</td> <td>\$ 3,000</td> <td>\$ 3,000</td> <td>\$ 3,000</td> <td>\$ 3,000</td> <td>\$ 3,000</td> <td>\$ 3,000</td>	Late Charges	Table 86	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Non-Operating Revenue Other Non-Operating Revenue Property Tax Table 86 1,000 290,000 1,000 280,000 1,000 270,000 1,000 260,000 1,000 250,000 1,426,000 1,426,000 1,426,000 1,4426,000 1,400,000 1,400,000 1,400,00 1,400,00	Subtotal Operating Revenues		\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000	\$ 3,000
Other Non-Operating Revenue Property Tax Table 86 \$ 1,000 \$	Non-Operating Revenues							
Property Tax Table 80 290,000 280,000 270,000 260,000 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 250,000 \$ 257,000 \$ 257,000 \$ 257,000 \$ 257,000 \$ 1,426,000 \$ 1,200,000 \$ 1,200,000	Other Non-Operating Revenue	Table 90	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
Subtotal Non-Operating Revenues \$ 291,000 \$ 281,000 \$ 271,000 \$ 265,000 \$ 257,000 \$ 257,000 \$ 257,000 \$ 1,426,000 \$ 1,434,000 \$ 1,426,000 \$ 1,426,000 \$ 1,434,000 \$ 1,426,000 \$ 1,430,000 \$ 1,430,000 \$ 1,430,000 \$ 1,400,000 \$	Property Tax	Table 86	290,000	280,000	270,000	260,000	250,000	250,000
Total Revenues \$ 1,460,000 \$ 1,450,000 \$ 1,434,000 \$ 1,426,000 \$ 1,426,000 O&M Expenses FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 Operating Expenses Source of Supply \$ 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 General and Administrative \$ 5 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 Source of Supply Trable 87 Table 87 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 Salaries & Benefits Trable 87 Table 87 64,000 \$ 333,000 352,000 372,000 \$ 392,000 441,000 \$ 1,426,000 \$ 491,000 \$ 1,400 538,000 \$ 563,000 \$ 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 \$ 1,206,000 \$ 1,223,000 \$ 1,223,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,151,000 \$ 1,263,000 \$ 1,323,000 Debt Service \$ 2000 7,250 \$ 3,625 \$ - \$ \$ - \$ \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 </td <td>Subtotal Non-Operating Revenues</td> <td></td> <td>\$ 291,000</td> <td>\$ 281,000</td> <td>\$ 271,000</td> <td>\$ 265,000</td> <td>\$ 257,000</td> <td>\$ 257,000</td>	Subtotal Non-Operating Revenues		\$ 291,000	\$ 281,000	\$ 271,000	\$ 265,000	\$ 257,000	\$ 257,000
O&M Expenses FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 Operating Expenses Source of Supply \$ 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 General and Administrative \$ 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 Salaries & Benefits Table 87 Table 87 459,000 491,000 514,000 538,000 563,000 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 13,000 13,000 13,000 14,000 Cher Expenses 69,000 72,000 575,000 78,000 8 1,020 84,000 84,000 84,000 84,000 84,000 84,000 84,000 84,000 84,000 84,000 84,000 84,000 84,000 8 1,040,000 \$ 1,099,000 \$ 1,126,000 \$ 1,263,000 \$ 1,233,000 8 1,223,000 8 1,223,000 8 1,223,000 8 1,223,000 \$ 1,263,000 \$ 1,263,000 \$ 1,233,000 \$ 1,263,000 \$ 1,223,000	Total Revenues		\$ 1,460,000	\$ 1,450,000	\$ 1,440,000	\$ 1,434,000	\$ 1,426,000	\$ 1,426,000
O&M Expenses FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 Operating Expenses Source of Supply \$ 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 General and Administrative 115,000 125,000 131,000 137,000 143,000 Salaries & Benefits 316,000 333,000 352,000 372,000 \$ 663,000 563,000 563,000 563,000 144,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 13,000 13,000 13,000 144,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,206,000 \$ 1,263,000 \$ 1,233,000 Debt Service \$ 1,040,000 \$ 1,099,000 \$ 1,206,000 \$ 1,263,000 \$ 1,233,000 Subtotal Operating Expenses \$ 1,040,000 \$ 3,6961 \$ 36,961								
Operating Expenses \$ 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 General and Administrative 115,000 120,000 125,000 131,000 137,000 \$ 80,000 Salaries & Benefits Table 87 316,000 333,000 352,000 372,000 392,000 414,000 Transmission & Distribution Table 87 459,000 491,000 514,000 538,000 563,000 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 13,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,151,000 \$ 1,263,000 \$ 1,323,000 Debt Service Table 87 \$ 7,250 \$ 3,625 \$ - \$ 5 3,6961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961	O&M Expenses		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Source of Supply \$ 64,000 \$ 67,000 \$ 73,000 \$ 77,000 \$ 80,000 General and Administrative 115,000 120,000 125,000 131,000 137,000 \$ 80,000 Salaries & Benefits 316,000 333,000 352,000 372,000 \$ 392,000 414,000 Transmission & Distribution CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 563,000 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 13,000 84,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,210,000 \$ 1,226,000 \$ 1,223,000 Debt Service \$ 1,040,000 \$ 1,099,000 \$ 1,2151,000 \$ 1,263,000 \$ 1,323,000 Subtotal Debt Service \$ 1,040,000 \$ 3,6961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961	Operating Expenses							
General and Administrative 115,000 120,000 125,000 131,000 137,000 143,000 Salaries & Benefits 316,000 333,000 352,000 372,000 392,000 414,000 Transmission & Distribution 459,000 491,000 514,000 538,000 563,000 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 13,000 Other Expenses 69,000 72,000 75,000 78,000 81,000 84,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,206,000 \$ 1,263,000 \$ 1,323,000 Debt Service Table 87 \$ 7,250 \$ 3,625 \$ \$ \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,9	Source of Supply		\$ 64,000	\$ 67,000	\$ 70,000	\$ 73,000	\$ 77,000	\$ 80,000
Salaries & Benefits Table 87 316,000 333,000 352,000 372,000 392,000 414,000 Transmission & Distribution 459,000 491,000 514,000 538,000 563,000 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 Other Expenses 69,000 72,000 75,000 78,000 81,000 84,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,206,000 \$ 1,263,000 \$ 1,323,000 Debt Service Credit Line Table 87 \$ 7,250 \$ 36,961	General and Administrative		115,000	120,000	125,000	131,000	137,000	143,000
Transmission & Distribution Table 67 459,000 491,000 514,000 538,000 563,000 589,000 CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 Other Expenses 69,000 72,000 75,000 78,000 \$ 1,263,000 \$ 1,323,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,151,000 \$ 1,263,000 \$ 1,323,000 Debt Service Credit Line Table 87 \$ 7,250 \$ 3,625 \$ - \$ \$ - \$ \$ - \$ Refinancing/New Proposed Debt Table 87 \$ 36,961	Salaries & Benefits	Table 87	316,000	333,000	352,000	372,000	392,000	414,000
CalPERS & OPEB 17,000 16,000 15,000 14,000 13,000 13,000 Other Expenses 69,000 72,000 75,000 78,000 81,000 84,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,151,000 \$ 1,263,000 \$ 1,323,000 Debt Service Credit Line Table 87 \$ 7,250 \$ 3,625 \$ - \$ - \$ 1,263,000 \$ 1,369,61 \$ 36,96	Transmission & Distribution	Table 07	459,000	491,000	514,000	538,000	563,000	589,000
Other Expenses 69,000 72,000 75,000 78,000 81,000 84,000 Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,151,000 \$ 1,263,000 \$ 1,323,000 Debt Service Credit Line Refinancing/New Proposed Debt Table 87 \$ 7,250 \$ 3,625 \$ \$ \$ 36,961 \$ 36,96	CalPERS & OPEB		17,000	16,000	15,000	14,000	13,000	13,000
Subtotal Operating Expenses \$ 1,040,000 \$ 1,099,000 \$ 1,151,000 \$ 1,263,000 \$ 1,	Other Expenses		69,000	72,000	75,000	78,000	81,000	84,000
Debt Service Credit Line Refinancing/New Proposed Debt Table 87 \$ 7,250 \$ 3,625 \$ - \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961	Subtotal Operating Expenses		\$ 1,040,000	\$ 1,099,000	\$ 1,151,000	\$ 1,206,000	\$ 1,263,000	\$ 1,323,000
Credit Line Refinancing/New Proposed Debt Table 87 \$ 7,250 \$ 3,625 \$ - \$ 36,961	Debt Service							
Refinancing/New Proposed Debt Table 0' \$ 36,961 \$	Credit Line	Table 87	\$ 7,250	\$ 3,625	\$ -	\$ -	\$ -	\$ -
Subtotal Debt Service \$ 44,211 \$ 40,586 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 \$ 36,961 Total Expenses \$ 1,084,211 \$ 1,139,586 \$ 1,187,961 \$ 1,242,961 \$ 1,299,961 \$ 1,359,961 Net Cashflow \$ 375,789 \$ 310,414 \$ 252,039 \$ 191,039 \$ 126,039 \$ 66,039	Refinancing/New Proposed Debt	Table 07	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961
Total Expenses \$ 1,084,211 \$ 1,139,586 \$ 1,187,961 \$ 1,242,961 \$ 1,299,961 \$ 1,359,961 Net Cashflow \$ 375,789 \$ 310,414 \$ 252,039 \$ 191,039 \$ 126,039 \$ 66,039	Subtotal Debt Service		\$ 44,211	\$ 40,586	\$ 36,961	\$ 36,961	\$ 36,961	\$ 36,961
Net Cashflow \$ 375,789 \$ 310,414 \$ 252,039 \$ 191,039 \$ 126,039 \$ 66,039	Total Expenses		\$ 1,084,211	\$ 1,139,586	\$ 1,187,961	\$ 1,242,961	\$ 1,299,961	\$ 1,359,961
	Net Cashflow		\$ 375,789	\$ 310,414	\$ 252,039	\$ 191,039	\$ 126,039	\$ 66,039

Table 89: Recycled Financial Plan at Existing Rates



Operating/Working Capital	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ (542,569)	\$ (166,780)	\$ 143,634	\$ 283,808	\$ 297,370	\$ 311,425
Transfers (Net Cashflow)	375,789	310,414	252,039	191,039	126,039	66,039
Transfers from/(to) Capital Reserve	-	-	(111,865)	(177,477)	(111,984)	(51,244)
Ending Balance	\$ (166,780)	\$ 143,634	\$ 283,808	\$ 297,370	\$ 311,425	\$ 326,219
Capital Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ (221,206)	\$ (221,206)	\$ (475,246)	\$ (1,507,215)	\$ (1,696,653)	\$ (1,833,509)
<u>Plus:</u>						
Transfers from/(to) Operating/Working Capital	-	-	111,865	177,477	111,984	51,244
Grant Revenue	-	194,750	-	-	-	-
Use of Existing Debt Proceeds	220,347	100,353	-	-	-	-
Less:						
CIP	(220,347)	(549,143)	(1,143,834)	(366,915)	(248,840)	(1,733,318)
Transfers from/(to) Recycled Water Rate Stabilization Reserve	-	-	-	-	-	-
Subtotal Capital Reserve	\$ (221,206)	\$ (475,246)	\$ (1,507,215)	\$ (1,696,653)	\$ (1,833,509)	\$ (3,515,582)
Interest Earnings	-	-	-	-	-	-
Ending Balance	\$ (221,206)	\$ (475,246)	\$ (1,507,215)	\$ (1,696,653)	\$ (1,833,509)	\$ (3,515,582)
Recycled Water Rate Stabilization Reserve	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers from/(to) Capital Reserve	-	-	-	-	-	-
Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ending Unrestricted Reserves Balance	\$ (387,986)	\$ (331,612)	\$ (1,223,407)	\$ (1,399,283)	\$ (1,522,084)	\$ (3,189,363)

Table 90: Recycled – Transfers and Reserve Activity at Existing Rates

Figure 23 illustrates the operating position of the utility, where O&M expenses are identified with the dashed red trendline, and total revenues at existing rates are shown by the horizontal black trendline. The bars represent the amount of net operating income available. Figure 24 reflects the projected ending balances of reserves after operating, and capital projects are funded through the Financial Plan Period.



Figure 23: Recycled Current Operating Financial Position





Figure 24: Recycled Projected Ending Reserves at Existing Rates



Proposed Financial Plan – Recycled 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. Based on funding the capital plan and ensuring reserves meet minimum targets over the Rate Setting Period, Table 91 forecasts projected revenues and expenses over the Financial Plan Period.



Revenue					FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
Rate Reve	nues														
Fixed Reve	enue			\$	82,000	\$	82,000	\$	82,000	\$	82,000	\$	82,000	\$	82,000
Variable R	Revenue		Table 86		1,064,000		1,064,000		1,064,000		1,064,000		1,064,000		1,064,000
WRES Rev	venue				20,000		20,000		20,000		20,000		20,000		20,000
Total Rate	Revenues			\$	1,166,000	\$	1,166,000	\$	1,166,000	\$	1,166,000	\$	1,166,000	\$	1,166,000
Additional	Revenue (fr	om revenu	e adjustment:	s):											
Fiscal Year	Revenue Adiustment	Effective Month													
FY 2024	20.0%	July	-		233,000		233,000		233,000		233,000		233,000		233,000
FY 2025	20.0%	July			,		279,000		279,000		279,000		279,000		279,000
FY 2026	20.0%	July					,		335,000		335,000		335,000		335,000
FY 2027	15.0%	July							,		301.000		301.000		301.000
FY 2028	10.0%	Julv									,		231.000		231.000
FY 2029	0.0%	Julv											,		,
Total Additio	onal Revenue	,		\$	233,000	\$	512,000	\$	847,000	\$	1,148,000	\$	1,379,000	\$	1,379,000
Projected	Rate Reven	ues		\$	1,399,000	\$	1,678,000	\$	2,013,000	\$	2,314,000	\$	2,545,000	\$	2,545,000
Onerating	Revenues														
Late Char	ges		Table 86	Ś	3.000	Ś	3.000	Ś	3.000	Ś	3.000	Ś	3.000	Ś	3.000
Subtotal	Operating F	Revenues		\$	3,000	\$	3,000	\$	3,000	\$	3,000	\$	3,000	\$	3,000
Non-Onera	ting Reven	100													
Other Nor				¢	1 000	¢	1 000	¢	1 000	¢	1 000	¢	1 000	¢	1 000
Property T	Foperating its	evenue	Table 86	Ŷ	290.000	Ŷ	280.000	Ŷ	270.000	Ŷ	260,000	Ŷ	250,000	Ŷ	250,000
Subtotal	Non-Onerat	ing Reve		ć	290,000	¢	281,000	¢	274,000	ć	267,000	¢	257,000	ć	267,000
			1405	-		¥		¥		÷		-		- -	
Total Reve	enues			Ş	1,693,000	Ş	1,962,000	Ş	2,290,000	Ş	2,584,000	Ş	2,805,000	Ş	2,815,000
O&M Expe	nses				FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
Operating	Expenses														
Source of	Supply			\$	64,000	\$	67,000	\$	70,000	\$	73,000	\$	77,000	\$	80,000
General a	nd Administra	ative			115,000		120,000		125,000		131,000		137,000		143,000
Salaries &	Benefits		Table 97		316,000		333,000		352,000		372,000		392,000		414,000
Transmiss	ion & Distribu	ution	Table of		459,000		491,000		514,000		538,000		563,000		589,000
CalPERS &	A OPEB				17,000		16,000		15,000		14,000		13,000		13,000
Other Exp	enses				69,000		72,000		75,000		78,000		81,000		84,000
Subtotal O	perating Ex	penses		\$	1,040,000	\$	1,099,000	\$	1,151,000	\$	1,206,000	\$	1,263,000	\$	1,323,000
Debt Servi	ce														
Credit Line	e		T 11 07	\$	7,250	\$	3,625	\$	-	\$	-	\$	-	\$	-
Refinancir	ng/New Propo	osed Debt	lable 87	\$, 73,922	\$	73,922	\$	73,922	\$	73,922	\$	73,922	, \$	73,922
Subtotal D	ebt Service			\$	81,172	\$	77,547	\$	73,922	\$	73,922	\$	73,922	\$	73,922
Total Expe	enses			\$	1,121,172	\$	1,176,547	\$	1,224,922	\$	1,279,922	\$	1,336,922	\$	1,396,922
Net Cashfl	ow			\$	571,828	\$	785,453	\$	1,065,078	\$	1,304,078	\$	1,468,078	\$	1,418,078

Table 91: Recycled Proposed Financial Plan

On another within a later of One trail		510000		FV000F		51/0000		51/0007		51/0000		EVANA
Operating/ working Capital		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
Beginning Balance	\$	(542,569)	\$	29,259	\$	270,986	\$	283,808	\$	297,370	\$	311,425
Transfers (Net Cashflow)		571,828		785,453		1,065,078		1,304,078		1,468,078		1,418,078
Transfers from/(to) Capital Reserve		-		(543,726)		(1,052,256)		(1,290,516)		(1,454,023)		(1,403,283)
Ending Balance	\$	29,259	\$	270,986	\$	283,808	\$	297,370	\$	311,425	\$	326,219
Capital Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
Beginning Balance	\$	(221,206)	\$	279,370	\$	577,540	\$	496,597	\$	1,439,366	\$	1,662,101
<u>Plus:</u>												
Transfers from/(to) Operating/Working Capital		-		543,726		1,052,256		1,290,516		1,454,023		1,403,283
Grant Revenue		-		194,750		-		-		-		-
Use of Existing Debt Proceeds		220,347		100,353		-		-		-		-
Less:												
CIP		(220,347)		(549,143)		(1,143,834)		(366,915)		(248,840)		(1,733,318)
Transfers from/(to) Recycled Water Rate Stabilization Reserve		-		-		-		-		(1,013,155)		-
Subtotal Capital Reserve	\$	278,794	\$	569,055	\$	485,962	\$	1,420,198	\$	1,631,394	\$	1,332,067
Interest Earnings		576		8,484		10,635		19,168		30,708		29,942
Ending Balance	\$	279,370	\$	577,540	\$	496,597	\$	1,439,366	\$	1,662,101	\$	1,362,009
Recycled Water Rate Stabilization Reserve		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
Beginning Balance	Ś		Ś	-	Ś	-	Ś	-	Ś		Ś	1.013.155
Transfers from/(to) Capital Reserve	·	-	·	-		-		-		1,013,155	·	-
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	1,013,155	\$	1,013,155
Ending Unrestricted Reserves Balance	\$	308,629	\$	848,526	\$	780,405	\$	1,736,736	\$	2,986,681	\$	2,701,383

Table 92: Recycled Transfers and Reserve Activity



Figure 25 identifies the operating position based on the proposed financial plan, and Figure 26 show the capital plan with funding sources. Figure 27 identifies the ending reserve balances.



Figure 25: Recycled Proposed Operating Position

Figure 26: Recycled Capital Improvement Plan with Funding Sources







Figure 27: Recycled Proposed Ending Reserves



Cost-of-Service Analysis – Recycled Utility

Cost-of-Service Process

The next step in developing recycled rates is to perform a cost-of-service analysis. Through this process, costs incurred are allocated to customers based on their proportional share. As a result, proposed rates are cost-based and reflect the costs incurred to provide service to customers.

Revenue Requirements

FY 2024 revenue requirements were used for the cost-of-service analysis. Revenue requirements include O&M expenses, treatment plant expenses, debt, revenue offsets, and reserve funding. The proposed revenue adjustments and corresponding rates accumulate the necessary funding over the Rate Setting Period to fund O&M, capital projects, and comply with minimum reserve requirements by FY 2027. The results of the financial plan analysis are summarized in Table 93 and represent the revenue required from rates over the Rate Setting Period.

		FY 2024	_	FY 2025	_	FY 2026	_	FY 2027	_	FY 2028
Revenue Requirements		Total								
Operating Expenses										
Source of Supply	\$	64,000	\$	67,000	\$	70,000	\$	73,000	\$	77,000
General and Administrative		115,000		120,000		125,000		131,000		137,000
Salaries & Benefits		316,000		333,000		352,000		372,000		392,000
Transmission & Distribution		459,000		491,000		514,000		538,000		563,000
CalPERS & OPEB		17,000		16,000		15,000		14,000		13,000
Other Expenses		69,000		72,000		75,000		78,000		81,000
Total Operating Expenses	\$	1,040,000	\$	1,099,000	\$	1,151,000	\$	1,206,000	\$	1,263,000
Debt Service										
Credit Line	\$	7,250	\$	3,625	\$	-	\$	-	\$	-
Refinancing/New Proposed Debt	•	73,922		73,922	•	73,922		73,922	·	73,922
Total Debt Service	\$	81,172	\$	77,547	\$	73,922	\$	73,922	\$	73,922
Total Operating Expenditures	\$	1,121,172	\$	1,176,547	\$	1,224,922	\$	1,279,922	\$	1,336,922
Revenue Offsets										
Operating Revenues	\$	(3,000)	\$	(3,000)	\$	(3,000)	\$	(3,000)	\$	(3,000)
Non-Operating Revenues		(291,000)		(281,000)		(274,000)		(267,000)		(257,000)
Total Revenue Offsets	\$	(294,000)	\$	(284,000)	\$	(277,000)	\$	(270,000)	\$	(260,000)
Adjustments										
Reserve Funding	\$	571,828	\$	785,453	\$	1,065,078	\$	1,304,078	\$	1,468,078
Total Adjustments	\$	571,828	\$	785,453	\$	1,065,078	\$	1,304,078	\$	1,468,078
Revenue Requirement from Rates		\$1,399,000		\$1,678,000		\$2,013,000		\$2,314,000		\$2,545,000

Table 93: Recycled Revenue Requirements



Rate Design – Recycled Utility

Currently, recycled fixed charges are set at 100% of potable fixed charges; however, given the proposed revenue adjustments within the water utility and the shift in fixed cot recovery from 31% up to approximately 40%, maintaining the 100% equivalency would cause recycled variable rates to reduce substantially. Therefore, based on direction from District Staff, Recycled fixed charges will be set to 55% of potable, with the remaining multi-year revenue requirements recovered from variable rates. to cover the cost of providing service. Therefore, the amount of annual revenues generated by the meter rates for each fiscal year are determined and then used to derive variable rates for the Rate Setting Period.

Fixed Cost Recovery

Table 94 derives the recycled monthly meter charges based on 55% potable meter charges over the Rate Setting Period and calculates total revenue generated by the proposed fixed charges based on the meter counts by size in Table 83.

Potable Fixed Meter	Charges (\$/	Month)			
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$ 46.84	\$ 55.28	\$ 65.24	\$ 71.77	\$ 78.95
3/4"	46.84	55.28	65.24	71.77	78.95
1"	94.93	112.02	132.19	145.41	159.96
1 1/2"	175.08	206.60	243.79	268.17	294.99
2"	271.26	320.09	377.71	415.49	457.04
3"	575.83	679.48	801.79	881.97	970.17
4"	1024.67	1,209.12	1,426.77	1,569.45	1,726.40
6"	2098.68	2,476.45	2,922.22	3,214.45	3,535.90
8"	4503.18	5,313.76	6,270.24	6,897.27	7,587.00
10"	6747.38	7,961.91	9,395.06	10,334.57	11,368.03
% of Potable	55.0%	55.0%	55.0%	55.0%	55.0%
Recycled Fixed Mete	r Charges (\$	5/Month)			
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$ 25.76	\$ 30.40	\$ 35.88	\$ 39.47	\$ 43.42
3/4"	25.76	30.40	35.88	39.47	43.42
1"	52.21	61.61	72.70	79.98	87.98
1 1/2"	96.29	113.63	134.08	147.49	162.24
2"	149.19	176.05	207.74	228.52	251.37
3"	316.71	373.71	440.98	485.08	533.59
4"	563.57	665.02	784.72	863.20	949.52
6"	1,154.27	1,362.05	1,607.22	1,767.95	1,944.75
8"	2,476.75	2,922.57	3,448.63	3,793.50	4,172.85
10"	3,711.06	4,379.05	5,167.28	5,684.01	6,252.42
Total	\$149,050	\$175,880	\$207,539	\$228,294	\$251,123

Table 94: Proposed Recycled Monthly Meter Charges



Variable Cost Recovery

Table 95 derives the proposed variable rates by taking the total revenue requirement identified in Table 93 and reducing the amount by total fixed revenue calculated in Table 94. The net amount is divided by total recycled water sales to determine the recycled variable rate for the Rate Setting Period.

Proposed Recycled Variable Rate	es (\$/HCF)				
Variable Rates	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Recycled Revenue Requirement	\$ 1,399,000	\$ 1,678,000	\$ 2,013,000	\$ 2,314,000	\$ 2,545,000
Less: Projected Revenue from Fixed	(149,050)	(175,880)	(207,539)	(228,294)	(251,123)
Variable Revenue Requirement	\$ 1,249,950	\$ 1,502,120	\$ 1,805,461	\$ 2,085,706	\$ 2,293,877
÷ Units of Service (Projected Non-Potable Usage)	306,630	306,630	306,630	306,630	306,630
Recycled	\$4.08	\$4.90	\$5.89	\$6.81	\$7.49

Table 95: Proposed Recycled Variable Rates



Cost-Based Rates – Water, Wastewater, and Recycled

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, wastewater, and recycled fixed charges and variable rates. Proposition 218 requires the following conditions:

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

The long-term financial plan identifies 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, wastewater, and recycled utilities are separate business enterprises to track revenues and expenses and does not fund other services of those necessary for the provision of water, wastewater, and recycled.

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 proportionate share of water, wastewater, and recycled costs. Through this update, each account is paying for the cost of providing service to the 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.

The proposed fixed charges and variable rates connect directly to the District's budget for each utility and projected future revenue requirements of the water, wastewater, and recycled utilities, which are recovered equitably from all active accounts receiving service.

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 at least 45 days before the June 28, 2023, Public Hearing.

The proposed water, wastewater, and recycled water 5-year rate schedules (FY 2024 through FY 2028) are shown in the following section. If a majority protest does not exist at the June 28th Public Hearing, the District Board may adopt the rates with an effective date of July 1, 2023.



Rate Schedules – Water, Wastewater, and Recycled

<u>Water</u>

Table 96 through Table 98 provide the five-year water rate schedule over the Rate Setting Period for monthly fixed charges, variable rates, and variable pumping 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.

Potable Fixed	Met	er Charg	es ((\$/Montl	า)					
Revenue Adjusm	ntent:			18%		18%		10%		10%
Meter Size	F	2024	F	2025	F	Y 2026	F	(2027	F١	(2028
5/8"	\$	46.84	\$	55.28	\$	65.24	\$	71.77	\$	78.95
3/4"		46.84		55.28		65.24		71.77		78.95
1"		94.93		112.02		132.19		145.41		159.96
1 1/2"		175.08		206.60		243.79		268.17		294.99
2"		271.26		320.09		377.71		415.49		457.04
3"		575.83		679.48		801.79		881.97		970.17
4"		1,024.67		1,209.12		1,426.77		1,569.45		1,726.40
6"		2,098.68		2,476.45		2,922.22		3,214.45		3,535.90

Table 96: Proposed Water Monthly Fixed Charge (FY 2024 – FY 2028)

Table 97: Proposed Water Variable Charge (FY 2024 – FY 2028)

Potable Variable I	Rates (\$/HC	F)							
Revenue Adjusmtent				18%		18%		10%		10%
Customer Class	FY 20)24	FY 2	025	FY 2	026	FY 20)27	FY 20)28
Single-Family										
Tier 1	\$	4.40	\$	5.20	\$	6.14	\$	6.76	\$	7.44
Tier 2		5.12		6.05		7.14		7.86		8.65
Tier 3		5.64		6.66		7.86		8.65		9.52
Multi-Family										
Tier 1	\$	4.62	\$	5.46	\$	6.45	\$	7.10	\$	7.81
Tier 2		5.64		6.66		7.86		8.65		9.52
Commercial	\$	4.73	\$	5.59	\$	6.60	\$	7.26	\$	7.99
Irrigation	\$	4.73	\$	5.59	\$	6.60	\$	7.26	\$	7.99
Agricultural	\$	4.73	\$	5.59	\$	6.60	\$	7.26	\$	7.99
Portola Hills	\$	5.25	\$	6.20	\$	7.32	\$	8.06	\$	8.87



Pumping Variable Rates (\$	/HCF)				
Revenue Adjusmtent:		18%	18%	10%	10%
Pumping Zone	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Zone 1 - Base	\$ -	\$-	\$-	\$-	\$ -
Zone 2 - Topanga / Saddlecrest	0.53	0.63	0.75	0.83	0.92
Zone 3 - Canyon Creek	0.94	1.11	1.31	1.45	1.60
Zone 4 - Falcon	1.44	1.70	2.01	2.22	2.45
Zone 5 - Joplin	0.14	0.17	0.21	0.24	0.27

Table 98: Proposed Water Variable Pumping Rates (FY 2024 – FY 2028)

Wastewater

Table 99 provides the five-year wastewater rate schedule over the Rate Setting Period for monthly fixed charges and variable rates. 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 99: Proposed Wastewater Monthly Fixed Charge (FY 2024 – FY 2028)

Wastewater Rates	;									
Revenue Adjustment:				16.0%		16.0%		12.0%		12.0%
Flat Charges (\$/M	onth)								
Customer Class	FY	2024	FY	2025	F١	(2026	F	Y 2027	F١	2028
Residential	\$	45.92	\$	53.27	\$	61.80	\$	69.22	\$	77.53
Commercial	\$	12.58	\$	14.60	\$	16.94	\$	18.98	\$	21.26
Variable Rates (\$/	HCF))								
Commercial										
Low	\$	4.78	\$	5.55	\$	6.44	\$	7.22	\$	8.09
Medium		8.00		9.28		10.77		12.07		13.52
High		12.36		14.34		16.64		18.64		20.88



Recycled

Table 100 and Table 101 provide the five-year recycled fixed charges and variable rates over the Rate Setting Period, respectively. For FY 2025 through FY 2028, fixed charges are 55% or potable rates and the remaining revenue requirements for recycled services are recovered from the variable rates.

% of Potable	55.0%	55.0%	55.0%	55.0%	55.0%
Non-Potable Fix	ed Meter Charges	(\$/Month)			
Meter Size	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
5/8"	\$ 25.45	\$ 30.03	\$ 35.44	\$ 38.98	\$ 42.88
3/4"	25.45	30.03	35.44	38.98	42.88
1"	51.11	60.32	71.18	78.30	86.14
1 1/2"	93.89	110.79	130.74	143.81	158.19
2"	145.22	171.36	202.21	222.44	244.68
3"	307.77	363.18	428.55	471.41	518.55
4"	547.32	645.84	762.09	838.30	922.14
6"	1,120.52	1,322.22	1,560.22	1,716.24	1,887.87
8"	2,403.81	2,836.50	3,347.07	3,681.78	4,049.96
10"	3,601.54	4,249.82	5,014.80	5,516.28	6,067.91
Total	\$144,784	\$170,846	\$201,600	\$221,760	\$243,937

 Table 100: Proposed Recycled Monthly Fixed Charge (FY 2024 – FY 2028)

Table 101: Proposed Recycled Variable Rates (FY 2024 – FY 2028
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Proposed Recycled Variable Rates (\$/HCF)											
Variable Rate Analysis	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028						
Recycled Revenue Requirement	\$ 1,399,000	\$ 1,678,000	\$ 2,013,000	\$ 2,314,000	\$ 2,545,000						
Less: Projected Revenue from Fixed	(144,784)	(170,846)	(201,600)	(221,760)	(243,937)						
Variable Revenue Requirement	\$ 1,254,216	\$ 1,507,154	\$ 1,811,400	\$ 2,092,240	\$ 2,301,063						
+ Units of Service (Projected Non-Potable Usage)	306,630	306,630	306,630	306,630	306,630						
Proposed Variable Rates	\$4.10	\$4.92	\$5.91	\$6.83	\$7.51						



Appendix A – Water Supply Analysis

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Key Inputs / Assumptions		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		
Water Loss	7.1% 7.1%		7.1%	7.1%			7.1%		7.1%			
Purchased Water Rates		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		
Variable Purchased Water Costs (\$/AF)												
Baker (BTP)	ć	000	ć	OEO	ć	OEO	ć	OEO	ć	000		
SAC Operational Surcharge	Ş	0.00	Ş	0.00	Ş	0.00	Ş	0.00	Ş	0.00		
SCP Operational Surcharge		8.1/		8 14		8 1/		8.14		8.14		
SMWD - Treated		0.14		0.14		0.14		0.14		0.14		
Commodity Rate	Ś	1.209	Ś	1.209	Ś	1.209	Ś	1.209	Ś	1.209		
SCP Operational Surcharge		, 8.14		8.14	'	8.14	'	8.14	,	8.14		
IRWD - Treated												
Treated Commodity Rate	\$	1,209	\$	1,209	\$	1,209	\$	1,209	\$	1,209		
SCP Operational Surcharge		0.00		0.00		0.00		0.00		0.00		
Pumping Surcharge		152		152		152		152		152		
Dimension (DWTP)												
Untreated Commodity Rate	\$	858	\$	858	\$	858	\$	858	\$	858		
SAC Operational Surcharge		0.97		0.97		0.97		0.97		0.97		
Portola Hills												
Commodity Rate	\$	1,396	\$	1,396	\$	1,396	\$	1,396	\$	1,396		
City of San Clemente												
BTP Commodity Rate	\$	855	\$	855	\$	855	\$	855	\$	855		
Fixed Purchased Water Costs		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		
MWDOC												
Capacity Charge - 1st Half (Jul - Dec)	\$	28,796	\$	28,796	\$	28,796	\$	28,796	\$	28,796		
Capacity Charge - 2nd Half (Jan - Jun)		28,796		28,796		28,796		28,796		28,796		
Readiness to Serve		166,838		166,838		166,838		166,838		166,838		
Annual Connection Fees		56,073		56,073		56,073		56,073		56,073		
SMWD		12 101		12 101		12 101		12 101		12 101		
Chiquita Fixed O&M		12,191		12,191		12,191		12,191		12,191		
		2,952		2,952		2,952		2,952		2,952		
		205 227		205 227		205 227		205 227		205 227		
BTP Standby Charge		13 878		13 878		13 878		13 878		13 878		
Portola Hills		15,070		15,676		15,676		15,676		13,070		
Fixed Charge		43.541		43.541		43.541		43.541		43.541		
Subtotal Fixed Purchased Water Costs	\$	658,291	\$	658,291	\$	658,291	\$	658,291	\$	658,291		
Variable Purchased Water Costs		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		
Total Billings/Sales (AF)		2,323 AF		2,323 AF		2,323 AF		2,323 AF		2,323 AF		
Portola Sales (AF)		145 AF		145 AF		145 AF		145 AF		145 AF		
Sales less Portola		2,178 AF		2,178 AF		2,178 AF		2,178 AF		2,178 AF		
Water Purchases (AF)												
TCWD Demand (AF) (including water loss)		2.344 AF		2.344 AF		2.344 AF		2.344 AF		2.344 AF		
Baker (BTP)		368 AF		368 AF		368 AF		368 AF		368 AF		
SMWD - Treated		26 AF		26 AF		26 AF		26 AF		26 AF		
IRWD - Treated		591 AF		591 AF		591 AF		591 AF		591 AF		
Dimension (DWTP)		1,359 AF		1,359 AF		1,359 AF		1,359 AF		1,359 AF		
Portola Hills		145 AF		145 AF		145 AF		145 AF		145 AF		
Water Sales - BTP		867 AF		867 AF		867 AF		867 AF		867 AF		
Calculated Variable Purchased Water Costs												
TCWD												
Baker (BTP)	\$	319,442	\$	319,442	\$	319,442	\$	319,442	\$	319,442		
SMWD - Treated		31,633		31,633		31,633		31,633		31,633		
IRWD - Treated		804,895		804,895		804,895		804,895		804,895		
Dimension (DWTP)		1,167,189		1,167,189		1,167,189		1,167,189		1,167,189		
Portola Hills		201,954		201,954		201,954		201,954		201,954		
Water Sales - BTP	-	741,392	_	741,392		741,392		741,392	_	741,392		
lotal Calculated Variable Purchased Water Costs	Ş	3,266,506	Ş	3,266,506	Ş	3,266,506	Ş	3,266,506	Ş	3,266,506		
Pumping Costs												
T&D - Electricity	\$	263,412	\$	284,485	\$	298,709	\$	313,645	\$	329,327		
Subtotal Pumping Costs	Ş	263,412	Ş	284,485	Ş	298,709	Ş	313,645	Ş	329,327		

Table 102: Water Supply Analysis

Purchased Water Costs Summary	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Fixed Purchased Water Costs					
MWDOC	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000	\$ 281,000
SMWD	16,000	16,000	16,000	16,000	16,000
IRWD	320,000	320,000	320,000	320,000	320,000
Portola Hills	44,000	44,000	44,000	44,000	44,000
Subtotal Fixed Purchased Water Costs	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000	\$ 661,000
Variable Purchased Water Costs					
TCWD					
Baker (BTP)	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000	\$ 320,000
SMWD - Treated	32,000	32,000	32,000	32,000	32,000
IRWD - Treated	805,000	805,000	805,000	805,000	805,000
Dimension (DWTP)	1,168,000	1,168,000	1,168,000	1,168,000	1,168,000
Portola Hills	202,000	202,000	202,000	202,000	202,000
Water Sales - BTP	742,000	742,000	742,000	742,000	742,000
Subtotal Variable Purchased Water Costs	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000	\$ 3,269,000
Pumping Costs					
T&D - Electricity	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Subtotal Pumping Costs	\$ 264,000	\$ 285,000	\$ 299,000	\$ 314,000	\$ 330,000
Total Water Supply Costs	\$ 4,194,000	\$ 4,215,000	\$ 4,229,000	\$ 4,244,000	\$ 4,260,000

Table 103: Water Supply Analysis Summary

