

SAN FRANCISCO PUBLIC UTILITIES COMMISSION 2023 Water and Wastewater Rate Study

DRAFT REPORT / APRIL 28, 2023







April 28, 2023

Ms. Erin Corvinova Financial Planning Director, Financial Services San Francisco Public Utilities Commission

Subject: 2023 Water and Wastewater Rate Study

Dear Ms. Corvinova:

Raftelis Financial Consultants, Inc. (Raftelis) is pleased to provide this Water and Wastewater Rate Study Report to the SFPUC. This report explains the methodologies and rationale used to develop a rate revenue requirement and rates for water and wastewater service for SFPUC retail customers.

The major study objectives include the following:

- Develop a financial plan
- Conduct a cost of service analysis for water and wastewater services
- Develop fair, and equitable, water and wastewater rates over a three-year period
- Conduct a customer impact analysis for the proposed water and wastewater rates

It has been a pleasure working with you and we appreciate the support you, Matthew Freiberg, and other SFPUC staff have provided during this study.

Sincerely,

Steve Gagnon, PE (AZ)

Vice President

John Wright, CPA (CO)

Senior Manager

John Wegt

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Glossary

Terms	Descriptions			
AF	Acre foot / Acre feet, 1 AF = 435.6 hundred cubic feet			
AWSS	Alternative Water Supply System			
AWWA	American Water Works Association			
CAP	Customer Assistance Program			
CCF	Hundred cubic feet or 100 cubic feet, 1 CCF = 748 gallons			
CIP	Capital Improvement Program			
COD	Chemical Oxygen Demand			
COS	Cost of Service			
FY	Fiscal Year (July 1 – June 30)			
GPM	Gallons per Minute			
M1 Manual	Principles of Water Rates, Fees, and Charges: Manual of Water Supply Practices M1,			
	Seventh Edition (published by the AWWA)			
Max Day	Maximum daily water demand over a one-year period			
Max Month	Maximum monthly water demand over a one-year period			
Monthly Service Charge	A fixed monthly charge assessed on both the water and wastewater bills.			
MME	McGovern McDonald Engineers			
O&M	Operations and Maintenance			
OG	Oil and Grease			
Raftelis	Raftelis Financial Consultants, Inc.			
SFPUC	San Francisco Public Utilities Commission			
SIC	Standard Industrial Classification			
SRF	Clean Water or Drinking Water State Revolving Fund Loan			
SRT	Simplified Residential Tier			
SSIP	Sewer System Improvement Program			
Stormwater Charges	A fixed monthly charge assessed on parcels based on the approximated			
	stormwater runoff generated from each property.			
TSS	Total Suspended Solids			
Water Enterprise	The Water Enterprise provides water service to retail customers in the City and			
	County of San Francisco and wholesale water service to additional customers in			
	the greater San Francisco Bay Area.			
Water Usage Charge	Variable portion of the water bill assessed for all metered waters.			
Wastewater Charges Variable portion of the sewer bill assessed for all billed wastewater				
	includes the volumetric and strength charges.			
Wastewater Enterprise	The Wastewater Enterprise collects and treats wastewater flows from homes and			
	businesses as well as stormwater flows from land surfaces during rain events in			
	the City's combined and separate sewer systems.			
WIFIA	Water Infrastructure Finance and Innovation Act			
WSIP	Water System Improvement Program			

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1. Executive Summary

1.1. Background

Section 8B.125 of the San Francisco Charter states that the SFPUC shall "retain an independent rate consultant to conduct rate and cost of service studies for each utility at least every five years." The SFPUC last conducted a water and wastewater cost of service study in 2018, which established the basis for the SFPUC's existing water and wastewater retail rates currently in effect in FY 2023.

The SFPUC engaged McGovern McDonald Engineers (MME) and Raftelis (sub-consultant to MME) in 2022 to conduct this water and wastewater cost of service study to establish a proposed three-year water and wastewater retail rate schedule for FY 2024-FY 2026. Water and wastewater rates for wholesale customers are not within the scope of this study. The major study objectives are to:

- Develop multi-year financial plans for the SFPUC's Water Enterprise and Wastewater Enterprise that sufficiently fund operations and maintenance (O&M) expenses, debt service payments, and capital expenditures while adequately funding reserves and achieving debt coverage requirements.
- Conduct cost of service analyses that establish a clear nexus between the cost to serve retail water and wastewater customers and the rates charged to customers, per Proposition 218 and industry standards.
- Review the SFPUC's existing retail water and wastewater rate structures to ensure that proposed rates achieve the financial and policy objectives of the agency.
- Develop and introduce a stormwater charge to recover costs associated with wet weather flows and treatment.
- Develop a three-year water and sewer rate schedule for retail customers that are fair, equitable, and compliant with Proposition 218 requirements.

1.2. Process and Approach

The study is informed by the SFPUC's policy objectives, current retail water and wastewater rates, as well as the legal requirements in California (namely, Proposition 218). The resulting cost of service analyses and rate design process considers all these factors and follows four key steps, outlined below, to derive proposed rates that fulfill the SFPUC's policy objectives, meet industry standards, and align with Proposition 218.

Step 1: Revenue Requirement Calculation

The rate-making process begins by determining the revenue requirement for the base year, also known as the test year or rate-setting year. The base year for this study is FY 2024 (July 1, 2023 to June 30, 2024). The revenue requirement should sufficiently fund the utility's O&M costs, annual debt service, capital project expenses, and reserve funding as projected in the SFPUC's budget and 10-Year Financial Plans.

Step 2: Cost of Service Analysis

The annual cost of providing the utility service, or the revenue requirement, is then distributed among customer classes commensurate with their cost burden on the system. A cost of service analysis involves the following steps:

• Functionalize costs – Expenses are categorized into system functions such as supply, treatment, and pumping for water and primary treatment, secondary treatment, and solids handling for wastewater.

- Allocate costs to cost components The functionalized costs are then allocated to system cost components such as water supply, base delivery, and extra capacity for water and flow, chemical oxygen demand, and total suspended solids for wastewater.
- Develop unit costs Unit costs for each cost component are determined using appropriate units of service such as the number of customer accounts, equivalent meter units, water use, and wastewater flows.
- Distribute cost components The cost components are allocated to each customer class by applying unit costs to each customer class in proportion to each class's units of service.

Step 3: Rate Design and Calculation

After allocating the revenue requirement for each system to its corresponding customer classes, the rate design and calculation begins. Rates do more than simply recover costs; within the legal framework and industry standards, properly designed rates should support the SFPUC's policy objectives while adhering to cost of service principles. In addition to being a financial instrument, rates help communicate policy objectives to customers. The rate design process also includes a customer bill impact analysis.

Step 4: Report Preparation and Rate Adoption

The final step in a cost of service and rate study is to develop a formal report in preparation for the rate adoption process. The report documents the rate study results and presents the methodologies, rationale, justifications, and calculations used to derive the proposed rates. A thorough and methodical report serves two important functions: it derives the rates and shows the nexus to costs and communicates the rate adoption process to customers and other important stakeholders.

1.3. Retail Water Rate Study Summary

Existing Retail Water Rates

The SFPUC's current water rates for retail customers in FY 2023 have been in effect since July 1, 2021. Retail water customers are billed monthly and currently are subject to the following rates and charges:

- » A Fixed Monthly Service Charge that varies based on meter size
- » A **Private Fire Service Fixed Monthly Service Charge** that varies based on service size (these charges apply only to customers with a dedicated private fire service connection such as a fire sprinkler system, standpipe, or other private fire service)
- » Variable Charges per 100 cubic feet (CCF) of water delivered that vary based on customer class
- » Drought Surcharges: Drought Surcharges are effective only when the Commission adopts a resolution declaring Stage 1, Stage 2, or Stage 3 of the Retail Water Shortage Allocation Plan to be in effect. Drought Surcharges are assessed as a percentage of Variable Charges and were set to 5% of Variable Charges in FY 2022 and FY 2023, but were formally rescinded effective May 2023.¹

¹ At the time the financial plan analysis was conducted, it was anticipated that Drought Surcharges would remain in effect through FY 2024. Since the analysis was completed, however, the Commission formally rescinded Drought Surcharges effective May 1, 2023 due to significant recent improvement in drought conditions. SFPUC staff conducted a sensitivity analysis indicating that the Water Enterprise will continue to be able to meet its goals and financial obligations, even with the removal of Drought Surcharges in FY 2024.

Proposed Water Enterprise Financial Plan

Water Enterprise Financial Plan Overview

MME and Raftelis prepared a water utility financial plan model in Microsoft Excel to project the SFPUC Water Enterprise's revenues, expenses, cash flows, reserve balances, and debt coverage over a multi-year period. Although proposed retail water rates developed in this study are for the next three fiscal years only (FY 2024 to FY 2026), the financial plan extends out ten fiscal years through FY 2033 to ensure that a longer-term planning horizon is accounted for in the rate-setting process. Note that the water financial plan projections developed for this study correspond to, and are aligned with, the SFPUC staff's own 10-Year Financial Plan, which is updated on an annual basis as part of staff's on-going financial management processes.

Status Quo Water Enterprise Financial Plan

A status quo cash flow analysis was first conducted to evaluate whether existing retail water rates can adequately fund the Water Enterprise's various expenses over the next ten years. This provided a baseline scenario from which to evaluate the need for any proposed rate increases. Under the status quo scenario (i.e., no rate increases), the Water Enterprise is projected to fully deplete its cash reserves in FY 2028 (Figure 1-1) and fail to meet its debt coverage target beginning in FY 2026 (Figure 1-2). This demonstrates the insufficiency of existing rates to support the Water Enterprise's financial needs over the next ten years.

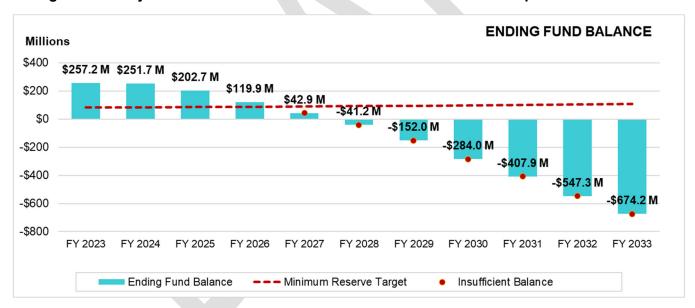


Figure 1-1: Projected Reserve Balances under Status Quo Water Enterprise Financial Plan

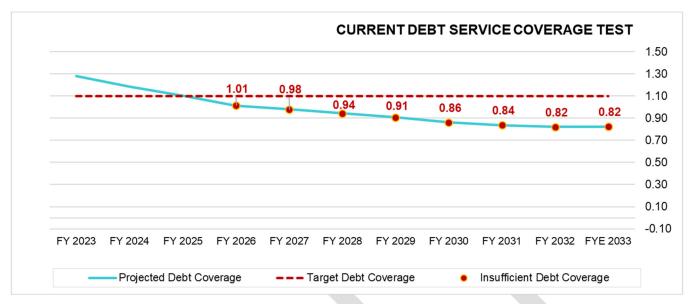


Figure 1-2: Projected Debt Coverage under Status Quo Water Enterprise Financial Plan

Proposed Water Enterprise Financial Plan

SFPUC staff evaluated various revenue adjustment scenarios before arriving at the proposed and planned revenue adjustments (i.e., overall annual rate increases) shown below in Table 1-1. Note that although this report includes ten-year financial projections, SFPUC staff is only recommending that the Commission consider adoption of three years of proposed rates (i.e., FY 2024-FY 2026). All revenue adjustments beyond FY 2026 are for planning purposes only. All revenue adjustments are assumed to become effective at the beginning of each fiscal year in July.

		Revenue	Effective	
Line	Fiscal Year	Adjustment	Date	Notes
1	FY 2024	5.0%	7/1/2023	Proposed
2	FY 2025	5.0%	7/1/2024	Proposed
3	FY 2026	5.0%	7/1/2025	Proposed
4	FY 2027	4.0%	7/1/2026	For Near-Term Planning Purposes Only
5	FY 2028	4.0%	7/1/2027	For Near-Term Planning Purposes Only
6	FY 2029	4.0%	7/1/2028	For Long-Term Planning Purposes Only
7	FY 2030	3.0%	7/1/2029	For Long-Term Planning Purposes Only
8	FY 2031	3.0%	7/1/2030	For Long-Term Planning Purposes Only
9	FY 2032	3.0%	7/1/2031	For Long-Term Planning Purposes Only
10	FY 2033	3.0%	7/1/2032	For Long-Term Planning Purposes Only

Table 1-1: Proposed Water Enterprise Revenue Adjustments

With the addition of revenue adjustments, the Water Enterprise's reserve balance (see Figure 1-3) is projected to meet the minimum required level in all years and debt coverage (see Figure 1-4) is projected to meet the target level in all years. Reserves are projected to be drawn down gradually to fund near-term capital needs. The proposed financial plan demonstrates a multi-year plan that generates sufficient revenue to support the Water Enterprise's financial needs and meet the SFPUC's official financial policies.

Figure 1-3: Projected Reserve Balances under Proposed Water Enterprise Financial Plan

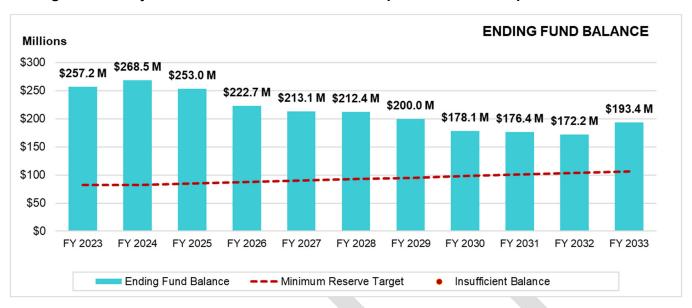
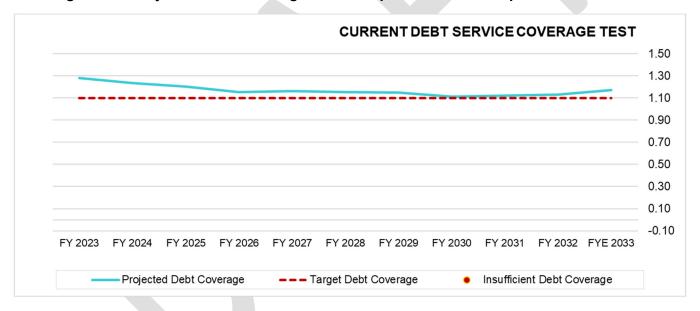


Figure 1-4: Projected Debt Coverage under Proposed Water Enterprise Financial Plan



Water Cost of Service Analysis

Raftelis performed a water cost of service analysis for FY 2024 in accordance with industry-standard principles outlined by the American Water Works Association in its *Principles of Water Rates, Fees, and Charges: Manual of Water Supply Practices M1, Seventh Edition.* The cost of service analysis evaluates each customer class's cost burden on the water system, and then proportionally allocates the overall retail rate revenue requirement to each customer class. A comparison of the proposed cost of service to the current cost of service² is shown in Table 1-2.³ Most customer classes experience a relatively minor distributional impact from the proposed cost of service allocations due to changes in Water Enterprise cost structure, customer water use patterns, and methodological refinements made since the prior water cost of service study in 2018.

\$ Comparison % Comparison (A) (B) (C) (D) (E) **Proposed** Current **Proposed** Current Cost of Service Cost of Service Cost of Service Change Line Customer Class (\$) (\$) (%) (%) (%) 26.94% 2.53% Single Family Residential \$91,236,228 \$84,575,700 26.27% Multiple-Family Residential \$125,138,244 \$119,486,099 36.95% 37.12% -0.46%3 Commercial/Industrial/Municipal \$103,924,835 \$98,487,157 30.68% 30.59% 0.29% 4 Irrigation \$13,545,814 \$12,840,998 4.00% 3.99% 0.26% 5 Docks & Shipping \$79,631 \$75,358 0.02% 0.02% 0.44% 6 **Builders & Contractors** \$1,551,568 \$1,469,665 0.46% 0.46% 0.34% 7 Private Fire Service \$2,944,309 \$4,841,198 0.87% 1.50% -42.19% 8 Non-Potable \$289,652 \$157,974 0.09% 0.05% 74.27% 100.00% 100.00% 0.00% Total \$338,710,281 \$321,934,148

Table 1-2: Comparison of Proposed vs. Current Water Cost of Service (FY 2024)

Proposed Retail Water Rates

All proposed rates shown are consistent with the SFPUC's existing retail water rate structure. No changes to the existing system of Drought Surcharges are proposed as part of this study. Current and proposed/projected water rates are shown in Table 1-3. Note that SFPUC staff is only recommending that the Commission consider adoption of the three years of proposed rates through FY 2026. All rates shown beyond FY 2026 are projections for planning purposes only. Proposed FY 2024 rates were established based on the results of the water cost of service analysis. Proposed and projected rates in FY 2025 to FY 2028 were established by increasing all proposed FY 2024 rates by the proposed and projected revenue adjustments (shown previously in Table 1-1). All rates are proposed to become effective on July 1 of each fiscal year.

² The current cost of service in Column B of Table 1-2 represents the amount of revenue each customer class is projected to generate in FY 2024 based on existing water rates.

³ Retail water rate revenue from customers with rates based on contracts with the SFPUC, as well as all drought surcharge revenue, is excluded from Table 1-2, as these revenues are outside the scope of the water cost of service analysis.

Table 1-3: Proposed and Projected Retail Water Rate Schedule (FY 2024 – FY 2028)

		(A) Current (since	(B) Proposed FY 2024	(C) Proposed FY 2025	(D) Proposed FY 2026	(E) Projected FY 2027	(F) Projected FY 2028
Line	Proposed Water Rate Schedule	7/1/2021)	(7/1/2023)	(7/1/2024)	(7/1/2025)	(7/1/2026)	(7/1/2027)
1	Fixed Monthly Service Charges (by Meter Size)						
2	5/8 inch	\$15.17	\$16.64	\$17.48	\$18.36	\$19.10	\$19.87
3	3/4 inch	\$19.43	\$21.13	\$22.19	\$23.30	\$24.24	\$25.21
4	1-inch	\$27.95	\$30.11	\$31.62	\$33.21	\$34.54	\$35.93
5	1-1/2 inch	\$49.25	\$52.56	\$55.19	\$57.95	\$60.27	\$62.69
6	2-inch	\$74.81	\$79.51	\$83.49	\$87.67	\$91.18	\$94.83
7	3-inch	\$142.97	\$151.35	\$158.92	\$166.87	\$173.55	\$180.50
8	4-inch	\$219.65	\$232.18	\$243.79	\$255.98	\$266.22	\$276.87
9	6-inch	\$432.65	\$456.70	\$479.54	\$503.52	\$523.67	\$544.62
10	8-inch	\$688.25	\$726.13	\$762.44	\$800.57	\$832.60	\$865.91
11	10-inch	\$1,071.65	\$1,130.26	\$1,186.78	\$1,246.12	\$1,295.97	\$1,347.81
12	12-inch	\$1,838.45	\$1,938.54	\$2,035.47	\$2,137.25	\$2,222.74	\$2,311.65
13	16-inch	\$3,201.65	\$3,375.47	\$3,544.25	\$3,721.47	\$3,870.33	\$4,025.15
14							
15	Private Fire Fixed Monthly Service Charges (by Service	Size)					
16	1-inch	\$9.55	\$8.43	\$8.86	\$9.31	\$9.69	\$10.08
17	1-1/2 inch	\$12.45	\$8.91	\$9.36	\$9.83	\$10.23	\$10.64
18	2-inch	\$15.93	\$9.73	\$10.22	\$10.74	\$11.17	\$11.62
19	3-inch	\$25.21	\$12.70	\$13.34	\$14.01	\$14.58	\$15.17
20	4-inch	\$35.65	\$17.82	\$18.72	\$19.66	\$20.45	\$21.27
21	6-inch	\$64.65	\$36.19	\$38.00	\$39.90	\$41.50	\$43.16
22	8-inch	\$99.45	\$67.88	\$71.28	\$74.85	\$77.85	\$80.97
23	10-inch	\$151.65	\$115.55	\$121.33	\$127.40	\$132.50	\$137.80
24	12-inch	\$256.05	\$181.62	\$190.71	\$200.25	\$208.26	\$216.60
25							
26	Variable Charges (per CCF)						
27	Single-Family Residential						
28	First 4 Units per Month	\$9.60	\$10.33	\$10.85	\$11.40	\$11.86	\$12.34
29	All Additional Units	\$10.71	\$11.47	\$12.05	\$12.66	\$13.17	\$13.70
30							
31	Multiple-Family Residential						
32	First 3 Units per Dwelling Unit per Month	\$9.60	\$10.19	\$10.70	\$11.24	\$11.69	\$12.16
33	All Additional Units	\$10.76	\$10.94	\$11.49	\$12.07	\$12.56	\$13.07
34							
35	Commercial, Industrial, and General Uses						
36	For All Units of Water	\$10.55	\$11.12	\$11.68	\$12.27	\$12.77	\$13.29
37							
38	Untreated Water Service						
39	For All Units of Water	\$0.95	\$1.80	\$1.89	\$1.99	\$2.07	\$2.16

Retail Water Bill Impacts

Sample monthly water bill impacts are shown for single family residential customers in Figure 1-5, multiple-family residential customers in Figure 1-6, and non-residential customers in Figure 1-7.⁴ The bill impacts compare current FY 2023 monthly water bills with proposed FY 2024 monthly water bills at varying levels of monthly water use.⁵ All bills exclude Drought Surcharges to provide a direct comparison of current versus proposed rates, even though Drought Surcharges equal to 5% of Variable Charges were effective in FY 2023 through April 2023 before being formally rescinded effective May 2023.

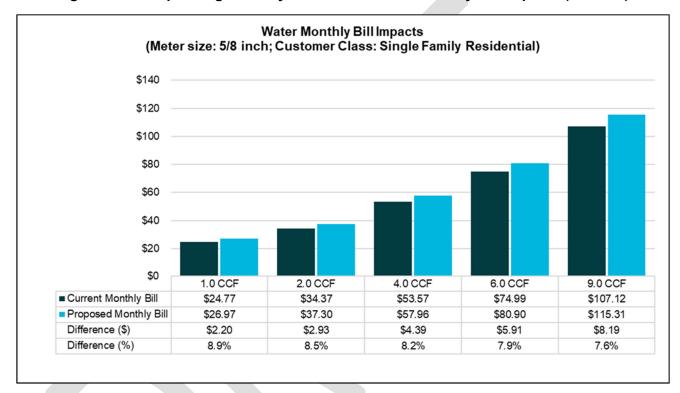


Figure 1-5: Sample Single Family Residential Water Monthly Bill Impacts (FY 2024)

⁴ Assumed meter sizes are 5/8-inch for single family residential and non-residential customers. Multiple-family residential bills assume a 1-inch meter and ten dwelling units.

⁵ The varying levels of water use correspond to the 10th percentile, 25th percentile, median, 75th percentile, and 90th percentile of monthly water use for each customer class based on an analysis of FY 2022 account-level billing data.

Figure 1-6: Sample Multiple-Family Residential Water Monthly Bill Impacts (FY 2024)

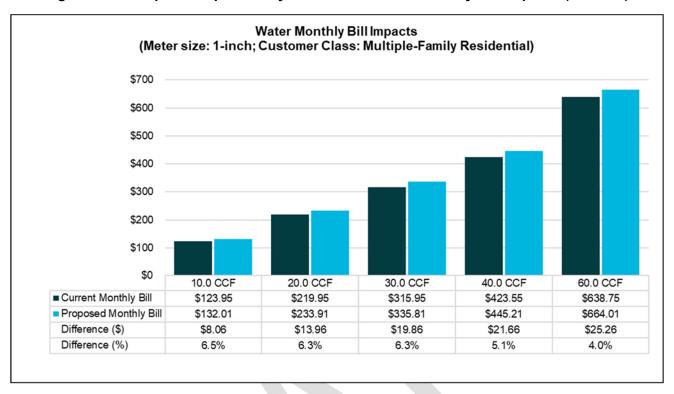
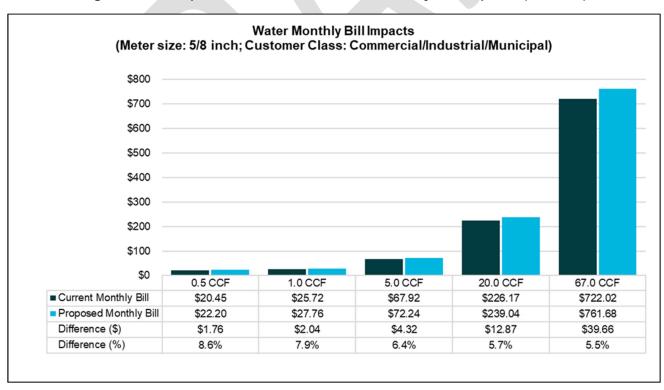


Figure 1-7: Sample Non-Residential Water Monthly Bill Impacts (FY 2024)



1.4. Retail Wastewater Rate Study Summary

Existing Retail Wastewater Rates

The SFPUC's current wastewater rates for retail customers in FY 2023 have been in effect since July 1, 2021 and are shown in Table 1-4. The rates shown include:

- » A Fixed Monthly Service Charge that is the same for both residential and non-residential customers
- » Variable Charges per 100 CCF of discharge that vary based on whether the customer is residential or non-residential
- » **Chemical Oxygen Demand (COD)** per pound in 100 CCF of discharge that is charged to non-residential users. Residential users have this charge included in their volumetric charges.
- **Total Suspended Solids (TSS) Charges** per pound in 100 CCF of discharge that is charged to non-residential users. Residential users have this charge included in their volumetric charges.
- » **Oil and Grease (OG) Charges** per pound in 100 CCF of discharge that is charged to non-residential users. Residential users have this charge included in their volumetric charges.

The SFPUC does not currently have separate stormwater charges other than a monthly service charge attributable to stormwater runoff for a small number of properties who do not have water and wastewater service agreements (Table 1-5). Therefore, the current sewer rates shown in Table 1-4 recover the cost of providing both wastewater and stormwater service for most accounts.

Table 1-4: Current Wastewater Enterprise Rates

Line	Customer Class	Current Rate
1	Residential Wastewater	
2	Monthly Service Charge	\$5.21
3	Volume per Discharge Unit (CCF)	\$15.97
4		
5	Non-Residential Wastewater	
6	Monthly Service Charge	\$5.21
7	Volume per Discharge Unit (CCF)	\$9.46
8	Chemical Oxygen Demand (COD)/lb	\$0.65
9	Total Suspended Solids (TSS)/lb	\$1.65
10	Oil and Grease (OG)/lb	\$1.66

Table 1-5: Stormwater Runoff Charges for Customers without SFPUC Accounts

Line	Stormwater Class	Current Rate
1	Low Runoff	\$22.16
2	Standard Runoff	\$36.31

Wastewater Enterprise Financial Plan Overview

The MME and Raftelis team prepared a wastewater financial plan model in Microsoft Excel to project the SFPUC Wastewater Enterprise's revenues, expenses, cash flows, reserve balances, and debt coverage over a

multi-year period. Although proposed retail sewer rates developed in this study are for the next three fiscal years only (FY 2024 to FY 2026), the financial plan extends out ten fiscal years through FY 2033 to ensure that a longer-term planning horizon is accounted for in the rate-setting process. Note that the financial plan projections developed for this study correspond to, and are aligned with, the SFPUC staff's own 10-Year Financial Plan, which is updated on an annual basis as part of staff's on-going financial management processes.

Status Quo Wastewater Enterprise Financial Plan

A status quo cash flow analysis was first conducted to evaluate whether existing retail water rates can adequately fund the Wastewater Enterprise's various expenses over the next five years through FY 2028. This provided a baseline scenario from which to evaluate the need for any proposed rate increases. Under the status quo scenario (i.e., no rate increases over the next five years), the Wastewater Enterprise is projected to deplete its cash reserves by FY 2025 (Figure 1-8) and fail to meet its debt coverage requirements (per existing bond covenants) beginning in FY 2026 (Figure 1-9). This demonstrates the insufficiency of existing rates to support the Wastewater Enterprise's financial needs over the next five years.

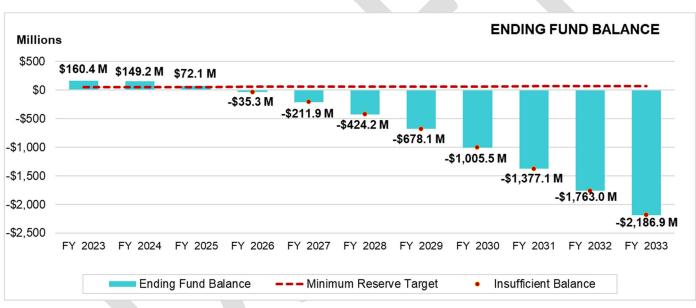


Figure 1-8: Projected Reserve Balances under Status Quo Wastewater Enterprise Financial Plan

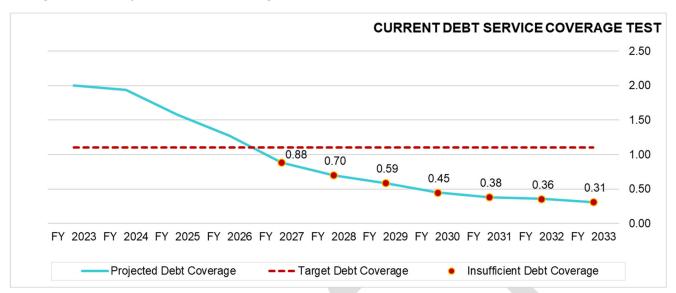


Figure 1-9: Projected Debt Coverage under Status Quo Wastewater Enterprise Financial Plan

Proposed Wastewater Enterprise Financial Plan

SFPUC staff evaluated various revenue adjustment scenarios before arriving at the proposed and planned revenue adjustments (i.e., overall annual rate increases) shown below in Table 1-6. Nine percent revenue adjustments are proposed annually in FY 2024-FY 2026. Because this study developed proposed rates for the next three years only (FY 2024-FY 2026), the revenue adjustments shown in FY 2027 through FY 2032 are for planning purposes only and will be reevaluated as part of the next rate study. All revenue adjustments are assumed to become effective at the beginning of each fiscal year on the first of July.

Proposed Revenue **Effective** Line **Fiscal Year Adjustment** Date **Notes** 1 FY 2024 9.0% 7/1/2023 **Proposed** 2 FY 2025 9.0% 7/1/2024 **Proposed** 3 **FY 2026** 9.0% 7/1/2025 **Proposed** 4 FY 2027 10.0% 7/1/2026 For Near-Term Planning Purposes Only 5 FY 2028 10.0% 7/1/2027 For Near-Term Planning Purposes Only 6 FY 2029 10.0% 7/1/2028 For Long-Term Planning Purposes Only 7 FY 2030 9.0% 7/1/2029 For Long-Term Planning Purposes Only 8 7/1/2030 For Long-Term Planning Purposes Only FY 2031 9.0% 9 FY 2032 7/1/2031 For Long-Term Planning Purposes Only 5.0% FY 2033 7/1/2032 For Long-Term Planning Purposes Only 10 5.0%

Table 1-6: Proposed Wastewater Enterprise Revenue Adjustments

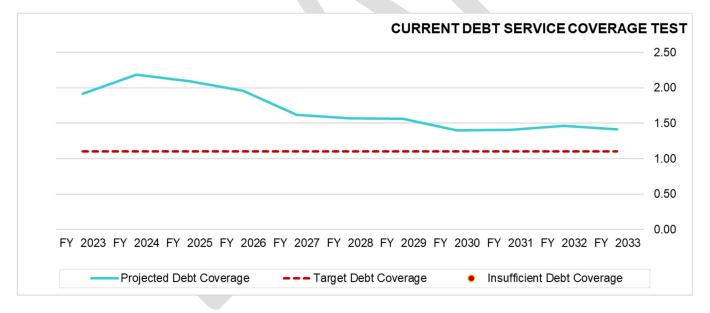
With the addition of revenue adjustments, the Wastewater Enterprise's reserve balance (see Figure 1-10) is projected to meet the minimum required level (per the SFPUC's Fund Balance Reserve Policy) each year through FY 2028. Debt coverage (see Figure 1-11) is projected to meet the SFPUC's required level (per the SFPUC's Debt Service Coverage Policy) in all years per the SFPUC's bond covenants. The proposed

financial plan demonstrates a five-year plan that generates sufficient revenue to support the Wastewater Enterprise's financial needs and meet the SFPUC's official financial policies.

ENDING FUND BALANCE Millions \$200 \$182.9 M \$173.8 M \$174.9 M \$180 \$160.4 M \$152.9 M \$145.6 M \$150.0 M \$160 \$133.6 M \$129.6 M \$140 \$153.9 M \$120 \$100 \$80 \$60 \$40 \$20 \$0 FY 2028 FY 2029 FY 2030 FY 2031 Ending Fund Balance --- Minimum Reserve Target Insufficient Balance

Figure 1-10: Projected Reserve Balances under Proposed Wastewater Enterprise Financial Plan

Figure 1-11: Projected Debt Coverage under Proposed Wastewater Enterprise Financial Plan



Sewer Cost of Service Analysis

MME and Raftelis completed a sewer cost of service analysis for FY 2024 in accordance with industry-standard principles outlined by the Water Environment Federation's *Manual of Practice No. 27, Financing and Charges for Wastewater Systems*. The cost of service analysis evaluates each customer class's cost burden on the sewer system, and then proportionally allocates the overall retail rate revenue requirement to each customer class.

As part of the cost of service analysis, sewer costs were split between the wastewater related costs for sanitary sewer service and stormwater related costs for the collection and treatment of runoff from properties. Currently, stormwater-related costs are recovered as part of wastewater rates. By splitting these costs, SFPUC will be able to enhance the equity in their rate structure by establishing a stormwater change in addition to the wastewater rates. Under this new methodology, all customers will be billed for the total flows that they contribute to SFPUC's combined sewer system. Table 1-7 shows the overall FY 2024 Wastewater Enterprise cost of service is \$389,190,725. Wastewater costs represent 77.5% and stormwater costs represent 22.5% of the total.

Table 1-7:Summary of FY 2024 Cost of Service for Wastewater and Stormwater

Line	Service	Total \$	% of Total		
1	Wastewater	\$301,471,528	77.5%		
2	Stormwater	\$87,719,197	22.5%		
3	Total	\$389,190,725	100.0%		

A comparison of the proposed FY 2024 wastewater portion of the cost of service to the current cost of service is shown in Table 1-8. In FY 2024, total wastewater related costs that are allocated each customer class is significantly reduced because stormwater costs are being split out into a separate charge.

Table 1-8: Comparison of Proposed and Current Wastewater Cost of Service (FY 2024)

		(A) Proposed Cost of	(B) Current Cost of	(C)
Line	Customer Class	Service (\$)	Service (\$)	\$ Difference
1	Single Family Residential	\$83,747,552	\$103,329,788	(\$19,582,236)
2	Multifamily Residential	\$132,814,641	\$165,279,146	(\$32,464,505)
3	Municipal	\$6,696,852	\$8,342,234	(\$1,645,382)
4	Nonresidential/Commercial	\$77,426,304	\$96,379,418	(\$18,953,115)
5	Fire	\$761,610	\$891,175	(\$129,565)
6	Municipal Fire	\$24,568	\$27,900	(\$3,332)
7	Total	\$301,471,528	\$374,249,662	(\$72,778,134)

A comparison of the proportional share of each wastewater customer class contributes to the FY 2024 cost of service as compared to the current cost of service is shown in Table 1-9. Despite the shift in stormwater costs out of the wastewater rates, the proportionate share of costs for each customer class remains relatively unchanged.

Table 1-9: Comparison of Proportional Share of Proposed and Current Cost of Service (FY 2024)

Line	Customer Class	(A) Proposed Cost of Service (\$)	(B) Current Cost of Service (\$)	(C) Proposed Cost of Service (%)	(D) Current Cost of Service (%)
1	Single Family Residential	\$83,747,552	\$103,329,788	27.78%	27.61%
2	Multifamily Residential	\$132,814,641	\$165,279,146	44.06%	44.16%
3	Municipal	\$6,696,852	\$8,342,234	2.22%	2.23%
4	Nonresidential/Commercial	\$77,426,304	\$96,379,418	25.68%	25.75%
5	Fire	\$761,610	\$891,175	0.25%	0.24%
6	Municipal Fire	\$24,568	\$27,900	0.01%	0.01%
7	Total	\$301,471,528	\$374,249,662	100.00%	100.00%

Proposed Retail Wastewater Rates

The rates presented by MME and Raftelis in Section 8, are designed to recover the FY 2024 wastewater portion of the sewer revenue requirement of \$301,471,528 as well as the FY 2024 stormwater portion of the sewer revenue requirement of \$87,719,197. This change would result in significant bill impacts on customers for parcels with large impermeable surface areas. The SFPUC's Ratepayer Assurance Policy principles of Affordability and Predictability suggests that major rate structure changes should take place over a few years instead of all at once. The SFPUC proposed Sewer rates, which are discussed in Section 9, are phased-in, to fully recover the cost allocation as defined in Section 8 by FY 2030. To phase-in rates, wastewater rates will continue to include, albeit on a decreasing level each year, a portion of stormwater-related costs. The proposed wastewater rates for FY 2024 through FY 2026 as well as the projected rates for FY 2027 and FY 2028 are shown in Table 1-10.

Table 1-10: Proposed and Projected Retail Wastewater Rate Schedule

		(A)	(B)	(C)	(D)	(E)	(F)
Line	Class	Current	Proposed	Proposed	Proposed	Projected	Projected
Lille	Class	(Since 7/1/2022)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Monthly Service Charge	\$5.21	\$4.85	\$5.28	\$5.76	\$6.33	\$6.97
2							
3	Residential Volumetric (per CCF)	\$15.97	\$16.91	\$17.80	\$18.72	\$19.83	\$20.99
4							
5	Nonresidential Volumetric						
6	Discharge (CCF)	\$9.46	\$9.74	\$10.09	\$10.43	\$10.84	\$11.23
7	Chemical Oxygen Demand (lb/CCF)	\$0.65	\$0.86	\$0.93	\$0.99	\$1.08	\$1.17
8	Total Suspended Solids (lb/CCF)	\$1.65	\$1.68	\$1.81	\$1.94	\$2.11	\$2.29
9	Oil and Grease (lb/CCF)	\$1.66	\$1.05	\$1.14	\$1.24	\$1.36	\$1.49

Proposed Stormwater Charges

Table 1-11 shows the SFPUC proposed stormwater charges for FY 2024 – FY 2026 as well as the projected rates for FY 2027 and FY 2028. These charges feature the new stormwater charge structure previously developed by SFPUC staff with the support of consultants in a prior engagement.

Table 1-11: Proposed and Projected Retail Stormwater Charges

		(A)	(B)	(C)	(D)	(E)	(F)
Line	Stormwater Class	Current	Proposed	Proposed	Proposed	Projected	Projected
		(N/A)	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Simplified Residential Tiered Rate						
2	SRT1	N/A	\$2.31	\$5.04	\$8.24	\$12.08	\$16.61
3	SRT2	N/A	\$3.60	\$7.84	\$12.82	\$18.80	\$25.85
4	SRT3	N/A	\$5.41	\$11.79	\$19.27	\$28.26	\$38.86
5							
6	Standard						
7	Permeable (\$/KSF/Mo)	N/A	\$0.19	\$0.41	\$0.67	\$0.99	\$1.36
8	Impermeable (\$/KSF/Mo)	N/A	\$1.89	\$4.11	\$6.72	\$9.86	\$13.55

Retail Sewer Bill Impacts

Figure 1-12 presents sample FY 2024 sewer bill impacts for Single Family Residential customers assuming a Simplified Residential Tier 2 customer. Figure 1-13 presents the FY 2024 impacts for multifamily apartments assuming the Standard stormwater charge for a medium-sized apartment building with 43 sq. ft. of permeable area and 4,008 sq. ft. of impermeable area. Figure 1-14 shows the FY 2024 impacts for non-residential customers assuming the Standard stormwater charge, 22,974 sq. ft. of permeable area, and 141,018 sq. ft. of impermeable. The bill impacts shown in each figure include the impact of proposed FY 2024 phased-in wastewater rates and stormwater charges.

Figure 1-12: FY 2024 Single Family Residential Bill Impacts by Usage Percentile

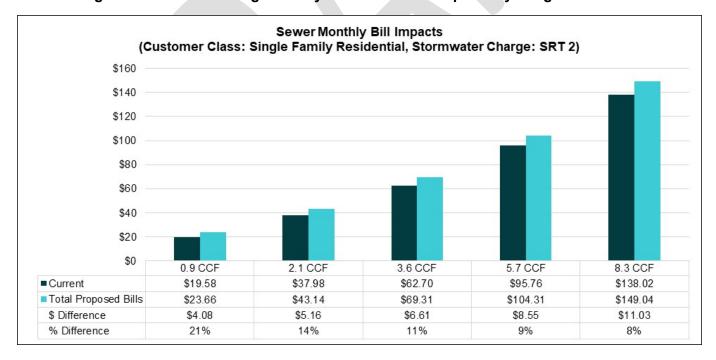


Figure 1-13: FY 2024 Multifamily Residential Bill Impacts by Usage Percentile

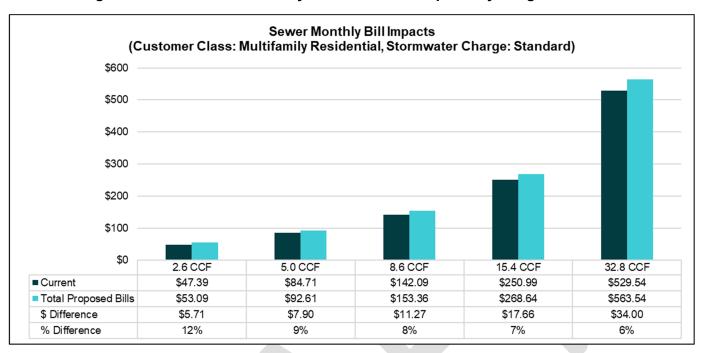
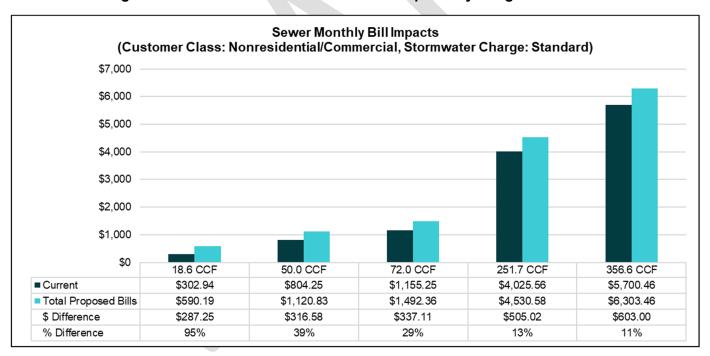


Figure 1-14: FY 2024 Non-Residential Bill Impacts by Usage Percentile



2. Introduction

The SFPUC is a public agency of the City and County of San Francisco that provides water, wastewater, and municipal power services to San Francisco. The SFPUC is responsible for the maintenance, operation, and development of three utility enterprises: the Water Enterprise, the Wastewater Enterprise, and the Power Enterprise. The SFPUC's enterprises are operated and managed as separate financial entities with separate enterprise funds.

2.1. Water Enterprise Overview

The SFPUC is the largest water purveyor in Northern California, serving a population of nearly 2.7 million people in over 30 cities. Customers are divided into three categories: retail customers in the City and County of San Francisco, wholesale agencies on the San Francisco Peninsula, in the South Bay, and parts of the East Bay, and retail customers outside of San Francisco. About one-third of the SFPUC's water supply is served to retail customers, the remaining two-thirds is served to wholesale customers. Source water comes from three systems including: (1) the Hetch Hetchy system (Hetch Hetchy, Lake Lloyd, and Lake Eleanor Reservoirs), (2) the Alameda Reservoirs (Calaveras and San Antonio), and (3) the Peninsula Reservoirs (Crystal Springs, Pilarcitos, and San Andreas) (Figure 2-1). The SFPUC delivers roughly 190 MGD of water, with approximately 130 MGD to wholesale customers and 60 MGD to retail customers based on Fiscal Year (FY) 2022 flows.

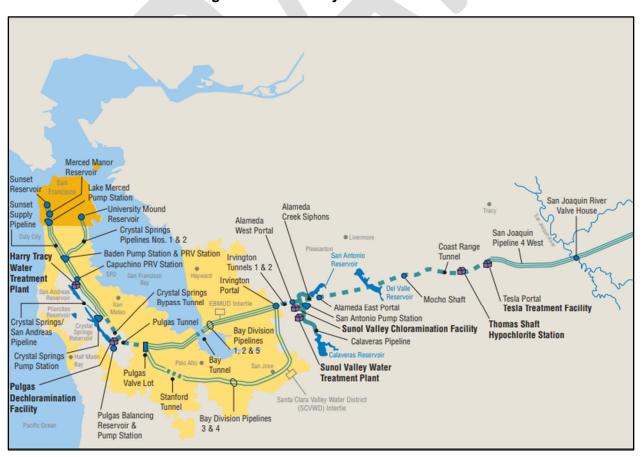


Figure 2-1: Water System Overview

2.2. Wastewater Enterprise Overview

The Wastewater Enterprise provides wastewater and stormwater collection, treatment, and disposal services for the City. The collection system consists of approximately 900 miles of sewer system lines throughout the City. The SFPUC treats both sanitary sewer and wet weather flows in its three water pollution control plants (Southeast Treatment Plant, Oceanside Treatment Plant, and the North Point Wet Weather Facility), which discharge effluent to the San Francisco Bay and Pacific Ocean (Figure 2-2). The combined sewer system reduces pollution in the San Francisco Bay and Pacific Ocean by managing wet weather flows and urban runoff that would otherwise discharge to the Bay and Ocean untreated. Dry weather flows, including street runoff, receive full secondary treatment at either the Oceanside or Southeast Wastewater Treatment Plants. Wet weather flows receive either secondary treatment at Oceanside or Southeast facilities, or primary treatment at the North Point wet weather facilities.

The collection system is a combined wastewater and stormwater system. Historically, customer wastewater rates have been collected to recover both the wastewater and stormwater incurred costs. In this analysis, stormwater charges are separated from wastewater rates. The SFPUC treats approximately 60 to 70 MGD during dry weather and 115 to 180 MGD during wet weather events.

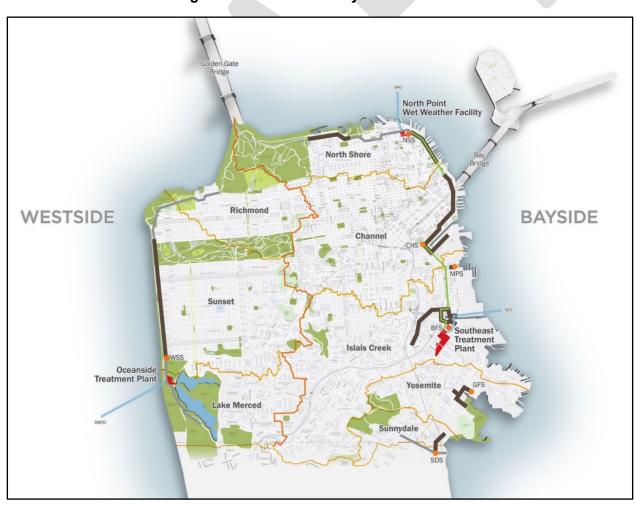


Figure 2-2: Wastewater System Overview

2.3. Water and Wastewater Rate Study Overview

Section 8B.125 of the San Francisco Charter states that the SFPUC shall "retain an independent rate consultant to conduct rate and cost of service studies for each utility at least every five years." The SFPUC last conducted a water and wastewater cost of service study in 2018, which established the basis for the SFPUC's existing water and wastewater retail rates currently in effect in FY 2023.

The SFPUC engaged McGovern McDonald Engineers (MME) and Raftelis (sub-consultant to MME) in 2022 to conduct this water and wastewater cost of service study to establish a proposed three-year water and wastewater retail rate schedule for FY 2024 - FY 2026. The major study objectives are to:

- Develop multi-year financial plans for the SFPUC's Water Enterprise and Wastewater Enterprise that sufficiently fund operations and maintenance (O&M) expenses, debt service payments, and capital expenditures while adequately funding reserves and achieving debt coverage requirements.
- Conduct cost of service analyses that establish a clear nexus between the cost to serve retail water and wastewater customers and the rates charged to customers, per Proposition 218 and industry standards.
- Review the SFPUC's existing retail water and wastewater rate structures to ensure that proposed rates achieve the financial and policy objectives of the agency.
- Develop and introduce a stormwater charge to recover costs associated with wet weather flows and treatment.
- Develop a three-year water and sewer rate schedule for retail customers that are fair, equitable, and compliant with Proposition 218 requirements.

The study results are documented within this report. Note that proposed rates cannot be implemented until formally adopted by the SFPUC's Commissioners after a public hearing. Proposition 218 requires that the SFPUC must mail to its water and wastewater retail customers a public hearing notice detailing any proposed rate changes no fewer than 45 days before the public hearing. The notice includes a customer's right to protest the rate proposal. The SFPUC mailed out public hearing notices to customers on April 7, 2023 in advance of a public hearing scheduled for May 23, 2023.

2.4. Financial Policies

The study was informed by the following key financial policies adopted by the SFPUC. Each policy pertains to both the Water Enterprise and Wastewater Enterprise.

Reserves

The SFPUC's Fund Balance Reserve Policy states that operating and capital budgets will be proposed such that reserves total a minimum of 25% of annual O&M expenses (i.e., approximately 90 days of O&M expenses).

Debt Coverage

The SFPUC's Debt Service Coverage Policy states that budgets, rates, and financial plans shall be adopted such that "Indenture Coverage shall be at least 1.35x" and that "Current Coverage shall be at least 1.10x." Note that debt coverage requirements per the SFPUC's bond covenants are less stringent (1.25x for Indenture Coverage and 1.00x for Current Coverage). The two debt service coverage tests are calculated as follows:

$$Indenture\ Coverage = \frac{(Annual\ Revenues - Operating\ Expenses) + Unappropriated\ Fund\ Balance}{Annual\ Debt\ Service}$$

$$\textit{Current Coverage} = \frac{(\textit{Annual Revenues} - \textit{Operating Expenses})}{\textit{Annual Debt Service}}$$



3. Water Financial Plan

3.1. Overview of the Financial Planning Process

The primary goal of the financial planning process is to identify the total amount of retail water rate revenue required on an annual basis to support the Water Enterprise's financial needs. MME and Raftelis prepared a water utility financial plan model in Microsoft Excel to project the SFPUC Water Enterprise's revenues, expenses, cash flows, reserve balances, and debt coverage over a ten-year period through FY 2033. However, financial plan projections presented in this section extend out through the next five fiscal years only (through FY 2028). Note that the water financial plan projections developed by MME and Raftelis for this study correspond to, and are aligned with, the SFPUC staff's own 10-Year Financial Plan, which is updated on an annual basis as part of staff's on-going financial management processes.

The critical steps in developing a water utility financial plan include:

- <u>Projecting Billed Water Connections and Water Use (Demand Forecast)</u>: The demand forecast projects the "units of service" subject to each rate/charge, including the number of metered water connections, private fire service connections, and water use. Projections are based on factors such as customer account growth and projected changes in customer water demand patterns.
- **Projecting Retail Water Rate Revenues at Existing Rates**: This step in the financial planning process determines how much retail rate revenue will be generated annually if there are <u>no rate increases</u>. The level of rate revenues at existing rates is compared to projected expenditures to determine the annual funding shortfall that must be met by the appropriate combination of rate revenue increases or external debt financing.
- Projecting Miscellaneous Non-Rate Revenue and Wholesale Water Rate Revenue: Miscellaneous non-rate revenue items can include interest income from cash reserves, grants, capacity fee receipts, and miscellaneous ancillary fees. Miscellaneous non-rate revenues assist in closing the annual funding shortfall and reduce the revenue requirement from rates (i.e., the level of amount of rate revenue that must be earned from customers). Wholesale water rate revenue is also projected and incorporated into the financial plan.
- Projecting Operating and Maintenance Expenses and Existing Debt Service: This step in the financial planning process projects the O&M expenses that will be incurred to provide utility service as well as required debt service payments on existing debt obligations.
- <u>Determining a Capital Financing Strategy</u>: In many utilities, the key driver of the annual funding shortfall is projected CIP expenditures. In this step in the financial planning process, the utility determines the optimal mix of annual rate revenue increases and external debt financing to cover the funding shortfall. An outcome of this process is the identification of rate-revenue-funded CIP expenditures, required debt proceeds, and projected debt service costs.
- <u>Identifying Cash Reserve and Debt Service Coverage Targets</u>: In addition to having sufficient revenues to pay for projected costs, utilities must also maintain prudent cash reserves and meet both

contractually obligated and target debt service coverage requirements. The water revenue requirement from rates must include the cost of meeting both cash reserve and debt service coverage targets.

• <u>Determining Annual Revenue Requirement from Rates</u>: The final outcome of the financial planning process is the determination of the annual amount of rate revenue that must be recovered from customers to pay for all projected costs and meet financial targets.

3.2. Financial Plan Components

Existing Retail Water Rates

The SFPUC's current water rates for retail customers in FY 2023 have been in effect since July 1, 2021 and were developed in the 2018 Water and Wastewater Cost of Service Study. Retail water customers are billed monthly and currently are subject to the rates and charges described below (and shown in Table 3-1):

- Fixed Monthly Service Charges: Each metered water connection is subject to a Fixed Monthly Service Charge based on the meter size each monthly billing period. Larger meter sizes are subject to higher charges because larger meters burden the water system with greater capacity-related and maintenance-related costs.
- » Private Fire Service Fixed Monthly Service Charges: Each dedicated private fire service connection⁶ is subject to a Fire Service Fixed Monthly Service Charge based on service size each monthly billing period. Larger service sizes are subject to higher charges because larger services burden the water system with greater capacity-related costs.
- Wariable Charges: Variable Charges are assessed per 100 CCF of water delivered within a monthly billing period. Residential Variable Charges are based on an inclining two-tier rate structure. Single Family Residential customers are charged at a lower rate for the first four CCF per month and a higher rate for all additional water use. Multiple-Family Residential customers are charged at a lower rate for the first three CCF per dwelling unit per month and a higher rate for all additional water use. Non-residential potable water customers are subject to a uniform rate per CCF for all usage. Non-potable customers receiving untreated water service are subject to a different uniform rate per CCF that excludes treatment and other potable-specific costs.
- » Drought Surcharges: Drought Surcharges are in effect when the Commission adopts a resolution declaring Stage 1, Stage 2, or Stage 3 of the Retail Water Shortage Allocation Plan. Drought Surcharges are assessed as a percentage of Variable Charges and are based on a formula designed to recover the retail revenue shortfall due to reduced water sales during drought. Current surcharges are limited to up to 10% for Stage 1, up to 20% for Stage 2, and up to 25% for Stage 3. Stage 1 Surcharges of 5% were in effect in FY 2022 and FY 2023, but were formally rescinded effective May 2023.

⁶ Private fire service connections include fire sprinkler systems, standpipes, and other private fire services.

Table 3-1: Existing Retail Water Rates

		Current Rates
Line	Retail Water Rates	(effective 7/1/2021)
1	Fixed Monthly Service Charges (by Meter Size)	
2	5/8 inch	\$15.17
3	3/4 inch	\$19.43
4	1-inch	\$27.95
5	1-1/2 inch	\$49.25
6	2-inch	\$74.81
7	3-inch	\$142.97
8	4-inch	\$219.65
9	6-inch	\$432.65
10	8-inch	\$688.25
11	10-inch	\$1,071.65
12	12-inch	\$1,838.45
13	16-inch	\$3,201.65
14		
15	Private Fire Fixed Monthly Service Charges (by Service Size)	
16	1-inch	\$9.55
17	1-1/2 inch	\$12.45
18	2-inch	\$15.93
19	3-inch	\$25.21
20	4-inch	\$35.65
21	6-inch	\$64.65
22	8-inch	\$99.45
23	10-inch	\$151.65
24	12-inch	\$256.05
25		
26	Variable Charges (per CCF)	
27	Single-Family Residential	
28	First 4 Units per Month	\$9.60
29	All Additional Units	\$10.71
30		
31	Multiple-Family Residential	Φ0.00
32	First 3 Units per Dwelling Unit per Month	\$9.60
33	All Additional Units	\$10.76
34	Commonwial to destrict and Commonthly as	
35	Commercial, Industrial, and General Uses	Φ40 FF
36	For All Units of Water	\$10.55
37	Untracted Water Carries	
38	Untreated Water Service	ሰ ር ርር
39 40	For All Units of Water	\$0.95
40	Duninght Counch again (for Ctare 4 Duninght)	
41	Drought Surcharges (for Stage 1 Drought)	F 00/
42	Effective Drought Surcharge (% of Variable Charges)	5.0%

Projected Water Units of Service

Projected units of service include the number of metered water connections by meter size (Table 3-2), private fire connections by service size (Table 3-3), and water use in CCF by customer class (Table 3-4). The number of metered water connections and private fire service connections is estimated from detailed account-level monthly billing data for FY 2022. As the service area is largely built out, the majority of growth is assumed to be redevelopment resulting in no net gain in service connections. Therefore, no change in the number of accounts or connections is assumed through FY 2028. Projected water demand by customer class is based on detailed demand forecasts incorporated into SFPUC staff's 10-Year Financial Plan. SFPUC staff's detailed water demand forecast is based on assumptions regarding population change, job growth, price elasticity (with respect to water rates), conservation trends, and changes in customer water use characteristics. Water demand is projected to increase by approximately 1.1% per year on average through FY 2028 relative to FY 2022 water demand, although demand does fluctuate from year to year. Overall demand is projected to decrease in FY 2024 due to reductions in wholesale water use, and in FY 2027 due to reductions in retail water use, for example.

Table 3-2: Projected Metered Water Connections

		In-City Retail Paying			
Line	Number of Water Meters (FY 2023-FY 2028)	(excl. Treasure Island)	Suburban Retail Paying	Other*	Total
1	Water Meter Size				
2	5/8 inch	125,811	181	12	126,004
3	3/4 inch	18,310	32	2	18,344
4	1-inch	11,670	24	15	11,709
5	1-1/2 inch	5,480	13	9	5,502
6	2-inch	7,423	30	48	7,501
7	3-inch	676	1	1	678
8	4-inch	456	3	28	487
9	6-inch	249	16	33	298
10	8-inch	16	0	17	33
11	10-inch	2	6	18	26
12	12-inch	0	0	0	0
13	16-inch	1	0	1	2
14	Total Water Meters	170,094	306	184	170,584

^{*}Other includes Treasure Island, Non-Paying Municipal, Recycled Water, Upcountry/Hetch Hetchy, & Wholesale Water Meters

Table 3-3: Projected Private Fire Service Connections

	Number of Private Fire Service Connections	In-City	Suburban	
Line	(FY 2023-FY 2028)	Retail	Retail	Total
1	Connection Size			
2	1-inch	186	0	186
3	1-1/2 inch	33	0	33
4	2-inch	3,899	3	3,902
5	3-inch	155	0	155
6	4-inch	3,471	5	3,476
7	6-inch	1,640	1	1,641
8	8-inch	710	5	715
9	10-inch	6	1	7
10	12-inch	23	0	23
11	Total Private Fire Service Connections	10,123	15	10,138



Table 3-4: Projected Water Use

Line Projected Water Use (CCF) FY 2023 FY 2024 FY 2025 FY 2026 F	Y 2027	FY 2028
1 Water Use - In-City Retail Paying		
2 Single Family Residential		
3 First 4 Units per Month 3,981,233 3,908,473 3,966,386 4,035,732 3	3,996,905	3,971,835
4 All Additional Units 2,380,659 2,337,150 2,371,781 2,413,247 2	2,390,030	2,375,039
5 Subtotal 6,361,892 6,245,622 6,338,167 6,448,980 6	3,386,935	6,346,874
6		
7 Multi-Family Residential		
8 First 3 Units per Dwelling Unit per Month 6,886,851 6,760,988 6,861,168 6,981,126 6	3,913,961	6,870,594
9 All Additional Units 3,880,179 3,809,265 3,865,708 3,933,294 3	3,895,452	3,871,019
10 Subtotal 10,767,030 10,570,253 10,726,877 10,914,420 10	,809,413	10,741,614
11		
12 Non-Residential		
13 In-City Retail - Residential Fire Service 8,498 8,342 8,466 8,614	8,531	8,478
14 In-City Retail - Residential Irrigation 154,470 151,647 153,894 156,585	155,079	154,106
15 In-City Retail - Municipal 708,272 743,672 759,368 777,402	761,577	748,792
16 In-City Retail - Municipal Fire Service 539 565 577 591	579	569
17 In-City Retail - Municipal Irrigation 456,746 479,574 489,696 501,326	491,121	482,876
	5,877,133	6,812,593
19 In-City Retail - Docks & Shipping Supply 3,572 3,925 3,971 4,028	3,977	3,939
20 In-City Retail - Builders & Contractors 89,740 98,610 99,771 101,211	99,915	98,977
21 In-City Retail - Non-Residential Fire Service 20,061 22,044 22,303 22,625	22,336	22,126
22 In-City Retail - Non-Residential Irrigation 185,485 203,820 206,219 209,194	206,516	204,578
23 <u>In-City Retail - Treasure Island</u> 159,085 165,930 167,682 170,358	168,448	167,591
	3,795,211	8,704,626
25		
	,991,559	25,793,114
27		
28 Water Use - Suburban Retail Paying		
29 Single Family Residential	F 000	5.050
30 First 4 Units per Month 5,268 5,172 5,249 5,340	5,289	5,256
31 All Additional Units 25,491 25,026 25,396 25,840	25,592	25,431
32 Subtotal 30,760 30,198 30,645 31,181	30,881	30,687
33 34 Non-Residential		
	27 225	26 770
35 Municipal 25,329 26,595 27,157 27,801 36 Commercial/Industrial 1,032,752 1,134,838 1,148,195 1,164,762	27,235	26,778
36 Commercial/Industrial 1,032,752 1,134,838 1,148,195 1,164,762 1 37 Subject to Contract Rates 142,485 143,395 143,514 143,662	,149,852 <i>143,5</i> 29	1,139,061 <i>143,4</i> 33
	,006,323	995,628
39 Fire Service 50 55 55 56	,000,323 55	993,028 55
40 Irrigation 274,680 301,832 305,385 309,791	305,825	302,955
41 Subject to Contract Rates 15,353 16,870 17,069 17,315	17.093	16,933
42 All Other 259,328 284,962 288,316 292,476	288,732	286,022
43 Untreated Water 141,383 155,358 157,187 159,455	157,414	155,936
44 Recycled Water 34,894 38,343 38,795 39,355	38,851	38,486
	,679,232	1,663,271
	,,,,,,,,,,	1,000,211
40		
46 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1	,710,113	1,693,959
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1	,710,113	1,693,959
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1	,710,113	1,693,959
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1 48 49 Water Use - Other	2,625,354	1,693,959 2,603,919
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1 48 49 Water Use - Other		
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1 48 49 Water Use - Other 50 Non-Paying (inc. In-City Water Loss) 2,520,174 2,574,312 2,611,439 2,656,110 2 51 Upcountry/Hetch Hetchy 368,319 390,976 395,929 401,999	2,625,354	2,603,919
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1 48 49 Water Use - Other 50 Non-Paying (inc. In-City Water Loss) 2,520,174 2,574,312 2,611,439 2,656,110 2 51 Upcountry/Hetch Hetchy 368,319 390,976 395,929 401,999 52 Wholesale 60,509,507 59,663,244 61,586,672 66,333,170 66	2,625,354 397,231	2,603,919 393,870
Water Use - Other Value of the Use of	2,625,354 397,231 6,532,170	2,603,919 393,870 66,914,046
47 Total Suburban Retail Paying Water Use 1,539,848 1,687,220 1,707,418 1,732,400 1 48 49 Water Use - Other 50 Non-Paying (inc. In-City Water Loss) 2,520,174 2,574,312 2,611,439 2,656,110 2 51 Upcountry/Hetch Hetchy 368,319 390,976 395,929 401,999 52 Wholesale 60,509,507 59,663,244 61,586,672 66,333,170 66 53 Total Other Water Use 63,398,000 62,628,532 64,594,040 69,391,279 69 54	2,625,354 397,231 6,532,170	2,603,919 393,870 66,914,046

Water Enterprise Revenues at Existing Rates

Retail water rate revenues from Fixed Monthly Service Charges, Fire Service Fixed Monthly Service Charges, Variable Charges, and Drought Surcharges were projected for FY 2023 to FY 2028 based on existing rates and projected units of service (Table 3-5). Annual revenue from Fixed Monthly Service Charges and Fire Service Fixed Monthly Service Charges was calculated by multiplying the existing charge (from Table 3-1) by the number of connections for each meter size (from Table 3-2) and service size (from Table 3-3) by 12 monthly billing periods per year. Annual Variable Charge revenue was calculated by multiplying the current charge per CCF (from Table 3-1) by projected annual use in CCF (from Table 3-4).

Drought Surcharge revenue was calculated by multiplying projected Variable Charge revenue from potable retail customers by 5% in FY 2023 and FY 2024 only, under the assumption that no drought stage (and accompanying Drought Surcharges) will be in effect beginning in FY 2025 through FY 2028.⁷ Note that a small number of suburban retail customers are subject to unique water rates based on historic contracts with the SFPUC rather than the adopted rates in Table 3-1. The retail water rate revenue projections in Table 3-5 include adjustments to account for the unique rates paid by customers with these historic contracts.

Line Retail Water Rate Revenues FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 In-City Retail (excl. Treasure Island) 2 Fixed Monthly Service Charges \$44,839,107 \$44,839,107 \$44,839,107 \$44,839,107 \$44,839,107 \$44,839,107 \$4,502,806 \$4,502,806 \$4,502,806 3 Private Fire Fixed Monthly Service Charges \$4,502,806 \$4,502,806 \$4,502,806 \$266,220,158 4 \$253,915,013 \$258,115,540 \$261,792,557 \$263,268,950 \$261,241,880 Variable Charges 5 **Drought Surcharges** \$12,695,751 \$12,905,777 \$0 \$0 \$0 \$0 6 Subtotal \$315,952,677 \$320,363,230 \$311,134,470 \$315,562,071 \$312,610,863 \$310,583,793 7 8 Suburban Retail 9 Fixed Monthly Service Charges \$252.925 \$252.925 \$252.925 \$252.925 \$252.925 \$252.925 10 Private Fire Fixed Monthly Service Charges \$11,274 \$11,274 \$11,274 \$11,274 \$11,274 \$11,274 \$13,361,496 \$14,772,588 \$14,956,929 \$15,176,584 \$14,978,000 \$14,826,008 11 Variable Charges 12 Drought Surcharges \$636,912 \$704,272 \$0 \$0 \$0 \$0 13 Subtotal \$14,262,607 \$15,741,059 \$15,221,128 \$15,440,783 \$15,242,199 \$15,090,208 14 Total \$330,215,284 \$336,104,288 \$326,355,598 \$331,002,855 \$327,853,063 15 \$325,674,000

Table 3-5: Projected Water Enterprise Rate Revenue at Existing Rates

In addition to revenues produced by retail water rates, the Water Enterprise receives revenues from different sources including wholesale water sales, interest income, miscellaneous one-time charges, and others. These other revenues were projected annually through FY 2028 (Table 3-7). Other revenues including Customer Assistance Program (CAP) Use of Revenues,⁸ Wholesale Water Sales, Federal Bond Interest Subsidies, Power Enterprise State Revolving Fund (SRF) Loan Reimbursements, Programmatic Revenues (which include retail water rate revenue from the Treasure Island Development Authority and other revenues associated with the SFPUC's headquarters building at 525 Golden Gate Avenue), and Capacity Fees are

⁷ At the time the financial plan analysis was conducted, it was anticipated that Drought Surcharges would remain in effect through FY 2024. Since the analysis was completed, however, the Commission formally rescinded Drought Surcharges effective May 1, 2023 due to significant recent improvement in drought conditions. SFPUC staff conducted a sensitivity analysis indicating that the Water Enterprise will continue to be able to meet its goals and financial obligations, even with the removal of Drought Surcharges in FY 2024.

⁸ CAP use of revenues represents the use of Water Enterprise lease and rental income anticipated to offset bill adjustments to customers enrolled in SFPUC's Customer Assistance Program. It is included in the financial plan as a negative revenue rather than an operating expense.

based on detailed projections from SFPUC staff's 10-Year Financial Plan. Rental income, Water Service Installation Charges, and Other Non-Operating Revenue are based on the adopted budget in FY 2023 and FY 2024 and escalated annually thereafter based on SFPUC staff's forecasted changes in the Consumer Price Index (Table 3-6). Interest earnings are based on the adopted budget in FY 2023 and FY 2024 and projected thereafter by multiplying the assumed annual interest rate on cash reserves (Table 3-6) by the average of the beginning and ending projected Water Enterprise reserve balance each year.

Table 3-6: Assumptions for Water Enterprise Other Revenues

Line	Revenue Type	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	
1	Revenue Escalation							
2	Consumer Price Index	Budget	Budget	2.71%	2.56%	2.56%	2.56%	
4								
4	Interest Earnings on Cash Reserves							
5	Annual Interest Rate	Budget	Budget	0.50%	0.50%	0.50%	0.65%	

Table 3-7: Projected Water Enterprise Other Revenue

Line	Other Revenues	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	CAP Use of Revenues	(\$1,245,932)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)
2	Wholesale Water Sales	\$289,598,379	\$316,979,387	\$326,505,882	\$341,633,834	\$342,654,481	\$364,404,777
3	Interest Income	\$1,109,000	\$1,133,000	\$1,300,644	\$1,186,491	\$1,086,925	\$1,378,470
4	Rental Income	\$13,136,000	\$13,595,800	\$13,964,246	\$14,321,731	\$14,688,367	\$15,064,389
5	Federal Bond Interest Subsidy	\$21,289,804	\$21,317,856	\$21,184,845	\$20,849,738	\$20,536,693	\$20,098,912
6	Other Misc Income	\$12,429,431	\$13,067,577	\$13,596,883	\$14,021,344	\$14,486,674	\$14,917,017
7	Water Service Installation Charge	\$7,373,000	\$7,596,000	\$7,801,852	\$8,001,579	\$8,206,419	\$8,416,504
8	Other Non-Operating Revenue	\$5,056,431	\$5,218,230	\$5,359,644	\$5,496,851	\$5,637,570	\$5,781,892
9	Power Enterprise SRF Loan Reimb.	\$0	\$253,347	\$435,388	\$522,914	\$642,684	\$718,621
10	Programmatic Revenues	\$7,156,000	\$7,158,000	\$7,277,000	\$7,202,000	\$7,223,000	\$7,234,000
11	Treasure Island Utilities Revenue	\$1,350,000	\$1,350,000	\$1,437,000	\$1,534,000	\$1,593,000	\$1,644,000
12	525 Golden Gate - O&M	\$1,211,000	\$1,248,000	\$1,248,000	\$1,248,000	\$1,285,000	\$1,324,000
13	525 Golden Gate - Lease Payment	\$2,650,000	\$2,650,000	\$2,650,000	\$2,650,000	\$2,650,000	\$2,650,000
14	525 Golden Gate COPS Bond Interest Subsidy	\$1,945,000	\$1,910,000	\$1,942,000	\$1,770,000	\$1,695,000	\$1,616,000
15	Capacity Fees	\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000
16	Total	\$344,992,683	\$368,248,620	\$378,890,501	\$393,735,139	\$395,256,140	\$417,741,565

Water Enterprise O&M Expenses

The Water Enterprise's O&M expenses primarily consist of personnel costs, administrative overhead costs, and other operating costs associated with water production, treatment, and delivery. Programmatic expenses are also considered part of the Water Enterprise's O&M expenses. O&M expense projections are based on the FY 2023 and FY 2024 adopted budgets and take into account both annual inflationary and execution factor assumptions.

Before accounting for execution factors, budgeted O&M expenses in FY 2024 were increased annually by inflationary assumptions (from Table 3-8) to establish preliminary O&M projections through FY 2028 (Table 3-9, Lines 1-11). All inflationary assumptions are consistent with the SFPUC staff's 10-Year Financial Plan. Benefits inflation is based on the City and County of San Francisco's Proposed Five-Year Financial Plan for FY 2022 through FY 2026.

⁹ Programmatic expenses include expenses associated with the SFPUC's headquarters building at 525 Golden Gate Avenue, a drought response program, a neighborhood stewardship program, Treasure Island maintenance, and other expenses associated with specific programs.

SFPUC staff conducted an analysis of actual versus budgeted Water Enterprise O&M expenses in prior years, which provided the basis for execution factor assumptions (Table 3-9, Lines 13-22). Execution factors represent the percentage of budgeted expenses actually incurred each year. Adjusted O&M expense projections (Table 3-9, Lines 24-34) were calculated by multiplying the preliminary O&M expense projections by the corresponding execution factors. Financial plan projections presented in the following sections incorporate the adjusted O&M expense projections, inclusive of execution factors.

Table 3-8: Inflationary Assumptions for Water Enterprise O&M Expenses

Line	Inflationary Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	General	Budget	Budget	3.00%	3.00%	3.00%	3.00%
2	Salary	Budget	Budget	3.00%	3.00%	3.00%	3.00%
3	Benefits	Budget	Budget	4.42%	4.42%	4.42%	4.42%

Table 3-9: Projected Water Enterprise O&M Expenses

Line	O&M Expense Summary	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	O&M Expenses (excl. Execution Factors	s)					
2	Personnel	\$114,521,247	\$116,940,812	\$120,936,111	\$125,072,809	\$129,356,099	\$133,791,373
3	Other Non-Personnel Services	\$21,802,517	\$21,554,576	\$22,201,213	\$22,867,250	\$23,553,267	\$24,259,865
4	Materials, Supplies & Equipment	\$20,185,324	\$20,415,984	\$21,028,464	\$21,659,317	\$22,309,097	\$22,978,370
5	Services of SFPUC Bureaus	\$63,140,408	\$64,047,698	\$65,969,129	\$67,948,203	\$69,986,649	\$72,086,248
6	Services of Other Departments	\$26,469,977	\$27,510,078	\$28,241,518	\$29,077,688	\$29,938,942	\$30,826,035
7	Hetch Hetchy Assessment	\$49,636,000	\$46,032,000	\$49,477,000	\$51,029,000	\$52,585,000	\$53,965,000
8	Other Operating Expenses	\$2,613,236	\$2,613,236	\$2,690,682	\$2,770,451	\$2,852,613	\$2,937,240
9	Work Orders	\$515,000	\$2,265,000	\$2,332,950	\$2,402,939	\$2,475,027	\$2,549,277
10	Programmatic Expenses	\$33,863,389	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186
11	Total	\$332,747,098	\$334,645,570	\$346,143,253	\$356,093,842	\$366,322,880	\$376,659,595
12							
13	Execution Factors						
14	Personnel	98.0%	98.0%	98.0%	98.0%	98.0%	98.0%
15	Other Non-Personnel Services	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
16	Materials, Supplies & Equipment	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
17	Services of SFPUC Bureaus	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
18	Services of Other Departments	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
19	Hetch Hetchy Assessment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
20	Other Operating Expenses	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
21	Work Orders	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
22	Programmatic Expenses	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
23							
24	O&M Expenses (incl. Execution Factors)					
25	Personnel	\$112,230,822	\$114,601,996	\$118,517,389	\$122,571,352	\$126,768,977	\$131,115,546
26	Other Non-Personnel Services	\$20,712,391	\$20,476,847	\$21,091,153	\$21,723,887	\$22,375,604	\$23,046,872
27	Materials, Supplies & Equipment	\$19,176,058	\$19,395,185	\$19,977,040	\$20,576,352	\$21,193,642	\$21,829,451
28	Services of SFPUC Bureaus	\$63,140,408	\$64,047,698	\$65,969,129	\$67,948,203	\$69,986,649	\$72,086,248
29	Services of Other Departments	\$26,469,977	\$27,510,078	\$28,241,518	\$29,077,688	\$29,938,942	\$30,826,035
30	Hetch Hetchy Assessment	\$49,636,000	\$46,032,000	\$49,477,000	\$51,029,000	\$52,585,000	\$53,965,000
31	Other Operating Expenses	\$1,306,618	\$1,306,618	\$1,345,341	\$1,385,225	\$1,426,306	\$1,468,620
32	Work Orders	\$489,250	\$2,151,750	\$2,216,303	\$2,282,792	\$2,351,275	\$2,421,814
33	Programmatic Expenses	\$33,863,389	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186
34	Total	\$327,024,913	\$328,788,358	\$340,101,058	\$349,860,685	\$359,892,582	\$370,025,772
35							
36	Overall Execution Factor	98.3%	98.2%	98.3%	98.2%	98.2%	98.2%

Water Enterprise Debt Service

Table 3-10 shows existing and proposed Water Enterprise debt service through FY 2028. The Water Enterprise's existing debt service includes principal and interest payments associated with outstanding revenue bonds and State Revolving Fund (SRF) Loans. Proposed debt service projections are based on

detailed projections from SFPUC staff's 10-Year financial plan and are associated with planned revenue bond issuances to fund the Water Enterprise CIP. Proposed debt service projections assume three new revenue bond issuances through FY 2028 (\$361.25 million in FY 2023, \$360 million in FY 2025, and \$360 million in FY 2027). Total issuance amounts include assumed interim financing costs associated with commercial paper. All proposed debt service was estimated based on a 5% interest rate, 30-year term, and 30 months of capitalized interest (which effectively delays debt repayment by 30 months but results in an overall increase in total debt service payments).

Table 3-10: Water Enterprise Debt Service

Line	Debt Service	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Existing Revenue Bond Debt Service	\$328,352,143	\$332,575,608	\$332,048,174	\$337,015,314	\$335,590,956	\$333,534,949
2	Existing SRF Bond Debt Service	\$0	\$923,816	\$1,587,615	\$8,739,151	\$9,175,886	\$9,452,785
3	Proposed Debt Service	\$0	\$0	\$1,751,735	\$27,898,491	\$29,690,107	\$56,432,137
4	Total	\$328.352.143	\$333,499,425	\$335.387.524	\$373.652.956	\$374.456.949	\$399,419,870

Water Enterprise Funding for Capital Expenditures

Table 3-11 shows the annual revenue budgeted as a funding source for capital expenditures, as approved in the SFPUC's FY 2024 10-Year Capital Improvement Plan. The revenue sources include capacity fees (i.e., one-time fees assessed to new development/intensified redevelopment), local revenue (i.e., Retail water sales), and regional revenue (i.e., a proportional allocation between Retail water sales and Wholesale water sales). The amounts shown do not represent annual spending on capital projects, but rather the amount of revenues appropriated each year through the SFPUC's budget process as a funding source for pay-as-you-go (i.e., cash funded) capital projects to meet the long-term capital replacement needs of the Water Enterprise.

Table 3-11: Water Enterprise Funding for Pay-as-you-go Capital Expenditures

	Funding for Pay-as-you-go						
Line	Capital Expenditures	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Capacity Fees	\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000
2	Local Revenue	\$20,604,600	\$20,579,658	\$51,559,000	\$57,100,000	\$38,545,000	\$30,000,000
3	Regional Revenue	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
4	Total	\$47,124,600	\$47,576,658	\$78,620,000	\$83,620,000	\$65,125,000	\$56,644,000

Status Quo Water Enterprise Financial Plan

To evaluate the need for future year rate increases (referred to as "revenue adjustments"), MME and Raftelis first developed a status quo financial plan. The status quo financial plan assumes that current FY 2023 retail water rates remain unchanged over the multi-year planning period. The status quo financial plan (Table 3-12) combines projected revenues under existing rates (from Table 3-5 and Table 3-7¹⁰), O&M expenses (from Table 3-9), debt service (from Table 3-10), and funding for pay-as-you-go capital expenditures (from Table 3-11) to project net revenue (revenue less O&M expenses), net cash flow (net revenue less debt service and funding for pay-as-you-go capital expenditures), reserve balances (for the entire Water Enterprise), and debt coverage.

¹⁰ Interest earnings in Table 3-12 are less than the amounts shown in FY 2025-FY 2028 in Table 3-7, as lower reserves under the status quo scenario will result in lesser interest earnings. The amounts shown Table 3-7 reflect interest earnings under the proposed financial plan shown in the next section.

Reserve balance projections (Table 3-12, Lines 55-58) are based off the Water Enterprise's beginning fund balance in FY 2023 (as of July 1, 2022) and projected net cash flow thereafter. Debt coverage (Table 3-12, Lines 62-65) is shown based on the "Current Coverage" test only, which is significantly more stringent than the "Indenture Coverage" test. Net revenues used to calculate debt coverage (Table 3-12, Line 63) exclude specific revenues and expenses, which are legally restricted from being used to pay for debt service or are not considered SFPUC operating expenses. Additionally, net revenues used to calculate debt coverage include fund balance budgeted as revenue, which is in alignment with SFPUC staff's 10-Year financial plan. Projected reserve balances and debt coverage under the status quo financial plan are also shown in graphical format in Figure 3-1 and Figure 3-2 over an extended timeframe through FY 2033 to provide a longer-term financial outlook. See Appendix A for supporting financial plan projections beyond FY 2028.

In the absence of any revenue adjustments, the Water Enterprise's reserve balance is projected to fall below the minimum level (per the SFPUC's Fund Balance Reserve Policy) beginning in FY 2027. Furthermore, reserves are projected to be fully depleted in FY 2028. Debt coverage is projected to fall below the SFPUC's target level (per the SFPUC's Debt Service Coverage Policy) in FY 2026 – FY 2033. More significantly, debt coverage is projected to fall below the required level per the SFPUC's bond covenants beginning in FY 2027. The status quo financial plan is insufficient to meet the Water Enterprise's financial needs through FY 2033. This demonstrates a clear need for near-term revenue adjustments to increase retail water rate revenues and ensure that the Water Enterprise's financial needs are met.

Table 3-12: Status Quo Water Enterprise Financial Plan

Line	Water Enterprise Financial Plan	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Retail Rate Revenue from Existing Rates						
2	In-City Retail (excl. Treasure Island)	\$315,952,677	\$320,363,230	\$311,134,470	\$315,562,071	\$312,610,863	\$310,583,793
3	Suburban Retail	\$14,262,607	\$15,741,059	\$15,221,128	\$15,440,783	\$15,242,199	\$15,090,208
4 5	Less Contract Rate Revenue Total Rate Revenue subject to Adjustments	(\$508,554)	(\$561,118) \$335,543,171	(\$557,017)	(\$544,961) \$330,457,894	(\$552,849) \$327,300,214	(\$550,544) \$325,123,456
5 6	Total Rate Revenue Subject to Adjustments	\$329,706,730	\$335,543,1 <i>1</i> 1	\$325,798,581	\$33U,45 <i>T</i> ,694	\$327,300,214	\$325,123,456
7	Proposed Revenue Adjustments						
8	Fiscal Revenue Month						
9	Year Adjustment Effective						
10	FY 2024 0.0% July	\$0	\$0	\$0	\$0	\$0	\$0
11	FY 2025 0.0% July	\$0	\$0	\$0	\$0	\$0	\$0
12 13	FY 2026 0.0% July FY 2027 0.0% July	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
14	FY 2027 0.0% July FY 2028 0.0% July	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
15	Total Revenue Adjustments	\$0	\$0	\$0	\$0	\$0	\$0
16	•						
17	REVENUE						
18	Retail Rate Revenue incl. Adjustments	\$330,215,284	\$336,104,288	\$326,355,598	\$331,002,855	\$327,853,063	\$325,674,000
19	CAP Use of Revenues	(\$1,245,932)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)
20 21	Wholesale Water Sales Interest Income	\$289,598,379 \$1,109,000	\$316,979,387 \$1,133,000	\$326,505,882 \$1,133,273	\$341,633,834 \$804,576	\$342,654,481 \$406,013	\$364,404,777 \$5,565
22	Rental Income	\$13,136,000	\$13,595,800	\$13,964,246	\$14,321,731	\$14,688,367	\$15,064,389
23	Federal Bond Interest Subsidy	\$21,289,804	\$21,317,856	\$21,184,845	\$20,849,738	\$20,536,693	\$20,098,912
24	Other Misc Income	\$12,429,431	\$13,067,577	\$13,596,883	\$14,021,344	\$14,486,674	\$14,917,017
25	Programmatic Revenues	\$7,156,000	\$7,158,000	\$7,277,000	\$7,202,000	\$7,223,000	\$7,234,000
26	Capacity Fees	\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000
27 28	TOTAL REVENUE	\$675,207,967	\$704,352,909	\$705,078,728	\$724,356,078	\$722,428,291	\$742,042,660
29	O&M Expenses						
30	Personnel	\$112,230,822	\$114,601,996	\$118,517,389	\$122,571,352	\$126,768,977	\$131,115,546
31	Other Non-Personnel Services	\$20,712,391	\$20,476,847	\$21,091,153	\$21,723,887	\$22,375,604	\$23,046,872
32	Materials, Supplies & Equipment	\$19,176,058	\$19,395,185	\$19,977,040	\$20,576,352	\$21,193,642	\$21,829,451
33	Services of SFPUC Bureaus	\$63,140,408	\$64,047,698	\$65,969,129	\$67,948,203	\$69,986,649	\$72,086,248
34	Services of Other Departments	\$26,469,977	\$27,510,078	\$28,241,518	\$29,077,688	\$29,938,942	\$30,826,035
35 36	Hetch Hetchy Assessment Other Operating Expenses	\$49,636,000 \$1,795,868	\$46,032,000 \$3,458,368	\$49,477,000 \$3,561,643	\$51,029,000 \$3,668,017	\$52,585,000 \$3,777,582	\$53,965,000 \$3,890,434
37	Programmatic Expenses	\$33,863,389	\$33,266,186	\$33,266,186	\$3,008,017	\$33,266,186	\$33,266,186
38	TOTAL O&M	\$327,024,913	\$328,788,358	\$340,101,058	\$349,860,685	\$359,892,582	\$370,025,772
39							
40	NET REVENUE	\$348,183,054	\$375,564,551	\$364,977,669	\$374,495,393	\$362,535,709	\$372,016,888
41	DEDT OFFINIOF						
42 43	DEBT SERVICE Existing Debt Service	\$328,352,143	\$333,499,425	\$333,635,790	\$345,754,465	\$344,766,842	\$342,987,734
43	Proposed Debt Service	\$0	\$333,499,425 \$0	\$1,751,735	\$27,898,491	\$29,690,107	\$56,432,137
45	TOTAL DEBT SERVICE	\$328,352,143	\$333,499,425	\$335,387,524	\$373,652,956	\$374,456,949	\$399,419,870
46							
47	FUNDING FOR PAY-AS-YOU-GO CIP						
48	Capacity Fees	\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000
49 50	Local Revenue Regional Revenue	\$20,604,600	\$20,579,658	\$51,559,000	\$57,100,000 \$25,000,000	\$38,545,000	\$30,000,000 \$25,000,000
51	TOTAL FUNDING FOR PAY-AS-YOU-GO CIP	\$25,000,000 \$47,124,600	\$25,000,000 \$47,576,658	\$25,000,000 \$78,620,000	\$83,620,000	\$25,000,000 \$65,125,000	\$56,644,000
52	TOTAL TONDING FOR FAT-AG-100-00 GI	Ψ+7,124,000	Ψ47,070,000	ψ10,020,000	400,020,000	400,120,000	400,044,000
53	NET CASH FLOW	(\$27,293,689)	(\$5,511,532)	(\$49,029,855)	(\$82,777,563)	(\$77,046,240)	(\$84,046,982)
54							
55	FUND BALANCE (excl. Proposed Debt Proceeds)						
56	Beginning Balance	\$284,541,332	\$257,247,642	\$251,736,111	\$202,706,255	\$119,928,692	\$42,882,452
57	Net Cash Flow	(\$27,293,689)	(\$5,511,532)	(\$49,029,855)	(\$82,777,563)	(\$77,046,240)	(\$84,046,982)
58 50	ENDING BALANCE	\$257,247,642 78.7%	\$251,736,111 76.6%	\$202,706,255	\$119,928,692	\$42,882,452	(\$41,164,529)
59 60	Ending Balance (% of Annual O&M) Minimum Reserve Target (% of Annual O&M)	78.7% 25.0%	76.6% 25.0%	59.6% 25.0%	34.3% 25.0%	11.9% 25.0%	-11.1% 25.0%
61	miniman Noscive Target (70 of Allitual Odivi)	25.076	25.076	25.070	25.070	25.070	20.076
62	CURRENT DEBT SERVICE COVERAGE TEST						
63	Net Revenue Subject to Debt Coverage Test	\$352,766,443	\$380,143,737	\$369,437,855	\$379,030,579	\$367,086,895	\$376,596,074
64	Projected Debt Coverage	1.28	1.19	1.10	1.01	0.98	0.94
65	Required Debt Coverage	1.10	1.10	1.10	1.10	1.10	1.10

Figure 3-1: Projected Reserve Balances under Status Quo Water Enterprise Financial Plan

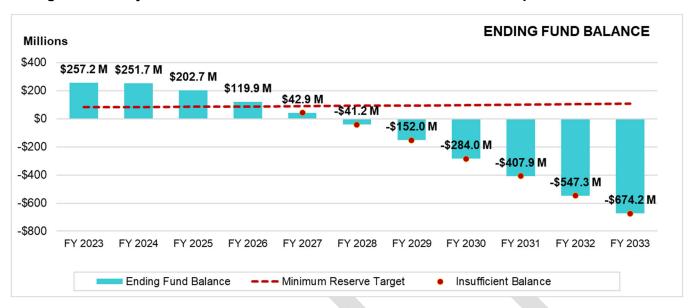
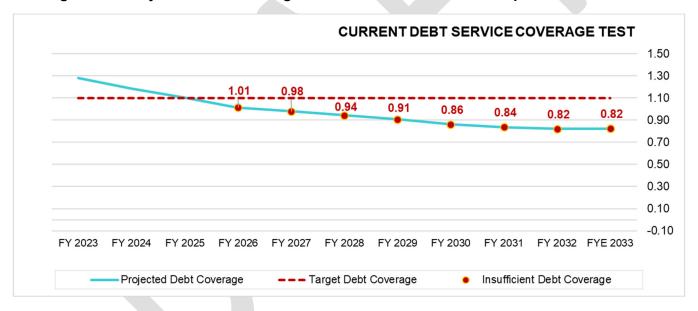


Figure 3-2: Projected Debt Coverage under Status Quo Water Enterprise Financial Plan



Proposed Water Enterprise Financial Plan

The Water Enterprise must increase its revenues from retail water rates to adequately fund its O&M expenditures, meet required debt coverage, and maintain sufficient reserve funding in the near term. SFPUC staff evaluated various scenarios using its 10-Year Financial Plan Model before arriving at the proposed and planned revenue adjustments (i.e., overall annual rate increases) shown below in Table 3-13. The proposed revenue adjustments ensure the Water Enterprise meets all its financial policies throughout the entire ten-year planning period, with some buffer in case of unexpected expenditures or revenue reductions. All revenue adjustments are assumed to become effective at the beginning of each fiscal year in July. Note that although this report includes financial projections over a ten-year period, SFPUC staff is only recommending that the Commission consider adoption of three years of proposed rates (i.e., FY 2024 - FY 2026).

		Revenue	Effective	
Line	Fiscal Year	Adjustment	Date	Notes
1	FY 2024	5.0%	7/1/2023	Proposed
2	FY 2025	5.0%	7/1/2024	Proposed
3	FY 2026	5.0%	7/1/2025	Proposed
4	FY 2027	4.0%	7/1/2026	For Near-Term Planning Purposes Only
5	FY 2028	4.0%	7/1/2027	For Near-Term Planning Purposes Only
6	FY 2029	4.0%	7/1/2028	For Long-Term Planning Purposes Only
7	FY 2030	3.0%	7/1/2029	For Long-Term Planning Purposes Only
8	FY 2031	3.0%	7/1/2030	For Long-Term Planning Purposes Only
9	FY 2032	3.0%	7/1/2031	For Long-Term Planning Purposes Only
10	FY 2033	3.0%	7/1/2032	For Long-Term Planning Purposes Only

Table 3-13: Proposed Water Enterprise Revenue Adjustments

The proposed financial plan (Table 3-14) was developed using the same calculation methodology outlined in the previous section for the status quo financial plan (from Table 3-12). The key difference is the inclusion of additional retail water rate revenue (Table 3-14, Lines 7-15). The additional revenue from the proposed adjustments is calculated based on current revenue from retail water rates, exclusive of revenue from contract customers (which are subject to unique rates stipulated in each contract). The proposed revenue adjustments are projected to generate an additional \$52 million in annual retail water rate revenue relative to current rates by FY 2026.

With the addition of the proposed and planned revenue adjustments, the Water Enterprise's reserve balance is projected to meet the minimum level (per the SFPUC's Fund Balance Reserve Policy) each year. Debt coverage is projected to meet the SFPUC's required level (per the SFPUC's Debt Service Coverage Policy) in all years. Projected reserve balances and debt coverage under the proposed financial plan are also shown in Figure 3-3 and Figure 3-4 over an extended timeframe through FY 2033 to provide a longer-term financial outlook. See Appendix A for supporting financial plan projections beyond FY 2028. The proposed financial plan demonstrates a multi-year plan that generates sufficient revenue to meet the SFPUC's official financial policies.

Note that SFPUC staff and Raftelis opted for a levelized approach to capital planning for the purpose of setting rates to avoid any rate spikes across years during the study period. The proposed financial plan results in fund balances above the minimum reserve amount to provide added contingency given the uncertainty in future capital spending needs in any given year, and to ensure sufficient cash on hand once Drought

Surcharges are no longer in effect. Under the proposed financial plan, reserves are projected to be gradually drawn down to provide funding for capital needs.

Table 3-14: Proposed Water Enterprise Financial Plan

Line	Water Enterprise Financial Plan	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Retail Rate Revenue from Existing Rates	F1 2023	F1 2024	F1 2025	F1 2020	F1 2021	F1 2020
2	In-City Retail (excl. Treasure Island)	\$315,952,677	\$320,363,230	\$311,134,470	\$315,562,071	\$312,610,863	\$310,583,793
3	Suburban Retail	\$14,262,607	\$15,741,059	\$15,221,128	\$15,440,783	\$15,242,199	\$15,090,208
4	Less Contract Rate Revenue	(\$508,554)	(\$561,118)	(\$557,017)	(\$544,961)	(\$552,849)	(\$550,544)
5	Total Rate Revenue subject to Adjustments	\$329,706,730	\$335,543,171	\$325,798,581	\$330,457,894	\$327,300,214	\$325,123,456
6	rotal rate revenue subject to raquelmente	4020,700,700	4000,040,111	4020 ,7 00 ,00	4000,401,004	4021,000,214	4020 , 120, 400
7	Proposed Revenue Adjustments						
8	Fiscal Revenue Month						
9	Year Adjustment Effective						
10	FY 2024 5.0% July	\$0	\$16,777,159	\$16,289,929	\$16,522,895	\$16,365,011	\$16,256,173
11	FY 2025 5.0% July	\$0	\$0	\$17,104,425	\$17,349,039	\$17,183,261	\$17,068,981
12	FY 2026 5.0% July	\$0	\$0	\$0	\$18,216,491	\$18,042,424	\$17,922,431
13	FY 2027 4.0% July	\$0	\$0	\$0	\$0	\$15,155,636	\$15,054,842
14	FY 2028 4.0% July	\$0	\$0	\$0	\$0	\$0	\$15,657,035
15	Total Revenue Adjustments	\$0	\$16,777,159	\$33,394,355	\$52,088,425	\$66,746,333	\$81,959,462
16	DEVENUE						
17	REVENUE	0000 045 004	0050 004 447	#050 7 40 050	# 000 004 000	****	A407.000.400
18	Retail Rate Revenue incl. Adjustments	\$330,215,284	\$352,881,447	\$359,749,953	\$383,091,280	\$394,599,395	\$407,633,462
19	CAP Use of Revenues	(\$1,245,932)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)
20 21	Wholesale Water Sales Interest Income	\$289,598,379 \$1,109,000	\$316,979,387 \$1,133,000	\$326,505,882 \$1,300,644	\$341,633,834 \$1,186,491	\$342,654,481 \$1,086,925	\$364,404,777 \$1,378,470
22	Rental Income	\$13,136,000	\$13,595,800	\$13,964,246	\$14,321,731	\$1,080,925	\$15,064,389
23	Federal Bond Interest Subsidy	\$21,289,804	\$21,317,856	\$21,184,845	\$20,849,738	\$20,536,693	\$20,098,912
24	Other Misc Income	\$12,429,431	\$13,067,577	\$13,596,883	\$14,021,344	\$14,486,674	\$14,917,017
25	Programmatic Revenues	\$7,156,000	\$7,158,000	\$7,277,000	\$7,202,000	\$7,223,000	\$7,234,000
26	Capacity Fees	\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000
27	TOTAL REVENUE	\$675,207,967	\$721,130,067	\$738,640,454	\$776,826,419	\$789,855,535	\$825,375,027
28							
29	O&M Expenses						
30	Personnel	\$112,230,822	\$114,601,996	\$118,517,389	\$122,571,352	\$126,768,977	\$131,115,546
31	Other Non-Personnel Services	\$20,712,391	\$20,476,847	\$21,091,153	\$21,723,887	\$22,375,604	\$23,046,872
32	Materials, Supplies & Equipment	\$19,176,058	\$19,395,185	\$19,977,040	\$20,576,352	\$21,193,642	\$21,829,451
33	Services of SFPUC Bureaus	\$63,140,408	\$64,047,698	\$65,969,129	\$67,948,203	\$69,986,649	\$72,086,248
34	Services of Other Departments	\$26,469,977	\$27,510,078	\$28,241,518	\$29,077,688	\$29,938,942	\$30,826,035
35	Hetch Hetchy Assessment	\$49,636,000	\$46,032,000	\$49,477,000	\$51,029,000	\$52,585,000	\$53,965,000
36	Other Operating Expenses	\$1,795,868	\$3,458,368	\$3,561,643	\$3,668,017	\$3,777,582	\$3,890,434
37 38	Programmatic Expenses TOTAL O&M	\$33,863,389	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186
39	TOTAL OWN	\$327,024,913	\$328,788,358	\$340,101,058	\$349,860,685	\$359,892,582	\$370,025,772
40	NET REVENUE	\$348,183,054	\$392,341,709	\$398,539,395	\$426,965,734	\$429,962,954	\$455,349,256
41				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
42	DEBT SERVICE						
43	Existing Debt Service	\$328,352,143	\$333,499,425	\$333,635,790	\$345,754,465	\$344,766,842	\$342,987,734
44	Proposed Debt Service	\$0	\$0	\$1,751,735	\$27,898,491	\$29,690,107	\$56,432,137
45	TOTAL DEBT SERVICE	\$328,352,143	\$333,499,425	\$335,387,524	\$373,652,956	\$374,456,949	\$399,419,870
46	FUNDING FOR BAY AS YOU SO SID						
47	FUNDING FOR PAY-AS-YOU-GO CIP	#4 500 000	04 007 000	00 004 000	0.4 500 000	04 500 000	04.044.000
48	Capacity Fees	\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000 \$30.000.000
49 50	Local Revenue	\$20,604,600	\$20,579,658	\$51,559,000	\$57,100,000	\$38,545,000	, ,
51	Regional Revenue TOTAL FUNDING FOR PAY-AS-YOU-GO CIP	\$25,000,000 \$47,124,600	\$25,000,000 \$47,576,658	\$25,000,000 \$78,620,000	\$25,000,000 \$83,620,000	\$25,000,000 \$65,125,000	\$25,000,000 \$56,644,000
52	TOTAL FUNDING FOR FAT-AS-100-90 CIF	447,124,000	\$41,510,030	\$70,020,000	\$65,620,000	\$65,125,000	\$30,044,000
53	NET CASH FLOW	(\$27,293,689)	\$11,265,627	(\$15,468,129)	(\$30,307,222)	(\$9,618,995)	(\$714,615)
54	112. 0.0 2011	(+2:,200,000)	*** 1,200,021	(+10,100,120)	(+00,001,122)	(+0,0.0,000)	(+11,010)
55	FUND BALANCE (excl. Proposed Debt Proceeds)						
56	Beginning Balance	\$284,541,332	\$257,247,642	\$268,513,269	\$253,045,140	\$222,737,918	\$213,118,923
57	Net Cash Flow	(\$27,293,689)	\$11,265,627	(\$15,468,129)	(\$30,307,222)	(\$9,618,995)	(\$714,615)
58	ENDING BALANCE	\$257,247,642	\$268,513,269	\$253,045,140	\$222,737,918	\$213,118,923	\$212,404,308
59	Ending Balance (% of Annual O&M)	78.7%	81.7%	74.4%	63.7%	59.2%	57.4%
60	Minimum Reserve Target (% of Annual O&M)	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
61							
	CURRENT DEBT SERVICE COVERAGE TEST						
63	Net Revenue Subject to Debt Coverage Test	\$352,766,443	\$396,920,895	\$402,999,581	\$431,500,920	\$434,514,140	\$459,928,442
64	Projected Debt Coverage	1.28	1.24	1.20	1.15	1.16	1.15
65	Required Debt Coverage	1.10	1.10	1.10	1.10	1.10	1.10

Figure 3-3: Projected Reserve Balances under Proposed Water Enterprise Financial Plan

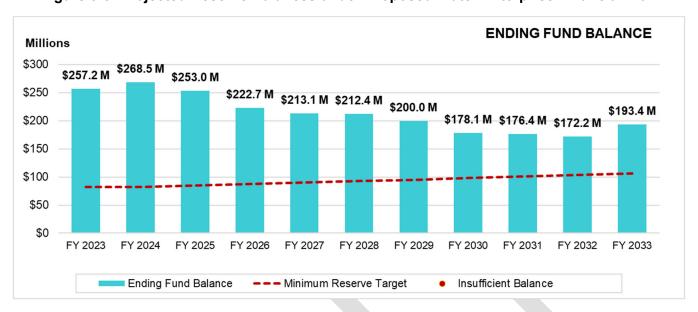
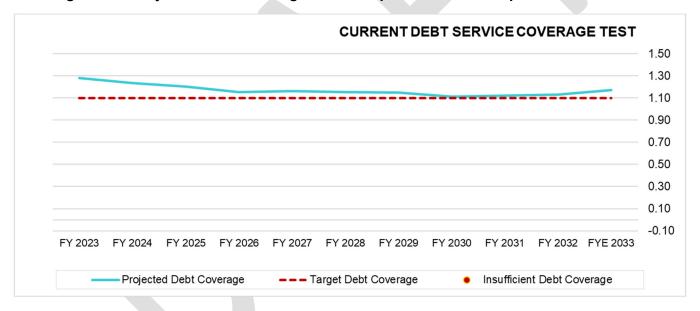


Figure 3-4: Projected Debt Coverage under Proposed Water Enterprise Financial Plan



4. Water Cost of Service Analysis

This section details the water cost of service (COS) analysis performed for the Water Enterprise. The COS analysis allocates the overall retail water rate revenue requirement to customer classes based on their cost burden on the water system. As stated in the American Water Works Association (AWWA) M1 Manual, "the costs of water rates and charges should be recovered from classes of customers in proportion to the cost of serving those customers." To develop retail water rates that comply with Proposition 218 and industry standards while meeting other goals and objectives of the SFPUC, we follow the COS methodology outlined below.

4.1. Water Cost of Service Methodology

The framework and methodology used to develop the COS analysis and to apportion the revenue requirement to each customer class is informed by the processes outlined in the M1 Manual. COS analyses are tailored specifically to meet the unique needs of each water system. However, there are five distinct steps in every COS analysis to recover costs from customers in an equitable and defensible manner:

- 1. **Revenue requirement determination**: The first step in the COS analysis is to determine the revenue required from rates, which is determined directly from the results of the proposed financial plan presented in the previous section.
- Cost functionalization: Expenses are categorized based on their associated function in the water system. Functions include water supply, treatment, storage, transmission, distribution, customer service, etc.
- 3. **Cost component allocation**: Functionalized expenses are then allocated to cost components based on the associated burden on the water system. Cost components include raw water supply, base delivery, extra capacity, meters, customer service, etc. The revenue requirement is allocated accordingly to each cost component and results in a total revenue requirement for each cost component.
- 4. **Unit cost development**: The revenue requirement for each cost component is divided by the appropriate units of service to determine the unit cost for each cost component.
- 5. **Revenue requirement distribution**: Unit costs for each cost component are used to distribute the revenue requirement to customer classes based on each class's proportional use of the water system.

4.2. Water Revenue Requirement Determination

A COS analysis allocates the rate revenue requirement for a single rate-setting year, typically referred to as the "test year." In this study, the test year is FY 2024 (i.e., the first year of the proposed three-year rate schedule). Table 4-1 shows the total retail water rate revenue requirement for FY 2024 (Line 24), which is equal to the sum of revenue requirements (Lines 1-5), revenue offsets (Lines 7-18), and adjustments (Lines 20-22).

Revenue requirements (Lines 1-5) include the sum of FY 2024 O&M expenses, debt service, and pay-as-you-go funding for CIP per the proposed financial plan (from Table 3-14). Revenue offsets (Lines 7-18) include all other revenues per the proposed financial plan (from Table 3-14), as well as Contract Rate Revenue and Drought Surcharges. Total revenue offsets (Line 18) are applied as a funding source for the overall revenue requirement (Line 5) to effectively reduce the total rate revenue requirement (Line 24). Finally, an adjustment is added (Line 21) to account for contributions to reserves, which is equal to FY 2024 net cash flow per the proposed financial plan (from Table 3-14). The total retail rate revenue requirement (Line 24) is the total

revenue to be recovered by Fixed Monthly Service Charges, Fire Service Fixed Monthly Service Charges, and Variable Charges in FY 2024, inclusive of additional revenue from the 5% proposed revenue adjustment.

Table 4-1: Annualized Retail Water Rate Revenue Requirements for FY 2024

Line	Retail Water Rate Revenue Requirement	FY 2024
1	Revenue Requirements	
2	O&M Expenses	\$328,788,358
3	Debt Service	\$333,499,425
4	Funding for Pay-as-you-go CIP	\$47,576,658
5	Subtotal	\$709,864,441
6		
7	Revenue Offsets	
8	Contract Rate Revenue	(\$561,118)
9	CAP Use of Revenues	\$7,000,000
10	Wholesale Water Sales	(\$316,979,387)
11	Interest Income	(\$1,133,000)
12	Rental Income	(\$13,595,800)
13	Federal Bond Interest Subsidy	(\$21,317,856)
14	Other Misc Income	(\$13,067,577)
15	Programmatic Revenues	(\$7,158,000)
16	Capacity Fees	(\$1,997,000)
17	Drought Surcharges	(\$13,610,049)
18	Subtotal	(\$382,419,786)
19		
20	Adjustments	
21	Contribution to (Draw from) Reserves	\$11,265,627
22	Subtotal	\$11,265,627
23		
24	Total Retail Rate Revenue Requirement	\$338,710,281

4.3. Water Revenue Requirement Functionalization

The next step of the COS analysis is to allocate the total retail rate revenue requirement to the following water system functions:

- » **Surface Water Supply**: relating to the SFPUC's primary raw surface water supplies, including Hetch Hetchy and the Alameda and Peninsula watersheds
- » **Alternative Water Supply**: relating to water resources planning efforts for future alternative water supply sources
- » **Groundwater**: relating to the San Francisco Groundwater Supply Project
- » Recycled Water: relating to the Harding Park Recycled Water Project and Pacifica Recycled Water Project
- **Water Conservation:** relating to water conservation, outreach, and efficiency programs
- » **Pumping**: relating to transport of water across elevation gradients
- » **Transmission**: relating to the potable water transmission system
- » **Distribution**: relating to the delivery of potable water from storage facilities to the end user
- » **Storage**: relating to potable water storage tanks and reservoirs

- **Treatment**: relating to the treatment of water to potable standards
- » Water Quality: relating to water quality testing
- » **Meters**: relating to water meters (including maintenance and replacement)
- » Hydrants / Alternative Water Supply System (AWSS): relating to fire protection provided by hydrants on both the primary potable water distribution system and the Alternative Water Supply System
- » **Private Fire Service**: relating to private fire service connections
- » Customer Service: relating to meter reading, billing, customer call center services, and other customer service functions
- » **Indirect General**: relating to general administration and overhead, as well as any activities not directly attributable to one of the above functions
- » Revenue Offsets: relating specifically to any other revenues not attributed to any of the above functions

To allocate the retail water rate revenue requirement to the above functions, the following functional allocation bases were first established (see Table 4-2):

- » O&M Functional Basis: SFPUC staff conducted a detailed analysis of the Water Enterprise's FY 2024 budgeted operating and programmatic expenses. Expenses were evaluated at the departmental level and allocated across the various functions based on the best available information provided by each department's management. Most departments allocated costs based on the percentage of staff time devoted to each functional activity. See Appendix B for detailed functional allocations.
- » Debt Functional Basis: SFPUC staff conducted a detailed analysis of the Water Enterprise's existing revenue bond debt service over the next five years (FY 2024-FY 2028). The debt service for each revenue bond series was individually allocated based on the functions of the associated capital projects funded by each bond series. See Appendix C for detailed functional allocations.
- CIP Functional Basis: SFPUC staff conducted a detailed analysis of the Water Enterprise's planned CIP projects (both local and regional) over the next five years (FY 2024-FY 2028). Each capital project was allocated on an individual basis to one or multiple functions. See Appendix D for detailed functional allocations.
- Wholesale Revenue Functional Basis: SFPUC staff conducted a detailed analysis of wholesale customers' share of the Water Enterprise expenses over the next five years (FY 2024-FY 2028). This functional allocation basis is required to accurately allocate projected wholesale water sales revenue, which constitutes over 40% of total Water Enterprise revenues. See Appendix E for detailed functional allocations.
- » Federal Bond Interest Subsidy Functional Basis: The Water Enterprise's federal bond interest subsidy is associated with three specific outstanding revenue bonds and one SRF Loan. A specific functional allocation basis was developed to accurately allocate this subsidy across the various functions. The debt service for each of the three associated revenue bonds and one SRF Loan was individually allocated based on the associated functions of the capital projects funded by each bond/loan. See Appendix F for detailed functional allocations.
- Indirect Functional Basis: This functional allocation basis is not based on detailed analysis of expenses. It simply represents a 100% allocation to the "Indirect General" function.

» **Revenue Offset Functional Basis**: This functional allocation basis is not based on detailed analysis of expenses. It simply represents a 100% allocation to the "Revenue Offsets" function.

(A) (B) (C) (D) (E)

		(A)	(B)	(C)	(D)	(E)	(F)	(G)
						Federal		
						Bond		
					Wholesale	Interest		Revenue
Line	Functions	O&M	Debt	CIP	Revenue	Subsidy	Indirect	Offsets
1	Surface Water Supply	32.88%	17.56%	1.02%	28.30%	20.92%	0.00%	0.00%
2	Alternative Water Supply	0.06%	0.17%	6.07%	0.56%	0.00%	0.00%	0.00%
3	Groundwater	0.65%	2.79%	0.00%	1.67%	1.02%	0.00%	0.00%
4	Recycled Water	1.74%	0.60%	2.79%	0.37%	0.78%	0.00%	0.00%
5	Water Conservation	3.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	Pumping	2.36%	3.51%	1.42%	1.76%	2.12%	0.00%	0.00%
7	Transmission	8.77%	47.81%	17.38%	37.25%	51.77%	0.00%	0.00%
8	Distribution	5.64%	3.64%	25.45%	0.25%	0.00%	0.00%	0.00%
9	Storage	0.32%	7.09%	8.88%	3.87%	4.45%	0.00%	0.00%
10	Treatment	21.76%	15.23%	25.92%	24.26%	16.34%	0.00%	0.00%
11	Water Quality	10.22%	0.00%	3.77%	0.07%	0.00%	0.00%	0.00%
12	Meters	2.46%	1.57%	1.69%	0.51%	0.00%	0.00%	0.00%
13	Hydrants / AWSS	3.46%	0.04%	4.27%	0.01%	0.00%	0.00%	0.00%
14	Private Fire Service	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
15	Customer Service	6.19%	0.00%	1.33%	1.11%	0.00%	0.00%	0.00%
16	Indirect - General	0.00%	0.00%	0.00%	0.00%	2.60%	100.00%	0.00%
17	Revenue Offsets	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
18	Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Table 4-2: Water Enterprise Functional Allocations Bases

Table 4-3 shows the allocation of the FY 2024 retail water rate revenue requirement to each function. Each component of the rate revenue requirement in Lines 1-25 (from Table 4-1) is allocated based on the seven functional allocation bases (from Table 4-2). The total amount associated with each component (in Table 4-3, Column A, Lines 1-25) is distributed to each function based on the corresponding functional allocation basis percentages (from Table 4-2). This results in the overall allocation of the total retail water rate revenue requirement to each function (in Table 4-3, Column A, Lines 27-46)

O&M expenses, debt service, funding for pay-as-you-go CIP, wholesale water sales, and the federal bond interest subsidy are all allocated based on the functional allocation basis that clearly corresponds with each component. Contract rate revenue, programmatic revenues, and drought surcharges all include rate revenues excluded from the scope of this COS analysis and are therefore most appropriately allocated on an indirect functional allocation basis. Capacity fees are typically used to fund capital projects and are therefore allocated based on the CIP functional allocation basis. All other revenue offsets are simply allocated based on the Revenue Offsets functional allocation basis. The contribution to reserves is allocated based on the CIP functional allocation basis, as reserve funding is generally most attributable to future capital funding.

^{*}AWWS refers to the Alternative Water Supply System

Table 4-3: Allocation of FY 2024 Retail Water Rate Revenue Requirement to Functions

1e	Description	(A)	(B)
	RETAIL RATE REVENUE REQUIREMENT	FY 2024 (\$)	Functional Allocation Basis
<u> </u>	Revenue Requirements		
3	O&M Expenses	\$328,788,358	O&M
ļ.	Debt Service	\$333,499,425	
5	Funding for Pay-as-you-go CIP	\$47,576,658	
6	Subtotal	\$709,864,441	•
,		******	
3	Revenue Offsets		
)	Contract Rate Revenue	(\$561,118)	Indirect
0	CAP Use of Revenues		Revenue Offsets
1	Wholesale Water Sales		Wholesale Revenue
2	Interest Income	,	Revenue Offsets
3	Rental Income		Revenue Offsets
3 4	Federal Bond Interest Subsidy	,	Federal Bond Interest Subs
4 5	Other Misc Income		Revenue Offsets
5 6	Programmatic Revenues	(\$7,158,000)	
o 7	-		
	Capacity Fees	(\$1,997,000)	
8 9	Drought Surcharges	(\$13,610,049)	
	Subtotal	(\$382,419,786)	
0	A.P. days de		
1	Adjustments		
2	Contribution to (Draw from) Reserves	\$11,265,627	CIP
	Subtotal	£11 265 627	
3	Gustotui	\$11,265,627	
4			-
4 5	Total Retail Rate Revenue Requirement	\$338,710,281	
4 5 6	Total Retail Rate Revenue Requirement	\$338,710,281	
4 5 6 7	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS		FY 2024 (%)
4 5 6 7 8	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions	\$338,710,281 FY 2024 (\$)	,
4 5 6 7 8	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply	\$338,710,281 FY 2024 (\$) \$73,071,935	21.57%
4 5 6 7 8 9	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496	21.57% 0.72%
4 5 6 7 8 9 0	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222	21.57% 0.72% 1.75%
4 5 6 7 8 9 0 1	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879	21.57% 0.72% 1.75% 2.36%
4 5 6 7 8 9 0 1 2 3	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074	21.57% 0.72% 1.75% 2.36% 3.35%
4 5 6 7 8 9 0 1 2 3 4	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877	21.57% 0.72% 1.75% 2.36% 3.35% 4.21%
4 5 6 7 8 9 0 1 1 2 3 4 5	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38%
4 5 6 7 8 9 0 1 2 3 4 5 6	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877	21.57% 0.72% 1.75% 2.36% 3.35% 4.21%
4 5 6 7 8 9 0 1 1 2 3 4 5	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38%
4 5 6 7 8 9 0 1 2 3 4 5 6	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10%
4 5 6 7 8 9 0 1 2 3 4 5 6 7	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88%
4 5 6 7 8 9 0 1 2 3 4 5 6 7 8	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage Treatment Water Quality Meters	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769 \$56,713,182	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88% 16.74%
4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 9 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage Treatment Water Quality	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769 \$56,713,182 \$35,531,727	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88% 16.74% 10.49%
4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 9 0 1 2 3 7 8 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage Treatment Water Quality Meters	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769 \$56,713,182 \$35,531,727 \$12,683,934	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88% 16.74% 10.49% 3.74%
4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 1 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage Treatment Water Quality Meters Hydrants / AWSS	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769 \$56,713,182 \$35,531,727 \$12,683,934 \$13,890,792	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88% 16.74% 10.49% 3.74% 4.10%
4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage Treatment Water Quality Meters Hydrants / AWSS Private Fire Service	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769 \$56,713,182 \$35,531,727 \$12,683,934 \$13,890,792 \$66,678	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88% 16.74% 10.49% 3.74% 4.10% 0.02% 5.19%
4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 3 3 3	Total Retail Rate Revenue Requirement ALLOCATION OF RETAIL RATE REVENUE REQUIREMENT TO FUNCTIONS Functions Surface Water Supply Alternative Water Supply Groundwater Recycled Water Water Conservation Pumping Transmission Distribution Storage Treatment Water Quality Meters Hydrants / AWSS Private Fire Service Customer Service	\$338,710,281 FY 2024 (\$) \$73,071,935 \$2,437,496 \$5,912,222 \$7,989,879 \$11,341,074 \$14,246,877 \$69,023,385 \$44,360,706 \$16,526,769 \$56,713,182 \$35,531,727 \$12,683,934 \$13,890,792 \$66,678 \$17,593,763	21.57% 0.72% 1.75% 2.36% 3.35% 4.21% 20.38% 13.10% 4.88% 16.74% 10.49% 3.74% 4.10% 0.02% 5.19%

4.4. Water Revenue Requirement Allocation to Cost Causation Components

The next step in the COS analysis is to allocate the functionalized retail water rate revenue requirement to various cost components. Cost components (also known as cost causation components) represent different cost categories that are used to characterize and distribute costs to each customer class. Some cost components directly correspond to a single function. The cost components include:

- » Raw Water Supply: costs associated with obtaining water supplies prior to treatment
- » Base Delivery: costs associated with providing water under average water demand (i.e., base demand) conditions
- » Extra Capacity: costs associated with providing water during peak water demand conditions
- » **Customer Service**: costs associated with meter reading, billing, customer call center services, and other customer service functions; directly corresponds to the "Customer Service" function
- » Meters: costs associated with meter maintenance and replacement; directly corresponds to the "Meters" function
- » **Private Fire Service**: Costs associated with fire protection provided by private fire service connections; directly corresponds to the "Private Fire Service" function
- » **Revenue Offsets**: directly corresponds to the "Revenue Offsets" function

Systemwide Peaking Factors

Peaking factors are used to allocate costs associated with certain functions between the Base Delivery and Extra Capacity cost components. Table 4-4 shows the system-wide peaking factors used to develop this cost component allocation basis. Base demand represents average daily demand during the year, which is normalized to a factor of 1.00 (Column A, Line 1). SFPUC staff provided maximum day deliveries each year for the last five calendar years (2018-2022). The system-wide Max Day peaking factor (Column A, Line 2) represents the average of the ratio of maximum day demand to average day demand each year over the last five calendar years. Costs allocated on a "Max Day" basis in the next section are distributed to the Base Delivery and Extra Capacity cost components based on the percentages shown in Columns B and C of Line 2. These percentages are calculated based on the following equations. Columns are represented in these equations as letters and rows are represented as numbers. For example, Column C, Line 2 is shown as C2.

Base Delivery:
$$B2 = A1 \div A2 \times 100\%$$

$$\mathit{Max}\ \mathit{Day} \colon \mathit{C2} = 100\% - \mathit{B2}$$

Table 4-4: Water System Peaking Factors

		(A)	(B)	(C)	(D)
		Systemwide Peaking	Base	Extra	
Line	Description	Factor	Delivery	Capacity	Total
Line 1	Description Base	Factor 1.00	Delivery 100.0%	Capacity	Total 100.0%

Preliminary Allocation of Revenue Requirement to Cost Components

Table 4-5 shows the allocation of each function to the various cost components on a percentage basis in Lines 1-17. Many functions are fully allocated to a single cost component that clearly corresponds. However, other functions are allocated to cost components on the following bases that require further explanation:

- » The Alternative Water Supply, Groundwater, and Recycled Water functions are allocated fully to the Base Delivery (distribution) cost component rather than the Raw Water Supply cost component because these functions do not benefit non-potable customers (who are subject to Raw Water Supply but not Base Delivery costs).
- » The Water Conservation function is allocated fully to the Extra Capacity cost component because conservation efforts are primarily aimed at reducing peak demand rather than average day demand.
- The Pumping, Transmission, Distribution, Storage, and Treatment functions are all allocated on a "Max Day" basis to the Base Delivery and Extra Capacity cost components based on the systemwide peaking factors shown in Table 4-4. This is because infrastructure associated with these functions is typically sized to meet maximum day water demand conditions. Therefore, associated costs are most appropriately allocated between the Base Delivery and Extra Capacity cost components based on ratio of peak to average demand.
- » The Water Quality function is allocated fully to the Base Delivery cost component, as water quality testing costs typically do not vary per unit of potable water delivered.
- » The Hydrants/AWSS function is allocated to the Meters cost component to ensure that all water system users support fire protection provided by hydrants.

Table 4-5 also shows the allocation of the functionalized rate revenue requirement (from Table 4-3) to each cost component in Lines 19-37 based on the percentage allocations for each function in Lines 1-17. Costs allocated to the Indirect – General cost component are proportionally reallocated to all other cost components (except Revenue Offsets) in Lines 39-41. The Indirect – General cost reallocations in Line 41 are added to the initial cost component allocations in Line 37 to determine the preliminary allocation of the retail water rate revenue requirement to each cost component in Line 43. This preliminary allocation is subject to adjustments in the following section.

Table 4-5: Preliminary Allocation of FY 2024 Retail Water Rate Revenue Requirement to Cost Components

		Cost Components								
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
		Raw Water			Customer		Private Fire	Indirect -	Revenue	
Line	Functions	Supply	Base Delivery	Extra Capacity	Service	Meters	Service	General	Offsets	Total
1	Functional Allocations to Cost Components (%)									
2	Surface Water Supply	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
3	Alternative Water Supply	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
4	Groundwater	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
5	Recycled Water	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
6	Water Conservation	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
7	Pumping	0.00%	75.70%	24.30%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
8	Transmission	0.00%	75.70%	24.30%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
9	Distribution	0.00%	75.70%	24.30%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
10	Storage	0.00%	75.70%	24.30%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
11	Treatment	0.00%	75.70%	24.30%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
12	Water Quality	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
13	Meters	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
14	Hydrants / AWSS	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
15	Private Fire Service	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%
16	Customer Service	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%
16	Indirect - General	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%
17	Revenue Offsets	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
18										
19	Functional Allocations to Cost Components (\$)									
20	Surface Water Supply	\$73,071,935	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$73,071,935
21	Alternative Water Supply	\$0	\$2,437,496	\$0	\$0	\$0	\$0	\$0	\$0	\$2,437,496
22	Groundwater	\$0	\$5,912,222	\$0	\$0	\$0	\$0	\$0	\$0	\$5,912,222
23	Recycled Water	\$0	\$7,989,879	\$0	\$0	\$0	\$0	\$0	\$0	\$7,989,879
24	Water Conservation	\$0	\$0	\$11,341,074	\$0	\$0	\$0	\$0	\$0	\$11,341,074
25	Pumping	\$0	\$10,785,554	\$3,461,323	\$0	\$0	\$0	\$0	\$0	\$14,246,877
26	Transmission	\$0	\$52,253,940	\$16,769,446	\$0	\$0	\$0	\$0	\$0	\$69,023,385
27	Distribution	\$0	\$33,583,135	\$10,777,571	\$0	\$0	\$0	\$0	\$0	\$44,360,706
28	Storage	\$0	\$12,511,539	\$4,015,230	\$0	\$0	\$0	\$0	\$0	\$16,526,769
29	Treatment	\$0	\$42,934,538	\$13,778,643	\$0	\$0	\$0	\$0	\$0	\$56,713,182
30	Water Quality	\$0	\$35,531,727	\$0	\$0	\$0	\$0	\$0	\$0	\$35,531,727
31	Meters	\$0	\$0	\$0	\$0	\$12,683,934	\$0	\$0	\$0	\$12,683,934
32	Hydrants / AWSS	\$0	\$0	\$0	\$0	\$13,890,792	\$0	\$0	\$0	\$13,890,792
33	Private Fire Service	\$0	\$0	\$0	\$0	\$0	\$66,678	\$0	\$0	\$66,678
34	Customer Service	\$0	\$0	\$0	\$17,593,763	\$0	\$0	\$0	\$0	\$17,593,763
35	Indirect - General	\$0	\$0	\$0	\$0	\$0	\$0	(\$21,883,764)	\$0	(\$21,883,764)
36	Revenue Offsets	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$20,796,377)	(\$20,796,377)
37	Total	\$73,071,935	\$203,940,032	\$60,143,287	\$17,593,763	\$26,574,727	\$66,678	(\$21,883,764)	(\$20,796,377)	\$338,710,281
38		1.1,1.1,100	,_,,,,,,,,,,	,	,,.	+,,	400,070	(+2.,000,.04)	(,,)	,,-01
39	Preliminary Cost of Service Allocation									
40	Indirect - General Cost Reallocation (%)	19.16%	53.47%	15.77%	4.61%	6.97%	0.02%	N/A	N/A	100.00%
41	Indirect - General Cost Reallocation (\$)	(\$4,192,787)	(\$11,701,855)	(\$3,450,956)	(\$1,009,511)	(\$1,524,829)	(\$3,826)	\$21,883,764	\$0	\$0
42	(4)	(4.,.52,.01)	(\$,. 5 .,500)	(40, .00,000)	(4.,000,011)	(\$.,02 .,020)	(40,020)	,000,.01	ΨΟ	40
43	Preliminary Cost of Service (\$)	\$68,879,148	\$192,238,177	\$56,692,331	\$16,584,252	\$25,049,898	\$62,852	\$0	(\$20,796,377)	\$338,710,281
44	Preliminary Cost of Service (%)	20.34%	56.76%	16.74%	4.90%	7.40%	0.02%	0.00%	-6.14%	100.00%
• • •		20.04/0	00.7070	10.17/0	7.00/0	1.70/0	0.02 /0	0.00 /0	-V. 1-7/0	100.00/0

Units of Service

FY 2024 units of service must be determined to calculate adjustments to the preliminary cost component allocations and to develop unit costs. The development of units of service is shown in Table 4-6 through Table 4-8 on the following pages. Units of service associated with Treasure Island, Non-Paying Municipal, Recycled Water, Upcountry/Hetch Hetchy, and Wholesale customers are excluded, as the COS analysis only pertains to customers subject to the proposed retail water rates developed within the study scope.

Meters and Equivalent Meter Units

Table 4-6 shows the number of water meters and equivalent meter units associated with each customer class. Equivalent meter units are necessary to apportion meter-related costs by meter size, as larger meters can impose greater demands on the system and are more expensive to install, maintain, and replace than smaller meters. Meter capacity ratios (Column A, Lines 17-28) are first calculated by dividing meter capacity (Column A, Lines 2-13) by 20 gallons per minute (gpm), which is the safe maximum flow through a standard 5/8-inch meter. Meter capacity ratios are then multiplied by the number of water meters at each meter size to determine equivalent meters units (Columns B-H, Lines 17-28). Equivalent meters in this study are based on AWWA-rated safe operating capacities and are calculated to represent the potential demand on the water system relative to the base 5/8-inch meter size.

Fire Connections and Equivalent Fire Demand Units

Table 4-7 shows the calculation of equivalent (or potential) fire demand associated with fire hydrants and private fire service connections. Each connection size has a fire flow demand factor similar to the meter capacity ratio of a water meter. The diameter of the connection (in inches) is raised to the power of 2.63 (per the Hazen-Williams equation and AWWA M1 Manual) to determine the fire demand factor (Column A). The fire flow demand factor is multiplied by the number of connections by size (Column B) to calculate equivalent fire demand units (Column C). Total equivalent fire demand is shown for fire hydrants and private fire service connections in Lines 3 and 15 respectively.

Water Use and Max Day Extra Capacity

Table 4-8 shows FY 2024 water use in CCF by customer class and the calculation of Max Day Extra Capacity requirements in CCF per day. Max Day extra capacity requirements are used to allocate Extra Capacity costs based on customer class-specific water use patterns during peak demand periods. Average daily water use (Column C) is simply annual water use (Column B) divided by 365 days. Max Month factors (Column D) represent the ratio of maximum month water use to average month water use for each customer class/tier in FY 2019. Max Day factors (Column E) represent the ratio of maximum day water use to average day water use and are estimated by multiplying the Max Month factor for each customer class/tier (Column D) by the ratio of the systemwide Max Day factor (1.32 per Table 4-4) to systemwide Max Month factor (estimated at 1.10). Max Day capacity (Column F) is equal to average daily water use (Column C) multiplied by the Max Day factor (Column F). Max Day Extra Capacity (Column G) equals Max Day capacity (Column F) less average daily water use (Column C). Note that the Max Day Extra Capacity calculations pertain to the potable water system only. Therefore, no Max Day Extra Capacity requirements are attributed to non-potable water use.

¹¹ Max Month factors were evaluated for FY 2019 and FY 2022. FY 2019 factors were used due to anomalous impacts of COVID-19 on water use patterns in FY 2022. FY 2019 was determined to be the most representative recent year of water use data.

Table 4-6: Number of Water Meters and Equivalent Meter Units (In-City and Suburban Retail Only)

		(A)	(B)	(C) Multiple-	(D) Commercial/	(E)	(F)	(G)	(H)	(1)
		Meter	Single Family	Family	Industrial/		Docks &	Builders &		
Line	Meter Size	Capacity	Residential	Residential	Municipal	Irrigation	Shipping	Contractors	Non-Potable	Total
1	Water Meters	(gpm)								
2	5/8 inch	20	99,537	16,605	9,494	356	0	0	0	125,992
3	3/4 inch	30	9,300	7,730	1,146	166	0	0	-	18,342
4	1-inch	50	2,138	7,251	1,803	378	0	124	0	11,694
5	1-1/2 inch	100	531	3,164	1,568	219	11	0	0	5,493
6	2-inch	160	425	3,416	3,004	608	0	0	0	7,453
7	3-inch	320	0	232	193	10	16	226	0	677
8	4-inch	500	2	218	225	14	0	0	0	459
9	6-inch	1,000	0	79	173	11	0	0	2	265
10	8-inch	1,600	0	2	13	1	0	0	0	16
11	10-inch	2,500	0	0	8	0	0	0	0	8
12	12-inch	4,300	0	0	0	0	0	0	0	0
13	16-inch	7,500	0	0	1	0	0	0	0	1
14	Total		111,933	38,697	17,628	1,763	27	350	2	170,400
15										
16	Equivalent Meter Units	(Ratio)								
17	5/8 inch	1.00	99,537	16,605	9,494	356	0	0	0	125,992
18	3/4 inch	1.50	13,950	11,595	1,719	249	0	0	0	27,513
19	1-inch	2.50	5,345	18,128	4,508	945	0	310	0	29,235
20	1-1/2 inch	5.00	2,655	15,820	7,840	1,095	55	0	0	27,465
21	2-inch	8.00	3,400	27,328	24,032	4,864	0	0	0	59,624
22	3-inch	16.00	0	3,712	3,088	160	256	3,616	0	10,832
23	4-inch	25.00	50	5,450	5,625	350	0	0	0	11,475
24	6-inch	50.00	0	3,950	8,650	550	0	0	100	13,250
25	8-inch	80.00	0	160	1,040	80	0	0	0	1,280
26	10-inch	125.00	0	0	1,000	0	0	0	0	1,000
27	12-inch	215.00	0	0	0	0	0	0	0	0
28	16-inch	375.00	0	0	375	0	0	0	0	375
29	Total		124,937	102,748	67,371	8,649	311	3,926	100	308,041

^{*}Excludes Treasure Island, Non-Paying Municipal, Recycled Water, Upcountry/Hetch Hetchy, & Wholesale Water Meters

Table 4-7: Number of Fire Protection Connections and Equivalent Fire Demand Units

		(A)	(B)	(C)	(D)
		Fire Demand	Number of	Equivalent Fire	Equivalent Fire
Line	Connection Size	Factor	Connections	Demand Units	Demand (%)
1	Fire Hydrants				
2	6-inch	111.31	8,721	970,743	64.62%
3	Subtotal		8,721	970,743	64.62%
4					
5	Private Fire Services				
6	1-inch	1.00	186	186	0.01%
7	1-1/2 inch	2.90	33	96	0.01%
8	2-inch	6.19	3,902	24,154	1.61%
9	3-inch	17.98	155	2,787	0.19%
10	4-inch	38.32	3,476	133,198	8.87%
11	6-inch	111.31	1,641	182,661	12.16%
12	8-inch	237.21	715	169,603	11.29%
13	10-inch	426.58	7	2,986	0.20%
14	12-inch	689.04	23	15,848	1.05%
15	Subtotal		10,138	531,519	35.38%
16					
17	Total		18,859	1,502,262	100.00%



Table 4-8: FY 2024 Water Use and Max Day Extra Capacity Requirements

		(A) FY 2024	(B)	(C)	(D)	(E)	(F)	(G)
		Projected		Average Daily			Max Day	Max Day Extra
Lino	Customer Class	Water Use (CCF)	COS Analysis (CCF)	Water Use (CCF/Day)	Max Month Factor	Max Day Factor	Capacity (CCF/Day)	Capacity (CCF/Day)
1	Single Family Residential	(001)	(001)	(CCI /Day)	I actor	i actor	(CCI /Day)	(CCI /Day)
2	First 4 Units per Month	3,913,645	3,913,645	10,722	1.03	1.24	13,252	2,530
3	All Additional Units	2,362,176	2,362,176	6,472	1.20	1.44	9,323	2,851
4	Subtotal	6,275,820	6,275,820	ACCOUNT OF THE PARTY OF THE PAR	1.20		22,575	5,381
5		0,2: 0,020	5,2. 5,525	,			,0.0	0,001
6	Multiple-Family Residential							
7	First 3 Units per Dwelling Unit per Month	6,760,988	6,760,988	18,523	1.01	1.21	22,432	3,909
8	All Additional Units	3,809,265	3,809,265	10,436	1.12	1.35	14,039	3,602
9	Subtotal	10,570,253	10,570,253	28,960			36,471	7,511
10								
11	Non-Residential							
12	Commercial/Industrial/Municipal	8,549,050	8,549,050	23,422	1.15	1.38	32,279	8,857
13	Irrigation	1,120,003	1,120,003	3,069	1.15	1.38	4,229	1,160
14	Docks & Shipping	3,925	3,925	11	1.15	1.38	15	4
15	Builders & Contractors	98,610	98,610	270	1.15	1.38	372	102
16	Fire Service	31,006	31,006	85	1.15	1.38	117	32
17	Non-Potable	155,358	155,358	426	N/A	N/A	N/A	N/A
18	Excluded from COS*	62,993,071	N/A	N/A	N/A	N/A	N/A	N/A
19	Subtotal	72,951,025	9,957,954	27,282			37,012	10,156
20								
21	Total	89,797,098	26,804,027	73,436			96,058	23,048

^{*}Treasure Island, Non-Paying Municipal, Recycled Water, Upcountry/Hetch Hetchy, Wholesale, and Suburban Contract Rate water use

Fire Protection Extra Capacity Analysis

Fire hydrants and private fire service connections are allocated a portion of Extra Capacity costs. Table 4-9 and the formula below show the methodology (per the AWWA M1 Manual) used to calculate Max Day Extra Capacity associated with fire protection. The calculations are based on assumptions regarding the duration and flow rate in gallons per minute (gpm) associated with representative fires for which the system is designed to provide capacity:

Max Day Requirements (CCF/day) = Duration of Fire (hrs) \times Water Use Rate (gpm) \times 60 mins/hr \div 748.05 gallons/CCF

(A) (B) (C) Max Day Extra **Duration of Fire** Water Use Rate Capacity Line **Fire Protection Extra Capacity** (Hours) (gpm) (CCF/Day) 1,283 Representative Fire #1 4 4,000 1

3

3,000

Table 4-9: Fire Protection Extra Capacity Requirements

Representative Fire #2 3 **Total Fire Protection Peaking Requirements**

2

2,005

722

Table 4-10 shows the allocation basis used to distribute Extra Capacity costs among retail water use not used for fire protection, fire hydrants, and private fire service based on the proportion of Max Day Extra Capacity requirements in CCF per Day. Max Day Extra Capacity for retail water use not used for fire protection (Column A, Line 1) was calculated previously in Table 4-8. Total Max Day Extra Capacity attributable to fire protection (from Table 4-9) is distributed between fire hydrants (Column A, Line 2) and private fire service connections (Column A, Line 3) based on the proportion of equivalent fire demand units associated with each (from Table 4-7, Column D, Line 3 and Line 15). The percentage of Max Day Extra Capacity attributed to each category provides the Extra Capacity cost allocation basis in Column B.

Table 4-10: Max Day Extra Capacity Cost Allocation

		(A)	(B)
		Max Day Extra	
		Capacity	Extra Capacity
Line	Max Day Extra Capacity	(CCF/Day)	Cost Allocation
1	Retail (Non-Fire Protection)	23,048	92.00%
2	Fire Hydrants	1,296	5.17%
3	Private Fire Services	709	2.83%
4	Total	25,053	100.00%

Final Adjusted Allocation of Revenue Requirement to Cost Components

Table 4-11 shows the final adjusted allocation of the retail water rate revenue requirement to the various cost components. The final adjusted allocation to each cost component in Line 5 ultimately provides the basis for FY 2024 rate calculations shown in the following sections. The final adjusted COS allocations in Line 5 equal the sum of the components shown in Lines 1-4, which are described in further detail below:

- 1. **Preliminary Cost of Service Allocation** (Line 1): The preliminary allocations to each cost component were previously developed in Table 4-5. The Indirect General cost component is excluded because all General costs were previously reallocated to other cost components.
- 2. **Reallocation of Fire Hydrant Extra Capacity to Meters** (Line 2): Extra Capacity costs associated with providing fire flow for fire hydrants are reallocated to the Meters cost component to recover hydrant-related fire protection costs from metered connections. Approximately 5.17% of Extra Capacity costs are reallocated to the Meters cost component (per Table 4-10, Column B, Line 2). Note that this reallocation results in a shifting of costs between cost components but does not change the total rate revenue requirement.
- 3. Reallocation of Private Fire Extra Capacity to Private Fire Service (Line 3): Extra Capacity costs associated with providing fire flow for private fire protection are reallocated to the Private Fire Service cost component to recover the associated costs from customers with dedicated private fire service connections. Approximately 2.83% of Extra Capacity costs are reallocated to the Private Fire Service cost component (per Table 4-10, Column B, Line 3). Note that this reallocation results in a shifting of costs between cost components but does not change the total rate revenue requirement.
- 4. Reallocation of Extra Capacity to Meters (Line 4): It is a common practice for public water utilities in California to recover a portion of Extra Capacity costs from fixed charges to improve revenue stability. Approximately \$5.2 million of the Extra Capacity cost component is being allocated to the Meters cost component. Public water utilities in California typically recover approximately 20-25% of rate revenues from fixed charges, compared to the SFPUC which is projected to recover approximately 15% of retail water rate revenues from fixed charges. The allocation of Extra Capacity costs to the Meters cost component will provide a degree of revenue stability without adversely affecting customer affordability (as higher fixed charges tend to disproportionately impact bills for low use residential customers).

Table 4-11: Final Adjusted Allocation of FY 2024 Retail Water Rate Revenue Requirement to Cost Components

			Cost Components						
		(A) Raw Water	(B)	(C)	(D) Customer	(E)	(F) Fire	(G) Revenue	(H)
Line	Final Adjusted Cost of Service Allocation	Supply	Base Delivery E	xtra Capacity	Service	Meters	Sprinklers	Offsets	Total
1	Preliminary Cost of Service	\$68,879,148	\$192,238,177	\$56,692,331	\$16,584,252	\$25,049,898	\$62,852	(\$20,796,377)	\$338,710,281
2	Extra Capacity Reallocation to Hydrants	\$0	\$0	(\$2,932,140)	\$0	\$2,932,140	\$0	\$0	\$0
3	Extra Capacity Reallocation to Private Fire Service	\$0	\$0	(\$1,605,461)	\$0	\$0	\$1,605,461	\$0	\$0
4	Extra Capacity Reallocation to Meters	\$0	\$0	(\$5,215,473)	\$0	\$5,215,473	\$0	\$0	\$0
5	Final Adjusted Cost of Service (\$)	\$68,879,148	\$192,238,177	\$46,939,258	\$16,584,252	\$33,197,511	\$1,668,313	(\$20,796,377)	\$338,710,281
6	Final Adjusted Cost of Service (%)	20.34%	56.76%	13.86%	4.90%	9.80%	0.49%	-6.14%	100.00%



4.5. Water Unit Cost Development

The next step of the COS analysis is to calculate unit costs for each cost component, which are used in the final step of the COS analysis to distribute the retail water rate revenue requirement to each customer class. Table 4-12 shows the development of unit costs for each cost component, which are calculated by dividing the final adjusted COS allocation in Line 14 (from Table 4-11) by the total units of service in Line 10 (from Table 4-6 through Table 4-8). Units of service associated with Treasure Island, Non-Paying Municipal, Recycled water, Upcountry/Hetch Hetchy, and Wholesale customers are excluded from the unit cost calculations, as the COS analysis only pertains to customers subject to the proposed retail water rates developed within the scope of this study. The units of service applied to each cost component are as follows:

- » Raw Water Supply Units of Service: total retail water use in CCF
- » **Base Delivery**: total retail water use in CCF (excluding non-potable)
- » Extra Capacity: total Max Day Extra Capacity in CCF per day associated with retail water use not used for fire protection
- » **Customer Service**: total number of annual bills, estimated by multiplying total retail water connections (including private fire service connections) by 12 monthly billing periods per year
- » Meters: total number of equivalent meter units multiplied by 12 monthly billing periods per year
- » **Private Fire Service**: total number of equivalent fire demand units associated with private fire service connections multiplied by 12 monthly billing periods per year
- » Revenue Offsets: total retail water use in CCF

Table 4-12: FY 2024 Unit Costs

Line	Description	(A) Raw Water Supply	(B) Base Delivery	(C) Extra Capacity	(D) Customer Service	(E) Meters	(F) Private Fire Service	(G) Revenue Offsets
1	Units of Service by Customer Class							
2	Single Family Residential	6,275,820	6,275,820	5,381	1,343,196	1,499,244	N/A	6,275,820
3	Multiple-Family Residential	10,570,253	10,570,253	7,511	464,364	1,232,970	N/A	10,570,253
4	Commercial/Industrial/Municipal	8,549,050	8,549,050	8,857	211,536	808,446	N/A	8,549,050
5	Irrigation	1,120,003	1,120,003	1,160	21,156	103,788	N/A	1,120,003
6	Docks & Shipping	3,925	3,925	4	324	3,732	N/A	3,925
7	Builders & Contractors	98,610	98,610	102	4,200	47,112	N/A	98,610
8	Private Fire Service	31,006	31,006	32	121,656	N/A	6,378,232	31,006
9	Non-Potable	155,358	N/A	N/A	24	1,200	N/A	155,358
10	Total Units of Service	26,804,027	26,648,669	23,048	2,166,456	3,696,492	6,378,232	26,804,027
11 12	Unit Descriptions	Water Use (CCF)	Potable Water Use (CCF)	Max Day Extra Capacity (CCF/Day)	Annualized Bills	Annualized Equivalent Meter Units	Annualized Equivalent Fire Demand Units	Water Use (CCF)
13 14 15	Final Adjusted Cost of Service	\$68,879,148	\$192,238,177	\$46,939,258	\$16,584,252	\$33,197,511	\$1,668,313	(\$20,796,377)
16	Unit Cost	\$2.570	\$7.214	\$2,036.611	\$7.655	\$8.981	\$0.262	(\$0.776)

4.6. Water Customer Class Revenue Requirements

Table 4-13 shows the distribution of the total FY 2024 retail water rate revenue requirement to each customer class under the proposed COS (Column A). Costs were distributed to each customer class by multiplying the unit costs for each cost component by the corresponding units of service associated with each customer class (from Table 4-12). The current COS in Column B represents the amount of revenue each customer class is projected to generate in FY 2024 based on existing water rates. The difference between the total proposed COS (Column A, Line 9) and current COS (Column B, Line 9) is the proposed 5% revenue adjustment in FY 2024. Note that retail water revenue from contract rates and Drought Surcharges is excluded from Table 4-13.

Columns C-E provide a comparison of the proposed versus current COS in percentage terms. Most customer classes experience a relatively minor distributional impact from the proposed COS allocations. Private fire service customers' cost allocation decreases largely due to the refinement of the methodology used to allocate fire-related extra capacity costs relative to the prior cost of service study in 2018. Non-potable customers' cost allocation increases primarily because the updated O&M expense functionalization allocates more costs to the Surface Water Supply function relative to the prior study.

Table 4-13: Comparison of Proposed vs. Current Cost of Service (FY 2024)

		\$ Comparison		% Comparison		
		(A) Proposed Cost of	(B) Current Cost of	(C) Proposed Cost of	(D) Current Cost of	(E)
Line	Customer Class	Service (\$)	Service (\$)	Service (%)	Service (%)	Change (%)
1	Single Family Residential	\$91,236,228	\$84,575,700	26.94%	26.27%	2.53%
2	Multiple-Family Residential	\$125,138,244	\$119,486,099	36.95%	37.12%	-0.46%
_					-	
3	Commercial/Industrial/Municipal	\$103,924,835	\$98,487,157	30.68%	30.59%	0.29%
4	Irrigation	\$13,545,814	\$12,840,998	4.00%	3.99%	0.26%
5	Docks & Shipping	\$79,631	\$75,358	0.02%	0.02%	0.44%
6	Builders & Contractors	\$1,551,568	\$1,469,665	0.46%	0.46%	0.34%
7	Private Fire Service	\$2,944,309	\$4,841,198	0.87%	1.50%	-42.19%
8	Non-Potable	\$289,652	\$157,974	0.09%	0.05%	74.27%
9	Total	\$338,710,281	\$321,934,148	100.00%	100.00%	0.00%

5. Water Rate Design

5.1. Water Rate Design Overview

This section details the proposed retail water rate calculations. FY 2024 proposed rates are calculated directly from the unit costs developed in the COS analysis. Proposed and projected rates in FY 2025-FY 2028 are calculated by increasing proposed FY 2024 rates by the annual revenue adjustments from the proposed financial plan. SFPUC staff and Raftelis evaluated the need to modify the existing rate structure but determined that no changes will be proposed as part of this study. Raftelis also analyzed residential water use data to ensure that the existing residential tier allotments (four units per month for Single Family Residential and three units per month per dwelling unit for Multiple-Family Residential) are reasonable. The proposed rates shown are consistent with the SFPUC's existing retail water rate structure. Note also that no changes to the existing system of Drought Surcharges are recommended as part of this study.

Table 5-1 indicates which cost components are collected by each charge type to develop proposed retail water rates in FY 2024. Fixed Monthly Service Charges are designed to recover a share of Customer Service costs and all Meters costs. Private Fire Fixed Monthly Service Charges are designed to recover a share of Customer Service costs and all Private Fire Service costs. Variable Charges are designed to recover all remaining cost components, including Raw Water Supply, Base Delivery, Extra Capacity, and Revenue Offsets. Note that Untreated Water Variable Charges are exempted from Base Delivery and Extra Capacity costs, which only pertain to the potable water system.

Table 5-1: Revenue Recovery by Charge Type

Line	Cost Component	Associated Charge
1	Raw Water Supply	Variable Charges
2	Base Delivery	Variable Charges (excluding Untreated Water)
3	Extra Capacity	Variable Charges (excluding Untreated Water)
4	Customer Service	Fixed Monthly Service Charges; Private Fire Fixed Monthly Service Charges
5	Meters	Fixed Monthly Service Charges
6	Private Fire Service	Private Fire Fixed Monthly Service Charges
7	Revenue Offsets	Variable Charges

5.2. Water Rate Calculations

Proposed FY 2024 Fixed Monthly Service Charge Calculation

Fixed Monthly Service Charges are designed to recover costs associated with the Customer Service and Meters cost components. The Meters cost component includes costs to repair or replace meters and include a portion of Extra Capacity costs as allocated in Table 4-11. Table 5-2 shows the detailed calculation of Fixed Monthly Service Charges in FY 2024 based on Customer Service and Meters unit costs (from Table 4-12). Customer Service costs do not vary by meter size. Therefore, the Customer Service unit cost is applied uniformly to all proposed charges regardless of meter size (Column B). Because Meters costs vary by meter size based on meter capacity, AWWA capacity ratios in Column A (from Table 4-6) are used to differentiate Meters charges by meter size. The Meters charges (Column C) are calculated by multiplying the Meters unit cost (from Table 4-12) by the corresponding meter capacity ratio (Column A). Proposed charges (Column D) equal the sum of Columns B-C, and are compared to current FY 2023 charges in Columns E-F.

Table 5-2: Proposed FY 2024 Fixed Monthly Service Charge Calculation

		(A) Meter	(B)	(C)	(D) Proposed	(E) Current	(F)
		Capacity	Customer		Charge	Charge Charge	
Line	Meter Size	Ratio	Service	Meters	(FY 2024)	(FY 2023)	(\$)
1	5/8 inch	1.00	\$7.655	\$8.981	\$16.64	\$15.17	\$1.47
2	3/4 inch	1.50	\$7.655	\$13.471	\$21.13	\$19.43	\$1.70
3	1-inch	2.50	\$7.655	\$22.452	\$30.11	\$27.95	\$2.16
4	1-1/2 inch	5.00	\$7.655	\$44.904	\$52.56	\$49.25	\$3.31
5	2-inch	8.00	\$7.655	\$71.847	\$79.51	\$74.81	\$4.70
6	3-inch	16.00	\$7.655	\$143.693	\$151.35	\$142.97	\$8.38
7	4-inch	25.00	\$7.655	\$224.520	\$232.18	\$219.65	\$12.53
8	6-inch	50.00	\$7.655	\$449.041	\$456.70	\$432.65	\$24.05
9	8-inch	80.00	\$7.655	\$718.465	\$726.13	\$688.25	\$37.88
10	10-inch	125.00	\$7.655	\$1,122.602	\$1,130.26	\$1,071.65	\$58.61
11	12-inch	215.00	\$7.655	\$1,930.875	\$1,938.54	\$1,838.45	\$100.09
12	16-inch	375.00	\$7.655	\$3,367.806	\$3,375.47	\$3,201.65	\$173.82

\$1,668,313

Total

Proposed FY 2024 Private Fire Fixed Monthly Service Charge Calculation

Private Fire Fixed Monthly Service Charges are designed to recover costs associated with the Customer Service and Private Fire Service cost components. A Private Fire Service unit cost was calculated previously in Table 4-12, but is further refined into two components in Table 5-3 below. Private Fire Service costs associated with backflow administration do not vary based on service size, as do all other Private Fire Service costs associated with Extra Capacity. Therefore, a "Backflow Administration" unit cost is calculated (Column C, Line 1) by dividing direct backflow administration costs (Column A, Line 1) by annualized private fire service connections (Column B, Line 1). All remaining Private Fire Service costs (Column A, Line 2) are divided by annualized equivalent fire demand units associated with private fire service connections (Column B, Line 2) to determine a "Private Fire Extra Capacity" unit cost (Column C, Line 2).

(B) (C) (D) FY 2024 cos Units of Private Fire Service Line Cost Component **Allocation** Service Unit Cost Unit Description Backflow Administration \$62.852 121.656 \$0.517 Annualized Private Fire Service Connections Private Fire Extra Capacity \$1,605,461 6,378,232 \$0.252 Annualized Private Fire Service Equivalent Fire Demand Units

Table 5-3: Private Fire Service Unit Cost Differentiation

Table 5-4 shows the detailed calculation of Private Fire Fixed Monthly Service Charges in FY 2024 based on Customer Service, Backflow Administration, and Private Fire Extra Capacity unit costs. Customer Service and Backflow Administration costs do not vary by service size. Therefore, Customer Service unit costs (from Table 4-12) and Backflow Administration unit costs (from Table 5-3) are applied uniformly to all proposed charges regardless of service size (Columns B-C). Because Private Fire Extra Capacity costs vary by service size based on equivalent fire demand, fire demand factors in Column A (from Table 4-7) are used to differentiate Private Fire Extra Capacity charges by service size. The Private Fire Extra Capacity charges (Column D) are calculated by multiplying the Private Fire Extra Capacity unit cost (from Table 5-3) by the corresponding fire demand factor (Column A). Proposed charges (Column E) equal the sum of Columns B-D, and are compared to current FY 2023 charges in Columns F-G.

Table 5-4: Proposed FY 2024 Private Fire Fixed Monthly Service Charge Calculation

		(A) Fire	(B)	(C) Backflow	(D) Private Fire	(E) Proposed	(F) Current	(G)
	Connection	Demand	Customer	Adminis-	Extra	Charge	Charge	Difference
Line	Size	Factor	Service	tration	Capacity	(FY 2024)	(FY 2023)	(\$)
1	1-inch	1.00	\$7.655	\$0.517	\$0.252	\$8.43	\$9.55	(\$1.12)
2	1-1/2 inch	2.90	\$7.655	\$0.517	\$0.731	\$8.91	\$12.45	(\$3.54)
3	2-inch	6.19	\$7.655	\$0.517	\$1.558	\$9.73	\$15.93	(\$6.20)
4	3-inch	17.98	\$7.655	\$0.517	\$4.526	\$12.70	\$25.21	(\$12.51)
5	4-inch	38.32	\$7.655	\$0.517	\$9.645	\$17.82	\$35.65	(\$17.83)
6	6-inch	111.31	\$7.655	\$0.517	\$28.018	\$36.19	\$64.65	(\$28.46)
7	8-inch	237.21	\$7.655	\$0.517	\$59.707	\$67.88	\$99.45	(\$31.57)
8	10-inch	426.58	\$7.655	\$0.517	\$107.374	\$115.55	\$151.65	(\$36.10)
9	12-inch	689.04	\$7.655	\$0.517	\$173.439	\$181.62	\$256.05	(\$74.43)

17

18 19

Total

All Other Water Use

Proposed FY 2024 Variable Charge Calculation

Variable Charges are designed to recover costs associated with the Raw Water Supply, Base Delivery, Extra Capacity, and Revenue Offsets cost components. An Extra Capacity unit cost was calculated previously in Table 4-12, but is further refined into unique "unit rates" in Table 5-5 below. This provides a basis to differentiate potable Variable Charges by customer class and tier. Max Day Extra Capacity in CCF per day in Column B (from Table 4-8) is multiplied by the Extra Capacity unit cost per CCF per day in Column C (from Table 4-12) to determine the Extra Capacity cost allocation for each customer class and tier in Column D. The Extra Capacity cost allocation in Column D is then divided by FY 2024 water use in CCF in Column A to establish unique Extra Capacity unit rates for each customer class and tier in Column E.

(A) (B) (D) (C) (E) Extra Max Day Capacity Extra Extra FY 2024 Extra **Unit Cost** Capacity Capacity Capacity Water Use (per Cost **Unit Rate** Line Customer Class (CCF) (CCF/Day) CCF/Day) Allocation (\$/CCF) Single-Family Residential 2 First 4 Units per Month 3,913,645 \$2,036.611 \$5,152,051 \$1.316 2,530 3 All Additional Units 2,362,176 2,851 \$2,036.611 \$5,807,080 \$2.458 4 Subtotal 5,381 \$10,959,131 6,275,820 5 6 First 3 Units per Dwelling Unit per Month 6,760,988 3,909 \$2,036.611 \$7,960,475 \$1.177 7 All Additional Units 3,602 \$2,036.611 \$7,336,693 \$1.926 3,809,265 8 Subtotal 7,511 \$15,297,168 10,570,253 9 10 Commercial, Industrial, and General Uses* 11 For All Units of Water 9,802,596 10,156 \$2,036.611 \$20,682,959 \$2,110 12 13 **Untreated Water Service** N/A 14 For All Units of Water 155,358 N/A N/A N/A 15 16 Excluded from COS**

Table 5-5: Extra Capacity Unit Rate Calculation

N/A

23,048

N/A

N/A

\$46,939,258

N/A

62,993,071

89,797,098

Table 5-6 shows the detailed calculation of Variable Charges in FY 2024 based on Raw Water Supply, Base Delivery, and Revenue Offsets unit costs (from Table 4-12) and Extra Capacity unit rates (from Table 5-5) in Columns A-D. Proposed charges per CCF (Column E) equal the sum of Columns A-D, and are compared to current FY 2023 charges in Columns F-G. Potable water charges are differentiated based on Extra Capacity unit rates only, which reflect differences in peak water demand patterns between residential and non-residential customers. Untreated Water charges are exempt from Base Delivery and Extra Capacity costs, which only pertain to the potable water system.

^{*}Includes Commercial, Industrial, Municipal, Irrigation, Docks & Shipping, Builders & Contractors, & Fire Service water use **Includes Treasure Island, Non-Paying Municipal, Recycled Water, Upcountry/Hetch Hetch, & Wholesale water use

Table 5-6: Proposed FY 2024 Variable Charge Calculation

		(A)	(B)	(C)	(D)	(E) Proposed Charge per	(F) Current Charge per	(G)
Line	Customer Class	Raw Water Supply	Base Delivery	Extra Capacity	Revenue Offsets	CCF (FY 2024)	CCF (FY 2023)	Difference (\$)
1	Single-Family Residential	Cuppiy	Delivery	Gupacity	Olisets	(1 1 2024)	(1 1 2020)	(Ψ)
2	First 4 Units per Month	\$2.570	\$7.214	\$1.316	(\$0.776)	\$10.33	\$9.60	\$0.73
3	All Additional Units	\$2.570	\$7.214	\$2.458	(\$0.776)	\$11.47	\$10.71	\$0.76
4		·				•		
5	Multiple-Family Residential							
6	First 3 Units per Dwelling Unit per Month	\$2.570	\$7.214	\$1.177	(\$0.776)	\$10.19	\$9.60	\$0.59
7	All Additional Units	\$2.570	\$7.214	\$1.926	(\$0.776)	\$10.94	\$10.76	\$0.18
8								
9	Commercial, Industrial, and General Uses*							
10	For All Units of Water	\$2.570	\$7.214	\$2.110	(\$0.776)	\$11.12	\$10.55	\$0.57
11								
12	Untreated Water Service							
13	For All Units of Water	\$2.570	N/A	N/A	(\$0.776)	\$1.80	\$0.95	\$0.85

^{*}Includes Commercial, Industrial, Municipal, Irrigation, Docks & Shipping, Builders & Contractors, and Fire Service water use

Proposed Retail Water Rate Schedule (FY 2024 - FY 2028)

Table 5-7 shows current FY 2023 retail water rates and proposed/projected water rates for FY 2024 to FY 2028. Note that SFPUC staff is only recommending that the Commission consider adoption of three years of proposed rates through FY 2026. All rates shown beyond FY 2026 are projections for planning purposes only. Proposed FY 2024 rates were calculated in Table 5-2, Table 5-4, and Table 5-6. Proposed and projected rates in FY 2025-FY 2028 were calculated by increasing all proposed FY 2024 rates each year by the proposed and planned revenue adjustments in Table 3-13. All rates are proposed to become effective on July 1 of each fiscal year and are rounded up to the nearest cent to ensure adequate revenue recovery.



Table 5-7: Proposed and Projected Retail Water Rate Schedule (FY 2024 – FY 2028)

		(A) Current (since	(B) Proposed FY 2024	(C) Proposed FY 2025	(D) Proposed FY 2026	(E) Projected FY 2027	(F) Projected FY 2028
Line	Proposed Water Rate Schedule	7/1/2021)	(7/1/2023)	(7/1/2024)	(7/1/2025)	(7/1/2026)	(7/1/2027)
1	Fixed Monthly Service Charges (by Meter Size)						
2	5/8 inch	\$15.17	\$16.64	\$17.48	\$18.36	\$19.10	\$19.87
3	3/4 inch	\$19.43	\$21.13	\$22.19	\$23.30	\$24.24	\$25.21
4	1-inch	\$27.95	\$30.11	\$31.62	\$33.21	\$34.54	\$35.93
5	1-1/2 inch	\$49.25	\$52.56	\$55.19	\$57.95	\$60.27	\$62.69
6	2-inch	\$74.81	\$79.51	\$83.49	\$87.67	\$91.18	\$94.83
7	3-inch	\$142.97	\$151.35	\$158.92	\$166.87	\$173.55	\$180.50
8	4-inch	\$219.65	\$232.18	\$243.79	\$255.98	\$266.22	\$276.87
9	6-inch	\$432.65	\$456.70	\$479.54	\$503.52	\$523.67	\$544.62
10	8-inch	\$688.25	\$726.13	\$762.44	\$800.57	\$832.60	\$865.91
11	10-inch	\$1,071.65	\$1,130.26	\$1,186.78	\$1,246.12	\$1,295.97	\$1,347.81
12	12-inch	\$1,838.45	\$1,938.54	\$2,035.47	\$2,137.25	\$2,222.74	\$2,311.65
13	16-inch	\$3,201.65	\$3,375.47	\$3,544.25	\$3,721.47	\$3,870.33	\$4,025.15
14							
15	Private Fire Fixed Monthly Service Charges (by S						
16	1-inch	\$9.55	\$8.43	\$8.86	\$9.31	\$9.69	\$10.08
17	1-1/2 inch	\$12.45	\$8.91	\$9.36	\$9.83	\$10.23	\$10.64
18	2-inch	\$15.93	\$9.73	\$10.22	\$10.74	\$11.17	\$11.62
19	3-inch	\$25.21	\$12.70	\$13.34	\$14.01	\$14.58	\$15.17
20	4-inch	\$35.65	\$17.82	\$18.72	\$19.66	\$20.45	\$21.27
21	6-inch	\$64.65	\$36.19	\$38.00	\$39.90	\$41.50	\$43.16
22	8-inch	\$99.45	\$67.88	\$71.28	\$74.85	\$77.85	\$80.97
23	10-inch	\$151.65	\$115.55	\$121.33	\$127.40	\$132.50	\$137.80
24	12-inch	\$256.05	\$181.62	\$190.71	\$200.25	\$208.26	\$216.60
25							
26	Variable Charges (per CCF)						
27	Single-Family Residential						
28	First 4 Units per Month	\$9.60	\$10.33	\$10.85	\$11.40	\$11.86	\$12.34
29	All Additional Units	\$10.71	\$11.47	\$12.05	\$12.66	\$13.17	\$13.70
30							
31	Multiple-Family Residential						
32	First 3 Units per Dwelling Unit per Month	\$9.60	\$10.19	\$10.70	\$11.24	\$11.69	\$12.16
33	All Additional Units	\$10.76	\$10.94	\$11.49	\$12.07	\$12.56	\$13.07
34		,	•	•	•	,	•
35	Commercial, Industrial, and General Uses						
36	For All Units of Water	\$10.55	\$11.12	\$11.68	\$12.27	\$12.77	\$13.29
37		,	, –			, ,	
38	Untreated Water Service						
39	For All Units of Water	\$0.95	\$1.80	\$1.89	\$1.99	\$2.07	\$2.16

5.3. Water Customer Bill Impacts

Sample monthly water bill impacts are shown for single family residential customers in Figure 5-1, multiple-family residential customers in Figure 5-2, and non-residential customers in Figure 5-3. The bill impacts compare current FY 2023 monthly water bills with proposed FY 2024 monthly water bills at varying levels of monthly water use. These examples assume meter sizes of 5/8-inch for single family residential and non-residential customers. Multiple-family residential bills assume a one-inch meter and ten dwelling units. The varying levels of water use correspond to the 10th percentile, 25th percentile, median, 75th percentile, and 90th percentile of monthly water use for each customer class based on an analysis of FY 2022 account-level billing data. Note that all bills exclude Drought Surcharges to provide a direct comparison of current versus proposed rates, even though Drought Surcharges equal to 5% of Variable Charges were effective through April 2023 before being formally rescinded effective May 2023.

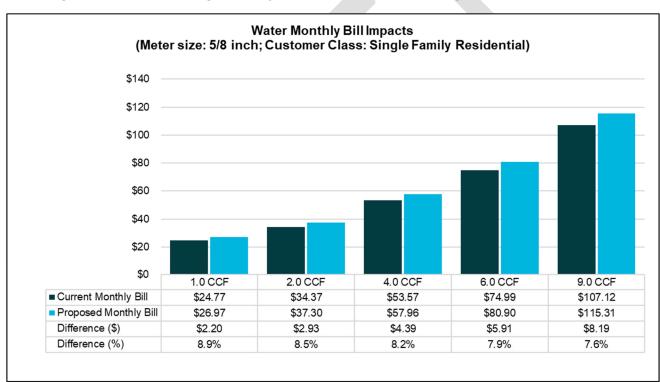


Figure 5-1: Sample Single Family Residential Water Monthly Bill Impacts (FY 2024)

Figure 5-2: Sample Multiple-Family Residential Water Monthly Bill Impacts (FY 2024)

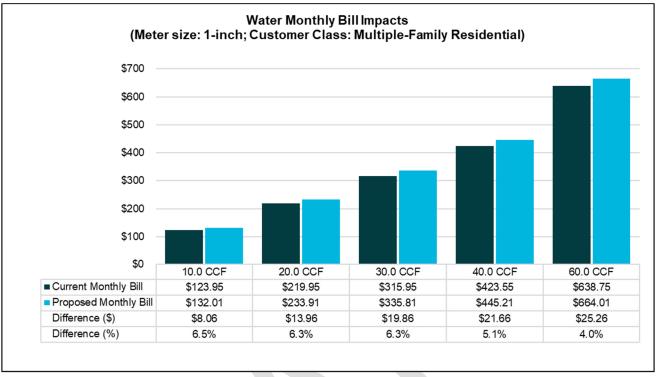
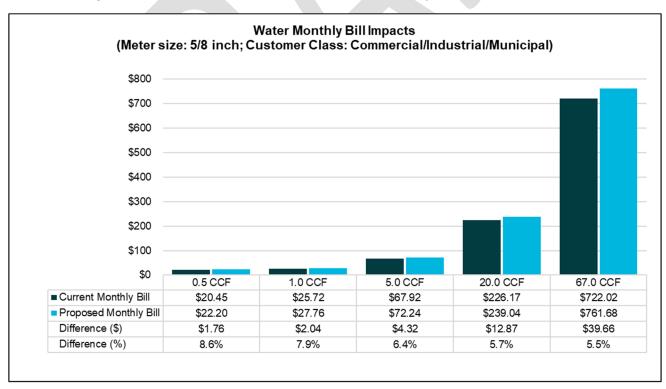


Figure 5-3: Sample Non-Residential Water Monthly Bill Impacts (FY 2024)



6. Wastewater Financial Plan

6.1. Overview of the Financial Planning Process

The primary goal of the financial planning process is to identify the total amount of retail wastewater rate revenue required on an annual basis to support the Wastewater Enterprise's financial needs. MME and Raftelis prepared a wastewater utility financial plan model in Microsoft Excel to project the SFPUC Wastewater Enterprise's revenues, expenses, cash flows, reserve balances, and debt coverage over the next ten fiscal years (through FY 2033). Note that the financial plan projections presented in the body of this report extend through the next five fiscal years (through FY 2028). However, graphical representations of the financial plan are presented for the period FY 2023 – FY 2033. Also note that the wastewater financial plan projections developed by MME and Raftelis for this study correspond to, and are aligned with, the SFPUC staff's own 10-Year Financial Plan where possible, which is updated on an annual basis as part of staff's ongoing financial management processes.

The critical steps in developing a wastewater utility financial plan include:

- <u>Understanding the Existing Rate Structure and Billing Methodology</u>: This initial step in the financial planning process lays the foundation for the development of a demand forecast and the projection of rate revenues at existing rates that accurately reflects customer usage characteristics and Wastewater Enterprise cost recovery procedures.
- **Projecting Wastewater Units of Service (Demand Forecast)**: The demand forecast projects the "units of service" subject to each rate/charge, including the number of wastewater service connections, volumetric wastewater discharges, and the strength loadings of the wastewater discharges. Projections are based on factors such as customer account growth, projected changes in customer water demand patterns, and associated wastewater discharges.
- **Projecting Wastewater Rate Revenues at Existing Rates**: This step in the financial planning process determines how much rate revenue will be generated annually if there are *no rate increases*. The level of rate revenues at existing rates is compared to projected expenditures to determine the annual funding shortfall that must be met by the appropriate combination of rate revenue increases or external debt financing.
- <u>Projecting Miscellaneous Non-Rate Revenue</u>: Miscellaneous non-rate revenue items can include interest income from cash reserves, grants, capacity fee receipts, and miscellaneous ancillary fees. Miscellaneous non-rate revenues assist in closing the annual funding shortfall and reduce the revenue requirement from rates (i.e., the level of amount of rate revenue that must be recovered from customers).
- <u>Projecting Operating and Maintenance Expenses and Existing Debt Service</u>: This step in the financial planning process projects the O&M expenses that will be incurred to provide utility service as well as required debt service payments on existing debt obligations.
- <u>Determining a Capital Financing Strategy</u>: In many utilities, the key driver of the annual funding shortfall is projected CIP expenditures. In this step in the financial planning process, the utility

determines the optimal mix of annual rate revenue increases and external debt financing to cover the funding shortfall. An outcome of this process is the identification of rate revenue funded CIP expenditures, required debt proceeds, and projected debt service costs.

- Identifying Cash Reserve and Debt Service Coverage Targets: Utilities must not only have sufficient revenues to pay for projected costs, but they must also maintain prudent cash reserves and meet both contractually obligated and target debt service coverage requirements. The sewer revenue requirement from rates therefore must include the cost of meeting both cash reserve and debt service coverage targets.
- <u>Determining Annual Revenue Requirement from Rates</u>: The final outcome of the financial planning process is the determination of the annual amount of rate revenue that must be recovered from customers to pay for all projected Wastewater Enterprise costs and meet financial targets.

6.2. Financial Plan Components

Existing Retail Wastewater Rates

The SFPUC's currently effective FY 2023 wastewater rates are shown in Table 6-1. The rates shown include:

- » A **Fixed Monthly Service Charge** that is the same for both residential and non-residential customers
- » Variable Charges per 100 CCF of discharge that vary based on whether the customer is residential or non-residential
- » Chemical Oxygen Demand (COD) per pound in 100 CCF of discharge that is charged to non-residential users. Residential users have this charge included in their volumetric charges.
- » **Total Suspended Solids (TSS) Charges** per pound in 100 CCF of discharge that is charged to non-residential users. Residential users have this charge included in their volumetric charges.
- » Oil and Grease (OG) Charges per pound in 100 CCF of discharge that is charged to non-residential users. Residential users have this charge included in their volumetric charges.

In addition to the current wastewater rates, the SFPUC currently assesses a monthly service charge to a small number of non-metered parcels to account for the stormwater runoff generated from these properties (see Table 6-2). Therefore, the current wastewater rates shown in Table 6-1 recover the cost of providing both wastewater and stormwater service.

Table 6-1: Current Wastewater Enterprise Rates

Line	Customer Class	Current Rate
1	Residential Wastewater	
2	Monthly Service Charge	\$5.21
3	Volume per Discharge Unit (CCF)	\$15.97
4		
5	Non-Residential Wastewater	
6	Monthly Service Charge	\$5.21
7	Volume per Discharge Unit (CCF)	\$9.46
8	Chemical Oxygen Demand (COD)/lb	\$0.65
9	Total Suspended Solids (TSS)/lb	\$1.65
10	Oil and Grease (OG)/lb	\$1.66

Table 6-2: Stormwater Runoff Rates for Customers without SFPUC Accounts

Line	Stormwater Class	Current Rate
1	Low Runoff	\$22.16
2	Standard Runoff	\$36.31

Wastewater Billing Methodology

The volumetric wastewater rates paid by SFPUC customers reflect the volume of their billed wastewater discharges and their assumed strength loadings for chemical oxygen demand (COD), total suspended solids (TSS), and Oil and Grease (OG). The \$/CCF volumetric rate paid by residential customers combines the costs the SFPUC incurs to treat both the volume and strength loadings of residential customers (Line 3 in Table 6-1). In contrast, non-residential customers pay a separately identified amount per CCF and dollars per pound (\$/lb) components for the volume of billed discharges (Line 7 in Table 6-1) and strength loadings (Lines 8 – 10 on Table 6-1).

The SFPUC's billing system assigns all wastewater customers to one of 11 strength loading groups based on their Standard Industrial Classification (SIC) Code. For example, a residential hotel with no eating facilities with a SIC Code of 7014 is assigned to strength loading Group 2. Similarly, a nursing facility with a SIC Code of 8050 is assigned to strength loading Group 3. With very few exceptions, residential customers are assigned strength loading Group 4. The SIC Codes and their loading groups are shown in Appendix G. This information is used to calculate the monthly volumetric bill paid by each wastewater customer. Table 6-3 shows the SFPUC's strength loading associated with each group.

Line

1

2

3

4

5

6

7

8

9

10

11

SIC Group 7

SIC Group 8

SIC Group 9

SIC Group 10

SIC Group 11

SIC Group 12

Strength Concentration (mg/L) Strength (lbs/CCF) **SIC Code** COD **TSS** COD **TSS** OG SIC Group 2 194 56 26 1.211 0.350 0.162 SIC Group 3 640 239 63 3.995 1.492 0.393 SIC Group 4 684 279 85 4.270 1.742 0.531 SIC Group 5 641 224 86 4.002 1.398 0.537 SIC Group 6 396 59 100 2.472 0.368 0.624

112

125

137

251

559

100

8.659

9.608

10.088

7.198

30.721

4.464

1.068

1.130

1.773

1.892

8.559

1.892

0.699

0.780

0.855

1.567

3.490

0.624

Table 6-3: Wastewater Enterprise Strength Loading Groups

171

181

284

303

1,371

303

Wastewater Unit-of-Service (Demand Forecast)

1,387

1,539

1,616

1,153

4,921

715

Table 6-4 through Table 6-8 summarize the projected wastewater discharge volumes and strength loadings for FY 2023 – FY 2028. The information shown Table 6-4 through Table 6-8 provides a foundation for the projection of revenues at existing rates, the allocation of costs to customer classes, and the determination of wastewater rates. These unit-of-service projections shown in Table 6-4 through Table 6-8 are based on actual historical recorded values for FY 2022 as obtained from the SFPUC's billing system. The FY 2022 units of service were projected forward using the following methodologies:

- <u>Projected Customer Accounts (Table 6-4)</u>: There is no projected customer account growth during the financial planning period. This reflects that fact that the City of San Francisco is virtually 100% built out.
- <u>Projected Discharge Volumes (Table 6-5)</u>: Discharge volumes in FY 2022 reflected the impact of the COVID-19 pandemic coupled with the effects of prolonged drought conditions on customer water usage. Beginning in FY 2023 customer wastewater discharge volumes are projected to return to historical norms for each type of customer.
- <u>Projected Discharge Strength Loadings (Table 6-6 through Table 6-8)</u>: Projected strength loading is directly correlated to projected discharge volumes.

Table 6-4: Projected Wastewater Enterprise Customer Accounts

Line	Customer Type	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Single Family Residential	Residential	111,671	111,671	111,671	111,671	111,671	111,671
2	Multifamily Residential	Residential	36,443	36,443	36,443	36,443	36,443	36,443
3	Municipal	Non-Residential	797	797	797	797	797	797
4	Nonresidential/Commercial	Non-Residential	15,182	15,182	15,182	15,182	15,182	15,182
5	Fire	Non-Residential	9,775	9,775	9,775	9,775	9,775	9,775
6	Municipal Fire	Non-Residential	354	354	354	354	354	354
7	Total Accounts		174,222	174,222	174,222	174,222	174,222	174,222
8								
9	Strength Group	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
10	SICGRP1	Varies	208	208	208	208	208	208
11	SICGRP2	Varies	356	356	356	356	356	356
12	SICGRP3	Varies	43	43	43	43	43	43
13	SICGRP4	Varies	99,297	99,297	99,297	99,297	99,297	99,297
14	SICGRP5	Varies	328	328	328	328	328	328
15	SICGRP6	Varies	9	9	9	9	9	9
16	SICGRP7	Varies	198	198	198	198	198	198
17	SICGRP8	Varies	111	111	111	111	111	111
18	SICGRP9	Varies	11	11	11	11	11	11
19	SICGRP10	Varies	1,891	1,891	1,891	1,891	1,891	1,891
20	SICGRP11	Varies	4	4	4	4	4	4
21	SICGRP12	Varies	319	319	319	319	319	319
22	NO SIC CODE (Note 1)	Varies	71,447	71,447	71,447	71,447	71,447	71,447
23	Total Accounts		174,222	174,222	174,222	174,222	174,222	174,222

Table 6-5: Projected Wastewater Enterprise Discharge Volumes (CCF)

Line	Customner Type	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Single Family Residential	Residential	5,852,347	5,745,781	5,831,301	5,933,638	5,877,158	5,841,158
2	Multifamily Residential	Residential	9,900,937	9,720,649	9,865,331	10,038,464	9,942,912	9,882,008
3	Municipal	Non-Residential	478,645	502,612	513,265	525,501	514,877	506,336
4	Nonresidential/Commercial	Non-Residential	5,230,218	5,747,608	5,815,681	5,900,020	5,825,165	5,771,448
5	Fire	Non-Residential	25,656	28,194	28,528	28,942	28,575	28,311
6	Municipal Fire	Non-Residential	552	580	592	606	594	584
7	Total Discharge		21,488,357	21,745,424	22,054,698	22,427,172	22,189,281	22,029,846
8								
9	Strength Group	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
10	SICGRP1	Varies	10,433	11,391	11,528	11,697	11,550	11,446
11	SICGRP2	Varies	589,153	647,433	655,101	664,602	656,170	650,119
12	SICGRP3	Varies	63,797	70,108	70,938	71,967	71,054	70,399
13	SICGRP4	Varies	13,066,514	13,196,809	13,386,809	13,615,240	13,469,806	13,372,058
14	SICGRP5	Varies	845,942	929,607	940,620	954,265	942,155	933,464
15	SICGRP6	Varies	3,054	3,356	3,396	3,445	3,402	3,370
16	SICGRP7	Varies	180,645	198,514	200,866	203,779	201,193	199,338
17	SICGRP8	Varies	19,004	20,884	21,131	21,438	21,166	20,971
18	SICGRP9	Varies	12,938	14,217	14,386	14,594	14,409	14,276
19	SICGRP10	Varies	498,801	548,062	554,569	562,627	555,476	550,341
20	SICGRP11	Varies	760	835	845	857	846	838
21	SICGRP12	Varies	137,980	151,629	153,425	155,650	153,676	152,258
22	NO SIC CODE (Note 1)	Varies	6,059,338	5,952,578	6,041,084	6,147,011	6,088,379	6,050,968
23	Total Accounts		21,488,357	21,745,424	22,054,698	22,427,172	22,189,281	22,029,846

Table 6-6: Projected Wastewater Enterprise COD Loadings (Pounds)

Line	Customner Type	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Single Family Residential	Residential	24,989,962	24,534,916	24,900,091	25,337,080	25,095,906	24,942,184
2	Multifamily Residential	Residential	42,277,835	41,507,991	42,125,792	42,865,086	42,457,071	42,197,005
3	Municipal	Non-Residential	2,024,408	2,125,773	2,170,833	2,222,582	2,177,648	2,141,526
4	Nonresidential/Commercial	Non-Residential	23,768,545	26,119,805	26,429,159	26,812,436	26,472,258	26,228,144
5	Fire	Non-Residential	9	10	10	10	10	10
6	Municipal Fire	Non-Residential	0	0	0	0	0	0
7	Total COD (lbs)		93,060,758	94,288,494	95,625,885	97,237,194	96,202,893	95,508,868
8								
9	Strength Group	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
10	SICGRP1	Varies	5,295	5,505	5,578	5,667	5,604	5,561
11	SICGRP2	Varies	717,457	788,430	797,768	809,337	799,069	791,700
12	SICGRP3	Varies	254,805	280,011	283,327	287,436	283,789	281,172
13	SICGRP4	Varies	56,971,927	57,645,753	58,472,189	59,466,386	58,828,694	58,399,373
14	SICGRP5	Varies	3,288,404	3,613,631	3,656,444	3,709,485	3,662,409	3,628,624
15	SICGRP6	Varies	9,548	10,493	10,617	10,771	10,634	10,536
16	SICGRP7	Varies	1,561,472	1,715,937	1,736,260	1,761,440	1,739,092	1,723,055
17	SICGRP8	Varies	157,489	173,068	175,118	177,658	175,404	173,786
18	SICGRP9	Varies	100,530	110,475	111,783	113,404	111,966	110,933
19	SICGRP10	Varies	3,571,034	3,923,852	3,970,409	4,028,073	3,976,898	3,940,159
20	SICGRP11	Varies	21,898	24,064	24,349	24,702	24,389	24,164
21	SICGRP12	Varies	619,696	680,998	689,064	699,057	690,187	683,823
22	NO SIC CODE (Note 1)	Varies	25,781,204	25,316,277	25,692,979	26,143,778	25,894,759	25,735,982
23	Total Accounts		93,060,758	94,288,494	95,625,885	97,237,194	96,202,893	95,508,868

Table 6-7: Projected Wastewater Enterprise TSS Loadings (Pounds)

Line	Customer Type	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Single Family Residential	Residential	10,193,273	10,007,662	10,156,615	10,334,861	10,236,487	10,173,785
2	Multifamily Residential	Residential	17,244,873	16,930,858	17,182,856	17,484,409	17,317,982	17,211,903
3	Municipal	Non-Residential	800,096	840,158	857,966	878,419	860,660	846,384
4	Nonresidential/Commercial	Non-Residential	7,774,587	8,543,674	8,644,863	8,770,231	8,658,960	8,579,111
5	Fire	Non-Residential	0	0	0	0	0	0
6	Municipal Fire	Non-Residential	0	0	0	0	0	0
7	Total TSS (lbs)		36,012,829	36,322,352	36,842,300	37,467,919	37,074,090	36,811,182
8								
9	Strength Group	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
10	SICGRP1	Varies	2,160	2,246	2,275	2,312	2,286	2,268
11	SICGRP2	Varies	207,432	227,952	230,652	233,997	231,028	228,898
12	SICGRP3	Varies	95,121	104,531	105,769	107,303	105,941	104,964
13	SICGRP4	Varies	22,604,391	22,817,727	23,146,341	23,541,408	23,290,569	23,122,154
14	SICGRP5	Varies	1,147,726	1,261,237	1,276,180	1,294,692	1,278,262	1,266,470
15	SICGRP6	Varies	2,653	2,915	2,950	2,993	2,955	2,927
16	SICGRP7	Varies	192,254	211,273	213,775	216,875	214,123	212,149
17	SICGRP8	Varies	19,187	21,085	21,335	21,644	21,370	21,173
18	SICGRP9	Varies	17,228	18,932	19,157	19,434	19,188	19,011
19	SICGRP10	Varies	942,318	1,035,389	1,047,680	1,062,902	1,049,393	1,039,694
20	SICGRP11	Varies	8,776	9,644	9,758	9,900	9,774	9,684
21	SICGRP12	Varies	260,776	286,573	289,967	294,172	290,440	287,762
22	NO SIC CODE (Note 1)	Varies	10,512,807	10,322,848	10,476,461	10,660,288	10,558,760	10,494,029
23	Total Accounts		36,012,829	36,322,352	36,842,300	37,467,919	37,074,090	36,811,182

Table 6-8: Projected Wastewater Enterprise Oil and Grease Loadings (Pounds)

Line	Customer Type	Customer Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Single Family Residential	Residential	3,105,478	3,048,930	3,094,310	3,148,614	3,118,643	3,099,541
2	Multifamily Residential	Residential	5,253,846	5,158,178	5,234,951	5,326,823	5,276,119	5,243,801
3	Municipal	Non-Residential	220,000	231,016	235,913	241,537	236,654	232,728
4	Nonresidential/Commercial	Non-Residential	3,036,535	3,336,919	3,376,440	3,425,406	3,381,946	3,350,760
5	Fire	Non-Residential	0	0	0	0	0	0
6	Municipal Fire	Non-Residential	0	0	0	0	0	0
7	Total O/G (lbs)		11,615,859	11,775,042	11,941,614	12,142,379	12,013,363	11,926,829
8								
9	Strength Group	Customer Rate Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
10	SICGRP1	Varies	658	684	693	704	696	691
11	SICGRP2	Varies	95,923	105,412	106,661	108,208	106,835	105,850
12	SICGRP3	Varies	25,072	27,552	27,879	28,283	27,924	27,667
13	SICGRP4	Varies	6,836,188	6,897,383	6,996,616	7,115,933	7,040,427	6,989,821
14	SICGRP5	Varies	441,325	484,972	490,718	497,836	491,518	486,984
15	SICGRP6	Varies	1,801	1,979	2,003	2,032	2,006	1,988
16	SICGRP7	Varies	126,077	138,549	140,190	142,223	140,419	139,124
17	SICGRP8	Varies	12,989	14,274	14,443	14,652	14,466	14,333
18	SICGRP9	Varies	7,190	7,902	7,995	8,111	8,008	7,934
19	SICGRP10	Varies	774,809	851,379	861,477	873,985	862,884	854,916
20	SICGRP11	Varies	2,493	2,739	2,772	2,812	2,776	2,751
21	SICGRP12	Varies	87,462	96,114	97,253	98,663	97,411	96,513
22	NO SIC CODE (Note 1)	Varies	3,203,872	3,146,102	3,192,916	3,248,937	3,217,991	3,198,259
23	Total Accounts		11,615,859	11,775,042	11,941,614	12,142,379	12,013,363	11,926,829

Projected Wastewater Revenues at Existing Rates

Table 6-9 shows a detail of projected rate revenues for the period FY 2023 – FY 2028 assuming that existing wastewater rates remain unchanged. The projection of revenues at existing rates, when compared to projected expenditures, allows for the quantification of the funding gap that must be filled by rate revenue increases, external debt financing, or some other form of funding. The revenues shown in Table 6-9 were calculated by multiplying the projected units of service for each year by the existing wastewater rates.

Table 6-9: Projected Wastewater Enterprise Revenue at Existing Rates

Line	Customer Class	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Single Family Residential	\$100,443,646	\$98,741,782	\$100,107,532	\$101,741,860	\$100,839,877	\$100,264,958
2	Multifamily Residential	\$160,396,402	\$157,517,207	\$159,827,768	\$162,592,707	\$161,066,741	\$160,094,100
3	Municipal	\$7,570,774	\$7,947,357	\$8,114,760	\$8,307,017	\$8,140,081	\$8,005,882
4	Nonresidential/Commercial	\$83,653,724	\$91,835,121	\$92,911,544	\$94,245,186	\$93,061,510	\$92,212,094
5	Fire	\$853,829	\$877,839	\$880,998	\$884,911	\$881,438	\$878,945
6	Municipal Fire	\$27,365	\$27,626	\$27,742	\$27,876	\$27,760	\$27,667
7	Total	\$352,945,740	\$356,946,933	\$361,870,344	\$367,799,557	\$364,017,407	\$361,483,646

Projected Wastewater Non-Rate Revenue Offsets

In addition to revenues produced by retail sewer rates, the Wastewater Enterprise has several sources of miscellaneous non-rate revenues that offset the amount of rate revenue that must be collected from retail sewer customers.

Table 6-10 provides a detailed projection of these miscellaneous revenues for the period FY 2023 – FY 2028. They include Other Retail Charges earned from providing retail sewer service to communities located outside of the City of San Francisco (Lines 2 and 3). They also include Operating Revenues from providing wastewater collection services to local sewer utility districts (Line 7), interest income (Line 8), and Federal Bond Interest Subsidy revenue (Line 9). Programmatic Revenue includes revenues from specific Wastewater Enterprise programs (Lines 14 – 18), which include wastewater rate revenue from the Treasure Island Development Authority and other revenues associated with the SFPUC's headquarters building at 525 Golden Gate Avenue. In addition, the Wastewater Enterprise also earns significant Non-Debt Capital Revenue from capacity charges (Line 22).

Table 6-10: Projected Wastewater Enterprise Miscellaneous Revenues

Line	Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Other Retail Charges						
2	Saddleback	\$73,782	\$81,348	\$89,924	\$99,664	\$108,475	\$118,472
3	Suburban Sanitary Retail (SSR)	\$4,927	\$5,290	\$5,587	\$6,189	\$6,748	\$7,380
4	Total Non-Rate Operating Revenue	\$78,709	\$86,638	\$95,511	\$105,853	\$115,223	\$125,852
5							
6	Operating Revenues						
7	Wholesale Sewer Charges Total	\$11,034,000	\$12,121,000	\$13,334,000	\$14,656,000	\$16,141,000	\$17,464,000
8	Interest Income Total	\$1,600,000	\$1,654,000	\$2,121,000	\$1,953,000	\$1,903,000	\$2,180,000
9	Federal Bond Interest Subsidy Total	\$3,470,860	\$3,356,167	\$3,234,710	\$3,105,412	\$2,967,774	\$2,821,938
10	Rental Revenue Total	\$747,800	\$774,000	\$795,000	\$815,000	\$836,000	\$857,000
11	Other Misc Income Total	\$735,033	\$910,608	\$935,000	\$959,000	\$984,000	\$1,009,000
12	Total Non-Rate Operating Revenue	\$17,587,693	\$18,815,775	\$20,419,710	\$21,488,412	\$22,831,774	\$24,331,938
13							
14	Programmatic Revenues						
15	Treasure Island Sewer Charges	\$1,555,000	\$1,715,000	\$1,896,000	\$2,102,000	\$2,288,000	\$2,499,000
16	525GG Infrastructure Recovery - O&M	\$265,000	\$268,000	\$268,000	\$268,000	\$276,000	\$284,000
17	525GG Infrastructure Recovery - Lease	\$1,872,000	\$1,872,000	\$1,872,000	\$1,872,000	\$1,872,000	\$1,872,000
18	525GG COPS Bond Interest Subsidy	\$520,828	\$511,760	\$493,247	\$473,961	\$453,862	\$432,911
19	Total Programmatic Revenue	\$4,212,828	\$4,366,760	\$4,529,247	\$4,715,961	\$4,889,862	\$5,087,911
20							
21	Non-Debt Capital Revenues						
22	Capacity Charges	\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
23	Total Non-Debt Capital Revenue	\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
24							
25							
26	TOTAL REVENUE	\$396,920,863	\$437,648,873	\$460,796,192	\$508,434,886	\$552,204,836	\$601,798,753

Projected Rate Funded CIP Expenditures

Table 6-11 shows the annual revenue budgeted as a funding source for capital expenditures, as approved in the SFPUC's FY 2024 10-Year Capital Improvement Plan. The revenue sources include capacity fees (i.e., one-time fees assessed to new development/intensified redevelopment) and local revenue (i.e., Retail Sewer sales). The amounts shown do not represent annual spending on capital projects, but rather the amount of revenues appropriated each year through the SFPUC's budget process as a funding source for pay-as-you-go (i.e., cash funded) capital projects to meet the long-term capital replacement needs of the Wastewater Enterprise.

Table 6-11: Projected Wastewater Enterprise CIP Expenditures by Funding Source

Line	CIP Expenditures by Funding Source	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Rate Funded	\$83,005,000	\$92,038,000	\$122,657,438	\$125,110,586	\$127,612,798	\$130,165,054
2	Revenue Bonds	\$658,750,000	\$607,500,000	\$0	\$825,855,000	\$736,610,000	\$0
3	Capacity Fees	\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
4	Annual CIP Expenditures	\$747,452,023	\$705,869,024	\$128,354,463	\$956,662,612	\$869,919,825	\$135,862,082
5	Cumulative CIP Expenditures	\$747.452.023	\$1,453,321,047	\$1.581.675.510	\$2.538.338.122	\$3,408,257,947	\$3.544.120.029

Projected Debt Service Expenditures

Table 6-12 shows existing and proposed Wastewater Enterprise debt service through FY 2028. The Wastewater Enterprise's existing debt service includes principal and interest payments associated with outstanding revenue bonds, State Revolving Fund (SRF) Loans, and Water Infrastructure Finance and Innovation Act (WIFIA) Loans.

Proposed debt service projections are based on the SFPUC Capital Financing Team's planned revenue bond issuances to fund Wastewater Enterprise CIP. The proposed debt service projections assume four new revenue bond issuances through FY 2028 (\$658,750,000 in FY 2023; \$607,500,000 in FY 2024; \$825,855,000 in FY 2026; and \$736,610,000 in FY 2027). Total issuance amounts include assumed interim financing costs associated with commercial paper. All proposed debt service was estimated based on a 5% interest rate, 30-year term, and 30 months of capitalized interest. The capitalized interest delays the payment of debt by adding the interest that would be accrued to the principal. This results in a lag in the timing of the proposed debt service.

FY 2024 FY 2025 Line **Debt Service** FY 2023 FY 2026 FY 2027 FY 2028 \$111,094,427 \$96,538,372 \$98,754,602 \$112,704,838 \$112,616,493 \$112,478,633 1 Senior Lien Revenue Bonds \$4.004.851 \$10.152.294 \$15.738.159 2 Senior Lien SRF \$4.004.851 \$10,483,590 \$15.738.159 3 Senior Lien WIFIA \$0 \$0 \$0 \$5,239,457 \$10,478,914 \$10,478,914 \$3,474,650 4 Senior Lien Revenue Notes \$3,474,650 \$3,474,650 \$2,382,875 \$645,550 \$0 5 Proposed Debt Service \$22,403,639 \$71,487,376 \$0 \$97,647,836 6 Total \$104,017,873 \$106,234,104 \$124,721,371 \$153,214,399 \$210,966,492 \$236,343,542

Table 6-12: Wastewater Enterprise Debt Service

Projected Wastewater Operations and Maintenance Expenses

The Wastewater Enterprise's O&M expenses primarily consist of personnel costs, administrative overhead costs, and other operating costs associated with wastewater and stormwater collection, conveyance, treatment, and disposal. Programmatic Expenses¹² are also included in the Wastewater Enterprise's O&M expenses. O&M expense projections are based on the FY 2023 and FY 2024 adopted budgets and take into account both annual inflationary and execution factor assumptions.

Before accounting for execution factors, budgeted O&M expenses in FY 2024 were escalated annually by inflationary assumptions (from Table 6-13) to establish preliminary O&M projections through FY 2028 (Table 6-14, Lines 1-14). All inflationary assumptions are consistent with the SFPUC staff's 10-Year Financial Plan. SFPUC staff conducted an analysis of actual versus budgeted Wastewater Enterprise O&M expenses in prior years, which provided the basis for execution factor assumptions (Table 6-14, Lines 16-25). Execution factors represent the percentage of budgeted expenses actually incurred each year. Adjusted O&M expense projections (Table 6-14, Lines 27-40) were calculated by multiplying the preliminary O&M expense projections by the corresponding execution factors. Financial plan projections presented in the following sections incorporate the adjusted O&M expense projections, inclusive of execution factors.

¹² Programmatic expenses include expenses associated with the SFPUC's headquarters building at 525 Golden Gate Avenue, Treasure Island operating costs, and the cost of other specific programs such as low impact development and the Youth Employment and Environment Program.

Table 6-13: Inflationary Assumptions for Wastewater Enterprise O&M Expenses

Line	Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	General	Budget	Budget	3.00%	3.00%	3.00%	3.00%
2	Salary	Budget	Budget	3.00%	3.00%	3.00%	3.00%
3	Benefits	Budget	Budget	4.40%	4.40%	4.40%	4.40%
4	Utilities	Budget	Budget	3.00%	3.00%	3.00%	3.00%
5	Chemicals	Budget	Budget	3.00%	3.00%	3.00%	3.00%

Table 6-14: Projected Wastewater Enterprise O&M Expenses

Line	Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	O&M Expenses (Before Execution Factors)	F1 2023	F1 2024	F1 2023	F1 2020	F1 2021	F1 2028
2	Personnel	\$87,160,554	\$88,584,816	\$91,596,129	\$94,713,347	\$97,940,333	\$101,281,093
3	Other Non-Personnel Services	\$26,603,401	\$27,295,904	\$28,114,906	\$28,958,483	\$29,827,373	\$30,722,336
4	Materials, Supplies & Equipment	\$14,348,388		\$15,710,443	\$16,181,756	\$16,667,209	\$17,167,225
5	Services of SFPUC Bureaus	\$37,573,094	\$15,252,857 \$38,145,082	\$39,289,434	\$40,468,117	\$41,682,161	\$42,932,626
6	Services of Other Departments	\$35,700,349	\$41,213,880	\$42,268,433	\$43,354,622	\$44,473,397	\$45,625,735
7	Other Operating Expenses	\$281,713	\$281,713	\$281,713	\$281,713	\$281,713	\$281,713
8	Subtotal O&M	\$201,667,499	\$210,774,252		\$223,958,038	\$230,872,185	\$238,010,728
9	Subtotal Odivi	\$201,007,433	3210,774,232	3217,201,037	\$223,330,030	\$230,672,103	3230,010,720
10	Programmatic Expenses						
11	Programmatic Expenses	\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749
12	Subtotal Programmatic	\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749
13	Subtotal Flogrammatic	\$7,750,517	\$7,700,331	\$7,007,711	\$7,030,100	\$1,033,112	\$7,550,745
14	Total O&M before Execution Factors	\$209,404,416	\$218,540,803	\$225,068,768	\$231,808,144	\$238,765,958	\$245,949,477
15	Total Gain Belove Execution Factors	Q203, 10 1, 120	V 220,5 10,003	V 223,000,700	V 232,000,211	4230). 03)330	V2 13,3 13, 111
16	O&M Expenses Execution Factors						
17	Personnel	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
18	Other Non-Personnel Services	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
19	Materials, Supplies & Equipment	90.0%	90.0%	90.0%	90.0%	90.0%	90.0%
20	Services of SFPUC Bureaus	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
21	Services of Other Departments	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
22	Other Operating Expenses	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
23							
24	Programmatic Expenses Execution Factors						
25	Programmatic Expenses	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
26							
27	O&M Expenses (After Execution Factors)						
28	Personnel	\$82,802,526	\$84,155,575	\$87,016,323	\$89,977,680	\$93,043,316	\$96,217,039
29	Other Non-Personnel Services	\$26,603,401	\$27,295,904	\$28,114,906	\$28,958,483	\$29,827,373	\$30,722,336
30	Materials, Supplies & Equipment	\$12,913,549	\$13,727,571	\$14,139,398	\$14,563,580	\$15,000,488	\$15,450,502
31	Services of SFPUC Bureaus	\$35,694,439	\$36,237,828	\$37,324,963	\$38,444,712	\$39,598,053	\$40,785,995
32	Services of Other Departments	\$35,700,349	\$41,213,880	\$42,268,433	\$43,354,622	\$44,473,397	\$45,625,735
33	Other Operating Expenses	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857
34	Subtotal O&M	\$193,855,121	\$202,771,615	\$209,004,879	\$215,439,933	\$222,083,483	\$228,942,463
35							
36	Programmatic Expenses						
37	Programmatic Expenses	\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749
38	Subtotal Programmatic	\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749
39							
40	Total O&M after Execution Factors	\$201,592,038	\$210,538,166	\$216,812,590	\$223,290,039	\$229,977,256	\$236,881,212

Status Quo Financial Plan

To evaluate the need for future year rate increases (referred to as "revenue adjustments"), MME and Raftelis first developed a status quo financial plan. The status quo financial plan assumes that current FY 2023 retail

water rates remain unchanged through FY 2028. The status quo financial plan (Table 6-15) combines projected revenues under existing rates (from Table 6-9), miscellaneous revenues (from Table 6-10), O&M expenses (from Table 6-14), debt service (from Table 6-12), and funding for pay-as-you-go capital expenditures (from Table 6-11) to project net revenue (revenue less O&M expenses), net cash flow (net revenue less debt service and funding for pay-as-you-go capital expenditures), reserve balances (for the entire Wastewater Enterprise), and debt coverage.

Reserve balance projections (Table 6-15, Lines 55-60) are based on the Wastewater Enterprise beginning fund balance in FY 2023 (as of July 1, 2022) and projected net cash flow thereafter. Debt coverage (Table 6-15, Lines 62-65) is shown based on the "Indenture Test," which allows for unappropriated fund balance to contribute toward debt service coverage. Additionally, net revenues used to calculate debt coverage (Table 6-15, Line 63) exclude specific revenues and expenses, which are legally restricted from being used to pay for debt service or not considered SFPUC operating expenses. This is in alignment with SFPUC staff's 10-Year Financial Plan. Projected reserve balances and debt coverage under the status quo financial plan are also shown in graphical format in Figure 6-1 and Figure 6-2.

In the absence of any revenue adjustments, the Wastewater Enterprise's reserve balance is projected to fall below the minimum level (per the SFPUC's Fund Balance Reserve Policy) and is fully depleted beginning in FY 2026. Debt coverage is projected to fall below the SFPUC's required level (per the SFPUC's Debt Service Coverage Policy) in FY 2026. More significantly, debt coverage is projected to fall below the required level per the SFPUC's bond covenants in FY 2027 and FY 2028. The status quo financial plan is therefore insufficient to meet the Wastewater Enterprise's financial needs through FY 2028. This demonstrates a clear need for revenue adjustments over the next five fiscal years to increase retail sewer rate revenues and ensure that Wastewater Enterprise's financial needs are met.

Table 6-15: Status Quo Wastewater Enterprise Financial Plan

	Category			FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	RETAIL RATE REVENUE SUBJECT	T TO ADJUSTMEN	TS						
2	Drought Revenue			\$16,282,325	\$17,302,729	\$0	\$0	\$0	\$0
3	Retail Rate Revenue from Exist	-		\$334,527,202	\$338,151,551	\$342,907,443	\$348,644,265	\$345,029,167	\$342,629,698
4	Retail Rate Revenue from Exist	ting Rates - Fixed		\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399
5	Municipal - Volumetric			\$7,526,181	\$7,903,026	\$8,070,545	\$8,262,935	\$8,095,884	\$7,961,591
6	Municipal - Fixed			\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957
7	Total Rate Revenue Subject to	Adjustments		\$369,228,064	\$374,249,662	\$361,870,344	\$367,799,557	\$364,017,407	\$361,483,646
8									
9	PROPOSED REVENUE ADJUSTM	1ENTS							
10	Fiscal	Revenue	Month						
11	Year	Adjustment	Effective						
12	FY 2024	0.0%	July		\$0	\$0	\$0	\$0	\$0
13	FY 2025	0.0%	July			\$0	\$0	\$0	\$0
14	FY 2026	0.0%	July				\$0	\$0	\$0
15	FY 2027	0.0%	July				·	\$0	\$(
16	FY 2028	0.0%	July					**	\$0
17	Total Revenue Adjustments	0.070	34.7	\$0	\$0	\$0	\$0	\$0	\$(
18	rotal nevenue najustinents		Ç0	70	Ţ.	70	Ç0	Ų.	
19	Adjustment for Drought Boyer	2110			(\$17.202.720)	\$0	\$0	\$0	\$0
	Adjustment for Drought Rever	¢110 FC0	(\$17,302,729)						
20	Stormwater Rate Revenue	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568		
21	Total Rate Revenue without Di	rougnt Kates		\$30 9 ,346,633	\$357,065,501	5301,988,912	\$367,918,125	\$364,135,975	\$361,602,214
22									
23	OTHER REVENUE								
24	Drought Rates (with Revenue I	Increase)		\$0		\$0	\$0	\$0	\$0
25	Other Retail Charges			\$78,709	\$86,638	\$95,511	\$105,853	\$115,223	\$125,852
26	Operating Revenues			\$17,587,693	\$18,815,775	\$20,419,710	\$21,488,412	\$22,831,774	\$24,331,938
27	Programmatic Revenues			\$4,212,828	\$4,366,760	\$4,529,247	\$4,715,961	\$4,889,862	\$5,087,913
28	Non-Debt Capital Revenues			\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
29	TOTAL REVENUES			\$396,920,863	\$403,966,403	\$392,728,380	\$399,923,351	\$397,667,835	\$396,842,915
30									
31	O&M EXPENSES								
32	Personnel			\$82,802,526	\$84,155,575	\$87,016,323	\$89,977,680	\$93,043,316	\$96,217,039
33	Other Non-Personnel Services			\$26,603,401		\$28,114,906	\$28,958,483	\$29,827,373	\$30,722,336
34	Materials, Supplies & Equipme			\$12,913,549			\$14,563,580	\$15,000,488	\$15,450,502
35	Services of SFPUC Bureaus			\$35,694,439		\$37,324,963	\$38,444,712	\$39,598,053	\$40,785,995
36	Services of Other Departments			\$35,700,349			\$43,354,622	\$44,473,397	\$45,625,735
37	Other Operating Expenses			\$140,857		\$140,857	\$140,857	\$140,857	\$140,857
38	Programmatic Expenses			\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749
39	TOTAL O&M EXPENSES					·	\$223,290,039		
	TOTAL OWIVI EXPENSES			3201,332,036	\$210,538,166	\$216,812,590	3223,230,033	\$229,977,256	\$236,881,212
40	NET DEVENUE			¢405 220 024	¢102 420 227	Ć47F 04F 700	¢176 622 212	¢1.67.600.570	¢450 004 703
41	NET REVENUE			\$195,526,624	\$193,428,237	\$175,315,730	\$176,633,312	\$167,690,579	\$159,961,703
42									
43	DEBT SERVICE								
44	Existing Debt Service				\$106,234,104		. , ,	\$139,479,116	
44 45	Existing Debt Service Proposed Debt Service			\$0	\$0	\$0	\$130,810,760 \$22,403,639	\$139,479,116 \$71,487,376	
				\$0		\$0	. , ,		\$97,647,836
45	Proposed Debt Service			\$0	\$0	\$0	\$22,403,639	\$71,487,376	\$97,647,836
45 46	Proposed Debt Service	O CIP		\$0	\$0	\$0	\$22,403,639	\$71,487,376	\$97,647,836
45 46 47	Proposed Debt Service TOTAL DEBT SERVICE	O CIP		\$0	\$0 \$106,234,104	\$0	\$22,403,639	\$71,487,376	\$97,647,836 \$236,343,542
45 46 47 48	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-G	O CIP		\$0 \$104,017,873	\$0 \$106,234,104	\$0 \$124,721,371	\$22,403,639 \$153,214,399	\$71,487,376 \$210,966,492	\$97,647,836 \$236,343,542 \$130,165,054
45 46 47 48 49	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRAte Funded			\$0 \$104,017,873 \$83,005,000	\$0 \$106,234,104 \$92,038,000 \$6,329,000	\$0 \$124,721,371 \$122,657,438	\$22,403,639 \$153,214,399 \$125,110,586	\$71,487,376 \$210,966,492 \$127,612,798	\$97,647,836 \$236,343,54 \$130,165,054 \$5,695,000
45 46 47 48 49 50	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRAte Funded Capacity Fee Funded			\$0 \$104,017,873 \$83,005,000 \$5,695,000	\$0 \$106,234,104 \$92,038,000 \$6,329,000	\$0 \$124,721,371 \$122,657,438 \$5,695,000	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000	\$97,647,836 \$236,343,54 \$130,165,054 \$5,695,000
45 46 47 48 49 50 51	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FUNDING FOR PAY-AS-YOU-GRATE FUNDING FUND			\$104,017,873 \$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798	\$97,647,836 \$236,343,542 \$130,165,054 \$5,695,000 \$135,860,054
45 46 47 48 49 50 51 52 53	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FUNDI	YOU-GO CIP	BT PROCFFIN	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000	\$97,647,836 \$236,343,542 \$130,165,054 \$5,695,000 \$135,860,054
45 46 47 48 49 50 51 52 53 59	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING BALANCE (EXCLUDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING FUNDING BALANCE (EXCLUDING FOR PAY-AS-YOU-GRATE FUNDING FUNDI	YOU-GO CIP	BT PROCEEDS	\$0 \$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866)	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019)	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672)	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711)	\$97,647,836 \$236,343,542 \$130,165,054 \$5,695,000 \$135,860,054 (\$212,241,893
45 46 47 48 49 50 51 52 53 59 60	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FLOW FUNDING BALANCE (EXCLUDING BEGINNING BALANCE)	YOU-GO CIP	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$157,769,951	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655)	\$97,647,836 \$236,343,542 \$130,165,054 \$5,695,000 \$135,860,054 (\$212,241,893
45 46 47 48 49 50 51 52 53 59 60 61	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING BEGINNING BALANCE (EXCLUDING BEGINNING BALANCE Net Cash Flow	YOU-GO CIP	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$157,769,951 \$2,610,951	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866)	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019)	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672)	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711)	\$97,647,831 \$236,343,54. \$130,165,05- \$5,695,00 \$135,860,05- (\$212,241,89: (\$211,920,36) (\$212,241,89:
45 46 47 48 49 50 51 52 53 59 60 61 62	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING Beginning Balance Net Cash Flow ENDING BALANCE	YOU-GO CIP	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$2,610,951 \$160,380,902	\$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018	\$125,110,586 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655)	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366)	\$97,647,831 \$236,343,54. \$130,165,05- \$5,695,00 \$135,860,05- (\$212,241,89: (\$211,920,366 (\$212,241,89: (\$424,162,25:
45 46 47 48 49 50 51 52 53 59 60 61 62 63	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING BEGINNING BALANCE FUNDING BALANCE Ending Balance (% of Annual O&M.)	YOU-GO CIP NG PROPOSED DE	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$157,769,951 \$2,610,951 \$160,380,902 79.6%	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036 70.9%	\$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018 33.2%	\$125,110,586 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655) -15.8%	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366) -92.1%	\$97,647,831 \$236,343,54. \$130,165,05. \$5,695,00 \$135,860,05. (\$212,241,89. (\$212,241,89. (\$424,162,25.
45 46 47 48 49 50 51 52 53 59 60 61 62 63 64	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING Beginning Balance Net Cash Flow ENDING BALANCE	YOU-GO CIP NG PROPOSED DE	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$2,610,951 \$160,380,902	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036 70.9%	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018	\$125,110,586 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655)	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366)	\$97,647,831 \$236,343,54. \$130,165,05. \$5,695,00 \$135,860,05. (\$212,241,89. (\$212,241,89. (\$424,162,25.
45 46 47 48 49 50 51 52 53 59 60 61 62 63 64 65	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING Beginning Balance Net Cash Flow ENDING BALANCE Ending Balance (% of Annual O&M. Minimum Reserve Target (% of Annual O.M. Minimum Reserve Target	YOU-GO CIP NG PROPOSED DE	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$157,769,951 \$2,610,951 \$160,380,902 79.6%	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036 70.9%	\$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018 33.2%	\$125,110,586 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655) -15.8%	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366) -92.1%	\$97,647,831 \$236,343,54. \$130,165,05. \$5,695,00 \$135,860,05. (\$212,241,89. (\$212,241,89. (\$424,162,25.
45 46 47 48 49 50 51 52 53 59 60 61 62 63 64	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING BEGINNING BALANCE FUNDING BALANCE Ending Balance (% of Annual O&M.)	YOU-GO CIP NG PROPOSED DE	BT PROCEEDS	\$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$157,769,951 \$2,610,951 \$160,380,902 79.6%	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036 70.9%	\$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018 33.2%	\$125,110,586 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655) -15.8%	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366) -92.1%	\$97,647,836 \$236,343,543 \$130,165,056 \$5,695,000 \$135,860,056 (\$212,241,893 (\$212,241,893 (\$424,162,255 -179.13
45 46 47 48 49 50 51 52 53 59 60 61 62 63 64 65	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING Beginning Balance Net Cash Flow ENDING BALANCE Ending Balance (% of Annual O&M. Minimum Reserve Target (% of Annual O.M. Minimum Reserve Target	YOU-GO CIP NG PROPOSED DE () ual O&M)	BT PROCEEDS	\$0 \$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$2,610,951 \$2,610,951 \$160,380,902 79.6% 25.0%	\$0 \$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036 70.9%	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018 33.2% 25.0%	\$125,110,586 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655) -15.8%	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366) -92.1%	\$97,647,836 \$236,343,542 \$130,165,054 \$5,695,000 \$135,860,054 (\$212,241,893 (\$212,241,893 (\$424,162,255 -179.15 25.05
45 46 47 48 49 50 51 52 53 59 60 61 62 63 64 65 66	Proposed Debt Service TOTAL DEBT SERVICE FUNDING FOR PAY-AS-YOU-GRATE Funded Capacity Fee Funded TOTAL FUNDING FOR PAY-AS-YOU-GRATE FUNDING FOR PAY-AS-YOU-GRATE FUNDING BALANCE (EXCLUDING Beginning Balance Net Cash Flow ENDING BALANCE Ending Balance (% of Annual O&M. Minimum Reserve Target (% of Annual CURRENT DEBT SERVICE COVER	YOU-GO CIP NG PROPOSED DE () ual O&M)	BT PROCEEDS	\$0 \$104,017,873 \$83,005,000 \$5,695,000 \$88,700,000 \$2,610,951 \$2,610,951 \$2,610,951 \$160,380,902 79.6% 25.0%	\$106,234,104 \$92,038,000 \$6,329,000 \$98,367,000 (\$11,172,866) \$160,380,902 (\$11,172,866) \$149,208,036 70.9% 25.0%	\$0 \$124,721,371 \$122,657,438 \$5,695,000 \$128,352,438 (\$77,158,019) \$149,208,036 (\$77,158,019) \$72,050,018 33.2% 25.0%	\$22,403,639 \$153,214,399 \$125,110,586 \$5,695,000 \$130,805,586 (\$107,386,672) \$72,050,018 (\$107,386,672) (\$35,336,655) -15.8% 25.0%	\$71,487,376 \$210,966,492 \$127,612,798 \$5,695,000 \$133,307,798 (\$176,583,711) (\$35,336,655) (\$176,583,711) (\$211,920,366) -92.1% 25.0%	(\$211,920,366 (\$212,241,893

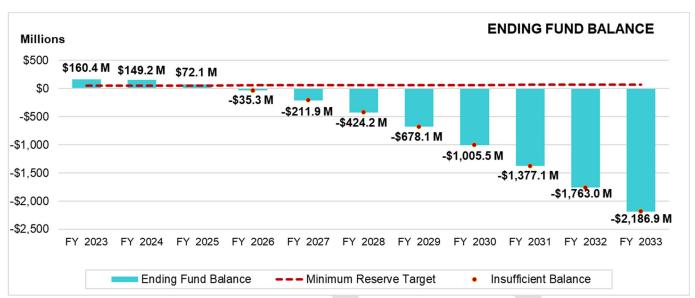
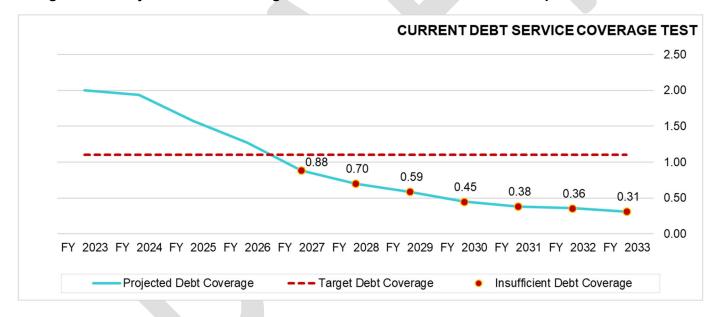


Figure 6-1: Projected Reserve Balances Under Status Quo Wastewater Enterprise Financial Plan

Figure 6-2: Projected Debt Coverage Under Status Quo Wastewater Enterprise Financial Plan



Proposed Wastewater Enterprise Financial Plan

The Wastewater Enterprise must increase its revenues from retail sewer rates to adequately fund its operating and capital expenditures, meet required debt coverage, and maintain sufficient reserve funding over the next five years. SFPUC staff evaluated various scenarios using its 10-Year Financial Plan Model before arriving at the proposed and planned revenue adjustments (i.e., overall annual rate increases) shown below in Table 6-13. The proposed revenue adjustments ensure the Wastewater Enterprise meets all its financial policies throughout the entire ten-year planning period, with some buffer in case of unexpected expenditures or revenue reductions or the removal of the Drought Surcharge. All revenue adjustments are assumed to become effective at the beginning of each fiscal year in July. Note that although this report includes proposed

rates over a five-year period, SFPUC staff is only recommending that the Commission consider adoption of the first three years of proposed rates (i.e., FY 2024-FY 2026).

Table 6-16: Proposed Wastewater Enterprise Revenue Adjustments

		Proposed Revenue	Effective	
Line	Fiscal Year	Adjustment	Date	Notes
1	FY 2024	9.0%	7/1/2023	Proposed
2	FY 2025	9.0%	7/1/2024	Proposed
3	FY 2026	9.0%	7/1/2025	Proposed
4	FY 2027	10.0%	7/1/2026	For Near-Term Planning Purposes Only
5	FY 2028	10.0%	7/1/2027	For Near-Term Planning Purposes Only
6	FY 2029	10.0%	7/1/2028	For Long-Term Planning Purposes Only
7	FY 2030	9.0%	7/1/2029	For Long-Term Planning Purposes Only
8	FY 2031	9.0%	7/1/2030	For Long-Term Planning Purposes Only
9	FY 2032	5.0%	7/1/2031	For Long-Term Planning Purposes Only
10	FY 2033	5.0%	7/1/2032	For Long-Term Planning Purposes Only

The proposed financial plan (Table 6-17) was developed using the same calculation methodology outlined in the previous section for the status quo financial plan (from Table 6-15). The key difference is the inclusion of additional retail wastewater rate revenue (Table 6-17, Lines 9-17). The additional revenue from revenue adjustments is calculated based on current revenue from retail wastewater rates, exclusive of revenue from contract customers (which are subject to unique rates stipulated in each contract). The proposed revenue adjustments are projected to generate an additional \$208.7 million in retail wastewater rate revenue relative to current rates by FY 2026.

With the addition of the proposed and planned revenue adjustments, the Wastewater Enterprise's reserve balance is projected to meet the minimum level (per the SFPUC's Fund Balance Reserve Policy) each year through FY 2028. Debt coverage is projected to meet the SFPUC's required level (per the SFPUC's Debt Service Coverage Policy) in all future years. Projected reserve balances and debt coverage under the proposed financial plan are also shown in graphical format in Figure 6-3 and Figure 6-4. The proposed financial plan demonstrates a five-year plan that generates sufficient revenue to meet the SFPUC's official financial policies.

Note that SFPUC staff and the MME and Raftelis team opted for a levelized approach to capital planning for the purpose of setting rates to avoid any rate spikes across years during the study period. The proposed financial plan results in fund balances above the minimum reserve amount to provide added contingency given the uncertainty in future capital spending needs in any given year, and to ensure sufficient cash on hand once Drought Surcharges are no longer in effect. In future years, the ten-year plan shows the enterprise fund balance gradually approaching the minimum target for O&M and the minimum debt coverage in the out years (Figure 6-3).

Table 6-17: Proposed Wastewater Enterprise Financial Plan

Line	Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	RETAIL RATE REVENUE SUBJECT TO ADJUSTMENTS						
2	Drought Revenue	\$16,282,325	\$17,302,729	\$0	\$0	\$0	\$0
3	Retail Rate Revenue from Existing Rates - Volumetric	\$334,527,202	\$338,151,551	\$342,907,443	\$348,644,265	\$345,029,167	\$342,629,698
4	Retail Rate Revenue from Existing Rates - Fixed	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399
5	Municipal - Volumetric	\$7,526,181	\$7,903,026	\$8,070,545	\$8,262,935	\$8,095,884	\$7,961,591
6	Municipal - Fixed	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957
7	Total Rate Revenue Subject to Adjustments	\$369,228,064	\$374,249,662	\$361,870,344	\$367,799,557	\$364,017,407	\$361,483,646
8							
9	PROPOSED REVENUE ADJUSTMENTS						
10	Fiscal Revenue Month						
11	Year Adjustment Effective						
12	FY 2024 9.0% July		\$32,125,224	\$32,568,331	\$33,101,960	\$32,761,567	\$32,533,528
13	FY 2025 9.0% July			\$35,499,481	\$36,081,137	\$35,710,108	\$35,461,546
14	FY 2026 9.0% July				\$39,328,439	\$38,924,017	\$38,653,085
15	FY 2027 10.0% July					\$47,141,310	\$46,813,180
16	FY 2028 10.0% July						\$51,494,498
17	Total Revenue Adjustments	\$0	\$32,125,224	\$68,067,812	\$108,511,536	\$154,537,001	\$204,955,837
18	·						
19	Adjustment for Drought Revenue		(\$17,302,729)	\$0	\$0	\$0	\$0
20	Stormwater Rate Revenue	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568
21	Total Rate Revenue without Drought Rates	\$369,346,633	\$389,190,725	\$430,056,724	\$476,429,661	\$518,672,976	\$566,558,051
22	•						
23	OTHER REVENUE						
24	Drought Rates (with Revenue Increase)	\$0	\$18,859,974	\$0	\$0	\$0	\$0
25	Other Retail Charges	\$78,709	\$86,638	\$95,511	\$105,853	\$115,223	\$125,852
26	Operating Revenues	\$17,587,693	\$18,815,775	\$20,419,710	\$21,488,412	\$22,831,774	\$24,331,938
27	Programmatic Revenues	\$4,212,828	\$4,366,760	\$4,529,247	\$4,715,961	\$4,889,862	\$5,087,911
28	Non-Debt Capital Revenues	\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
29	TOTAL REVENUES		\$437,648,873				
30		,			, ,	, , ,	, , ,
31	O&M EXPENSES						
32	Personnel	\$82,802,526	\$84,155,575	\$87,016,323	\$89,977,680	\$93,043,316	\$96,217,039
33	Other Non-Personnel Services	\$26,603,401			\$28,958,483		\$30,722,336
34	Materials, Supplies & Equipment	\$12,913,549			\$14,563,580		\$15,450,502
35	Services of SFPUC Bureaus	\$35,694,439			\$38,444,712		\$40,785,995
36	Services of Other Departments	\$35,700,349		\$42,268,433	\$43,354,622		\$45,625,735
37	Other Operating Expenses	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857
38	Programmatic Expenses	\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749
39	TOTAL O&M EXPENSES		\$210,538,166				\$236,881,212
40		,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,	,,,_,,,	,,	+,
41	NET REVENUE	\$195.328.824	\$227,110,707	\$243,983,602	\$285.144.848	\$322,227,580	\$364.917.541
42		,,	, ,,	7	,,	, ,	700 ,,,,,,,,,
43	DEBT SERVICE						
44	Existing Debt Service	\$104 017 873	\$106,234,104	\$124 721 371	\$130 810 760	\$139 479 116	\$138 695 706
45	Proposed Debt Service	\$0				\$71,487,376	
46	TOTAL DEBT SERVICE		\$106,234,104				
47	TO TAL DEDT SERVICE	710-1,017,073	7100,23 1,10 1	Ψ12-1,721,071	Ų133, 2 14,333	7210,300, 432	7230,313,312
48	FUNDING FOR PAY-AS-YOU-GO CIP						
49	Rate Funded	\$83,005,000	\$92 038 000	\$122 657 438	\$125 110 586	\$127,612,798	\$130 165 054
50	Capacity Fee Funded	\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
51	TOTAL FUNDING FOR PAY-AS-YOU-GO CIP	\$88,700,000				\$133,307,798	
52	TOTAL TOTAL AS TOO CO CIT	\$55,755,555	450,507,000	7120,332,430	\$130,003,300	\$133,307,73 0	7100,000,004
53	NET CASH FLOW	\$2,610,951	\$22,509,603	(\$9,090,207)	\$1 124 863	(\$22,046,710)	(\$7.286.055)
54	FUNDING BALANCE (EXCLUDING PROPOSED DEBT PROCEE		7 ,000,000	(45,650,207)	¥=,== 1,000	(422)0 10,720,	(41)=00)000)
55	Beginning Balance	•	\$160,380,902	\$182,890.506	\$173,800.299	\$174,925,162	\$152.878.452
56	Net Cash Flow	\$2,610,951		(\$9,090,207)			(\$7,286,055)
57	ENDING BALANCE		\$182,890,506				
58	Ending Balance (% of Annual O&M)	79.6%			78.3%		61.5%
59	Minimum Reserve Target (% of Annual O&M)	25.0%			25.0%		25.0%
60		25.570	25.070	25.070	25.070	25.070	23.070
61	CURRENT DEBT SERVICE COVERAGE TEST						
62	Net Revenue Subject to Debt Coverage Test	\$191 QN2 N22	\$223,289,201	\$239 760 260	\$280 211 760	\$316 650 477	\$358 627 NG2
63	Projected Debt Coverage	1.92			1.96		1.57
64	Required Debt Coverage	1.10			1.10		1.10
04		1.10	1.10	1.10	1.10	1.10	1.10

Figure 6-3: Projected Reserve Balances under Proposed Wastewater Enterprise Financial Plan

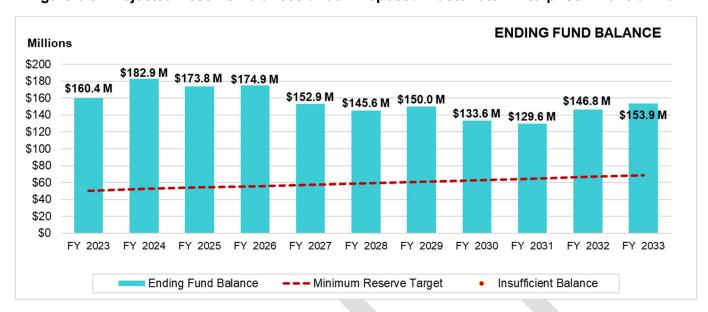
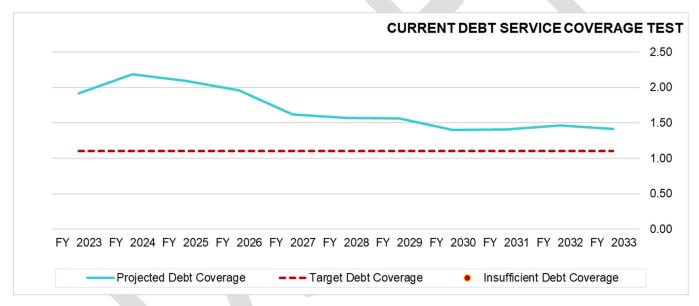


Figure 6-4: Projected Wastewater Enterprise Debt Service Coverage



7. Sewer Cost of Service Analysis

This section details the sewer cost of service (COS) analysis performed for the Wastewater Enterprise. A COS analysis distributes a utility's revenue requirements from rates (costs) to each customer class based on their proportionate share of total system sewer demand. The COS analysis completed by Raftelis for the Wastewater Enterprise follows industry standard cost allocation principles as presented in the Water Environment Federation's <u>Manual of Practice No. 27, Financing and Charges for Wastewater Systems</u> (WEF Manual No. 27).

As part of the cost of service analysis in this study, sewer costs¹³ were split between the wastewater related costs for sanitary sewer service and stormwater related costs for the collection and treatment of runoff from properties. Currently, stormwater-related costs are recovered as part of wastewater rates. By splitting these costs, SFPUC will be able to enhance the equity in their rate structure by establishing a stormwater change in addition to the wastewater rates. Under this new methodology, all customers will be billed for the total flows that they contribute to SFPUC's combined sewer system.

7.1. Sewer Cost of Service Methodology

The framework and methodology used to develop the COS analysis and to apportion the revenue requirement to each customer class is informed by the processes outlined in WEF Manual No. 27. COS analyses are tailored specifically to meet the unique needs of each customer class's use of the sewer system. However, there are five distinct steps in every COS analysis to recover costs from customers in an equitable, and defensible manner:

- **Revenue Requirement Determination**: The first step in the COS analysis is to determine the revenue required from rates, which is determined directly from the results of the proposed financial plan presented in the previous section.
- <u>Cost Functionalization</u>: Expenses are categorized based on their associated function in the wastewater system. Functions include primary treatment, secondary treatment, disinfection, pumping/lift stations, collection, biosolids handling, etc.
- <u>Cost Component Allocation</u>: Functionalized expenses are then allocated to cost components based on the associated burden on the wastewater system. Cost components include flow (the volume of wastewater discharges), and strength loading characteristics such as COD and TSS. The revenue requirement is allocated accordingly to each cost component and results in a total revenue requirement for each cost causation component.
- <u>Unit COS Development</u>: The revenue requirement for each cost component is divided by the appropriate units of service to determine the unit COS for each cost component.
- Revenue Requirement Distribution: Unit costs for each cost component are utilized to distribute the revenue requirement to customer classes based on each class's proportional use of the wastewater system.

¹³ The term sewer is used when referring to both wastewater and stormwater expenses, revenues, and charges.

7.2. Sewer Revenue Requirement Determination

A COS analysis allocates the rate revenue requirement for a single rate-setting year, typically referred to as the "test year." In this study, the test year is FY 2024 (i.e., the first year of the proposed three-year rate schedule). Table 7-1 shows the total retail sewer rate revenue requirement for FY 2024, divided between operating and capital cost components (Line 19). The total revenue requirement is equal to the sum of revenue requirements (Lines 1-5), revenue offsets (Lines 7-13), and adjustments (Lines 15-17).

Revenue requirements (Lines 1-5) include the sum of FY 2024 O&M expenses, debt service, and pay-as-you-go funding for CIP per the proposed financial plan (from Table 6-11). Revenue offsets (Lines 7-18) include all other revenues per the proposed financial plan (from Table 6-17). Total revenue offsets (Line 13) are applied as a funding source for the overall revenue requirement (Line 5) to effectively reduce the total rate revenue requirement (Line 19). Finally, an adjustment is added (Line 16) to account for contributions to reserves, which is equal to FY 2024 net cash flow per the proposed financial plan (from Table 6-17). The total retail rate revenue requirement (Line 19) is the total revenue to be recovered by sewer rates and charges in FY 2024, inclusive of additional revenue from the 9% proposed revenue adjustment.

Table 7-1: FY 2024 Wastewater Enterprise Revenue Requirement

Line	Category	Operating (O&M)	Capital	Total
1	Revenue Requirements			
2	Wastewater O&M	\$210,538,166		\$210,538,166
3	Existing Debt Service		\$106,234,104	\$106,234,104
4	Rate Funded CIP		\$92,038,000	\$92,038,000
5	Total	\$210,538,166	\$198,272,104	\$408,810,270
6				
7	Less: Revenue Offsets			
8	Other Retail Charges	\$86,638		\$86,638
9	Operating Revenues	\$18,815,775		\$18,815,775
10	Programmatic Revenues	\$4,366,760		\$4,366,760
11	Non-Debt Capital Revenues		\$0	\$0
12	Drought Rate Offset	\$18,859,974		\$18,859,974
13	Total Revenue Offset	\$42,129,148	\$0	\$42,129,148
14				
15	Adjustments			
16	Change in Cash Reserves		\$22,509,603	\$22,509,603
17	Total Adjustments	\$0	\$22,509,603	\$22,509,603
18				
19	Revenue Requirement from Rates	\$168,409,018	\$220,781,707	\$389,190,725

7.3. Sewer System Cost Functionalization

The assignment of costs to functional categories is a critical step in the COS process. It answers the question, what sewer system utility functions are supported by (i.e., paid for) the rate revenue provided by customers? The total retail rate revenue requirement to the following sewer system functions are:

- » **Headworks**: relating to removing large inorganic materials from the influent streams entering the SFPUC's wastewater treatment plants
- » Primary Treatment: relating to the sedimentation process that removes suspended organic solids from sewage
- **Secondary Treatment**: relating to the process of removing soluble organic material from sewage through biological processes and secondary settling
- » Solid Handling: relating to the process used to reduce and stabilized the volume of sludge produced
- **Pumping/Lift Stations:** relating to the process of pumping from a lower elevation to a higher elevation as sewage moves through the sanitary sewer collection and conveyance system
- » Stormwater: relating to surface water runoff that is generated from both permeable and impermeable surfaces during wet weather events (rainfall). Stormwater enters the sewer collection system and is conveyed to the SFUC's wastewater treatment plants
- » General Collections: relating to the system of pipes that collect and convey customer wastewater discharges and stormwater flows caused by wet weather events
- » Interceptors: relating to large diameter sewer pipes that aggregate customer wastewater discharges and stormwater flows caused by wet weather events before delivery to the SFPUC's wastewater treatment plants
- » Customer Service: relating to meter reading, billing, customer call center services, and other customer service functions
- » Bureau: relating to costs that are directly associated with SFPUC administrative activities
- » **Indirect General**: relating to general administration and overhead, as well as any activities not directly attributable to one of the above functions
- **Revenue Offsets**: relating specifically to any other revenues not attributed to any of the above functions

To allocate the retail wastewater rate revenue requirement to the above functions, the following functional allocation bases were first established (see Table 7-2):

O&M Cost Functionalization Basis: The FY 2024 Wastewater Enterprise O&M revenue requirement is \$210,538,200 (Line 5 in Table 7-1). The FY 2024 O&M revenue requirement was assigned to functions based on a detailed SFPUC staff analysis of approximately 350 O&M budget operating and programmatic expenses. Expenses were evaluated at the departmental level and allocated across various functions based on the best available information provided by each department's management. Most departments allocated costs based on the percentage of staff time devoted to each functional activity.

<u>Capital Cost Functionalization Basis</u>: The total FY 2024 capital cost revenue requirement is \$220,781,707. This amount reflects the revenue requirement associated with existing debt service payments, rate-funded CIP, and the change in cash reserves (Line 19 of Table 7-1). Capital costs were allocated to functions using the following methodology:

• Existing Debt Service: This portion of capital costs was allocated to functions by identifying the specific capital assets paid for by past SFPUC debt issues. The SFPUC staff reviewed a total of 12 past revenue bond issues, seven state revolving fund loans, and two existing loans associated with WIFIA. The result was the direct allocation of existing debt service to the functions it was used to finance.

• Rate-Funded CIP and Change in Cash Reserves: This capital cost component was allocated to functions based on the specific functions that will be performed by the capital projects included in the SFPUC's 10-year CIP plan for the period FY 2024 – FY 2033.

<u>Functionalization Basis for Non-Rate Revenue Offsets</u>: The FY 2024 non-rate revenue offsets total \$42,129,148. This amount is detailed in Table 7-1, Lines 8 -12 and includes Other Retail Charges, Operating Revenues, Programmatic Revenues, and a Drought Rate Offset. With the exception of the Drought Rate Offset, all of the items were functionalized in a manner to the O&M cost functionalization. The Drought Rate Offset was functionalized based on the combined functionalization of both O&M and capital costs.

Table 7-2 shows the functional allocation percentages for the FY 2024 revenue requirement.

Table 7-2: Summary of FY 2024 Functional Allocation Percentages

Line	Function	O&M	Debt	Cash-Funded	Revenue
	i dilibuloti	5 3	2000	Capital	Offsets
1	Headworks	3.54%	3.96%	0.63%	3.24%
2	Primary Treatment	3.50%	1.31%	0.69%	2.93%
3	Secondary Treatment	8.08%	1.80%	1.68%	6.63%
4	Disinfection / Discharge	5.03%	3.43%	1.08%	4.38%
5	Solids Handling	16.72%	45.04%	35.61%	22.09%
6	Pumping / Lift Stations	8.29%	5.16%	7.20%	7.81%
7	Stormwater	4.06%	7.94%	0.00%	4.00%
8	General Collections	11.58%	31.37%	16.48%	14.34%
9	Interceptors	0.00%	0.01%	36.51%	4.34%
10	Customer Service	0.00%	0.00%	0.13%	0.02%
11	Bureau	17.21%	0.00%	0.00%	13.27%
12	Indirect	21.99%	0.00%	0.00%	16.95%
13	Total	100%	100%	100%	100%

Table 7-3 shows the allocation basis for each revenue requirement component.

Table 7-3: FY 2024 Revenue Requirement Allocation Basis

9	Description	(A)	(B)
	RETAIL REVENUE REQUIREMENT	FY 2024 (\$)	Functional Allocation Basis
	Revenue Requirements		
	O&M Expenses	\$210,538,166	O&M
	Debt Service	\$106,234,104	Debt
	Funding for Pay-as-You-Go CIP	\$92,038,000	CIP
	Subtotal	\$408,810,270	-
	Revenue Offsets		
	Saddleback	\$81,348	Overall O&M Allocation
	Suburban Sanitary Retail (SSR)	\$5,290	Overall O&M Allocation
	Wholesale Sewer Charges Total	\$12,121,000	Overall O&M Allocation
	Interest Income Total	\$1,654,000	Overall O&M Allocation
	Federal Bond Interest Subsidy Total	\$3,356,167	Overall O&M Allocation
	Rental Revenue Total	\$774,000	Overall O&M Allocation
	Other Misc Income Total	\$910,608	Overall O&M Allocation
	Treasure Island Sewer Charges	\$1,715,000	Overall O&M Allocation
	525GG Infrastructure Recovery - O&M	\$268,000	Overall O&M Allocation
	525GG Infrastructure Recovery - Lease	\$1,872,000	Overall O&M Allocation
	525GG COPS Bond Interest Subsidy	\$511,760	Overall O&M Allocation
	Drought Surcharges	\$18,859,974	Overall Capital Allocation
	Subtotal	\$42,129,148	
	Adjustments		
	Contribution To (Draw Down From) Reserves	\$22,509,603	CIP
	Subtotal	\$22,509,603	
	Total Retail Revenue Requirement	\$389,190,725	
			•
	ALLOCATION OF RETAIL RATE REVENUE REQUIRE	MENT TO FUNCTIONS	FY 2024 (\$)
	Headworks		\$11,018,555
	Primary Treatment		\$8,320,215
	Secondary Treatment		\$18,056,463
	Disinfection / Discharge		\$13,623,641
	Solids Handling		\$114,521,884
	Pumping / Lift Stations		\$27,878,971
	Stormwater		\$15,287,355
	General Collections		\$70,536,203
	Interceptors		\$40,002,806
	Customer Service		\$140,828
	Bureau		\$30,648,196
	Bureau Indirect		\$30,648,196 \$39,155,608

Consolidated Revenue Requirement Functionalization

Table 7-4 consolidated FY 2024 revenue requirement functionalization. The final revenue requirement of \$389,190,725 matches Line 19 of Table 7-1 and several other preceding tables in this report.

Table 7-4: Consolidated FY 2024 Revenue Requirement Functionalization

Line	Component	Headworks	Primary Treatment	Secondary Treatment	Disinfection / Discharge	Solids Handling	Pumping / Lift Stations	Stormwater	General Collections	Interceptors	Customer Service	Bureau	Indirect	Total
1	O&M Including Execution Factors													
2	O&M Net of Programmatic	\$7,458,510	\$7,377,788	\$17,017,601	\$10,590,026	\$35,197,624	\$17,446,821	\$7,861,024	\$24,373,118	\$0	\$0	\$36,237,828	\$39,211,275	\$202,771,615
3	Programmatic	\$0	\$0	\$0	\$0	\$0	\$0	\$681,000	\$0	\$0	\$0	\$0	\$7,085,551	\$7,766,551
4	Total O&M	\$7,458,510	\$7,377,788	\$17,017,601	\$10,590,026	\$35,197,624	\$17,446,821	\$8,542,024	\$24,373,118	\$0	\$0	\$36,237,828	\$46,296,826	\$210,538,166
5	% of Total	3.5%	3.5%	8.1%	5.0%	16.7%	8.3%	4.1%	11.6%	0.0%	0.0%	17.2%	22.0%	100.0%
6														
7	Capital Costs													
8	Existing Debt Service	\$4,206,626	\$1,386,862	\$1,907,402	\$3,639,684	\$47,842,905	\$5,479,519	\$8,431,608	\$33,328,447	\$11,053	\$0	\$0	\$0	\$106,234,104
9	Proposed Debt Service	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Cash Funded CIP	\$577,931	\$633,720	\$1,545,862	\$996,999	\$32,771,146	\$6,623,861	\$0	\$15,167,421	\$33,602,732	\$118,328	\$0	\$0	\$92,038,000
11	Change in Cash Reserves	\$141,344	\$154,988	\$378,069	\$243,835	\$8,014,793	\$1,619,988	\$0	\$3,709,475	\$8,218,173	\$28,939	\$0	\$0	\$22,509,603
12	Total Capital Costs	\$4,925,901	\$2,175,569	\$3,831,332	\$4,880,517	\$88,628,844	\$13,723,368	\$8,431,608	\$52,205,343	\$41,831,958	\$147,268	\$0	\$0	\$220,781,707
13	% of Total	2.2%	1.0%	1.7%	2.2%	40.1%	6.2%	3.8%	23.6%	18.9%	0.1%	0.0%	0.0%	100.0%
14											h			
15	Gross Revenue Requirement	\$12,384,410	\$9,553,358	\$20,848,933	\$15,470,543	\$123,826,468	\$31,170,189	\$16,973,632	\$76,578,461	\$41,831,958	\$147,268	\$36,237,828	\$46,296,826	\$431,319,873
16	% of Total	2.9%	2.2%	4.8%	3.6%	28.7%	7.2%	3.9%	17.8%	9.7%	0.0%	8.4%	10.7%	100.0%
17														
18	Revenue Requirement Offsets													
19	Other Retail Charges	\$3,069	\$3,036	\$7,003	\$4,358	\$14,484	\$7,180	\$3,515	\$10,030	\$0	\$0	\$14,912	\$19,052	\$86,638
20	Non-Rate Operating Revenues	\$666,566	\$659,352	\$1,520,861	\$946,430	\$3,145,608	\$1,559,221	\$763,400	\$2,178,223	\$0	\$0	\$3,238,571	\$4,137,543	\$18,815,775
21	Programmatic Revenues	\$154,697	\$153,022	\$352,961	\$219,647	\$730,032	\$361,864	\$177,170	\$505,521	\$0	\$0	\$751,607	\$960,240	\$4,366,760
22	Non-Debt Capital Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	Drought Offset	\$541,523	\$417,732	\$911,644	\$676,468	\$5,414,460	\$1,362,954	\$742,192	\$3,348,484	\$1,829,152	\$6,439	\$1,584,542	\$2,024,384	\$18,859,974
24	Total Offsets	\$1,365,855	\$1,233,142	\$2,792,470	\$1,846,902	\$9,304,584	\$3,291,217	\$1,686,277	\$6,042,259	\$1,829,152	\$6,439	\$5,589,632	\$7,141,218	\$42,129,148
25	% of Total	3.2%	2.9%	6.6%	4.4%	22.1%	7.8%	4.0%	14.3%	4.3%	0.0%	13.3%	17.0%	100.0%
26														
27	Net Revenue Requirement	\$11,018,555	\$8,320,215	\$18,056,463	\$13,623,641	\$114,521,884	\$27,878,971	\$15,287,355	\$70,536,203	\$40,002,806	\$140,828	\$30,648,196	\$39,155,608	\$389,190,725
28	% of Total	2.8%	2.1%	4.6%	3.5%	29.4%	7.2%	3.9%	18.1%	10.3%	0.0%	7.9%	10.1%	100.0%

7.4. Sewer Cost Component Allocations

The allocation of costs to cost causation component answers the question, what types of customer demands are met by different functional components of the sewer system? Cost causation components on the SFPUC's sewer system include a flow component for the volume of customer wastewater discharges and for storm runoff generated from properties, as well as strength loading components for COD, TSS, and oil and OG. Considering that SFPUC operates a combined sewer system that treats both wastewater and stormwater, the cost allocations were conducted in two steps.

- First, the split of wet weather to dry weather flows were evaluated; this is the first step of splitting costs between wastewater related expenses and stormwater related costs
- Second, the remaining dry weather related expenses were allocated to cost causation components. This provided the basis for allocating wastewater related expenses to flow and strength cost drivers.

Determination of Wet Weather Flows (Stormwater Flows)

The SFPUC has historically recovered stormwater-related costs through wastewater rates. In this study, a the stormwater related portion of the sewer cost of service has been calculated to enable the bifurcation of the sewer rates into wastewater rates and stormwater charges. To allocate costs between wastewater and stormwater service, the projected volume of dry weather flows (customer wastewater discharges and dry weather infiltration) and stormwater flows must be determined for a "typical" year. The analysis required to determine wet weather flows included the following key steps as shown in Table 7-5 for the period FY 2020 - FY2022:

<u>Identification of Wet Weather Days (Lines 1 - 4)</u>: This reflects the number of days designated as experiencing wet weather flows at the Oceanside Wastewater Treatment Plant (FY 2020 and FY 2022) or the number of days with precipitation in excess of 0.10 inches (FY 2021).

Estimation of Customer and Non-Customer Treatment Plant Influent (Lines 12 - 18): This shows the estimate of customer and non-customer flows to the SFPUC's treatment plants. Approximately 67.4% of influent flows at the wastewater treatment plans are estimated to be associated with customer wastewater discharges (Line 16) and 32.6% of the flows are estimated to be from non-customer sources (Line 17).

Estimation of Non-Customer Wet Weather Flows and Dry Weather Infiltration (Lines 20 - 28): Of the non-customer influent of 32.6% (Line 17), 17.6% is estimated to be from flows on wet weather days and 15.1% is associated with dry weather infiltration (slight discrepancy in addition due to rounding).

<u>Determination of Pure Stormwater Flows (Lines 38 – 48)</u>: This section of the analysis shows the final derivation of the estimate of 10.8% of SFPUC treatment plant influent being associated with "pure" stormwater flows. By definition, this means that 89.2% of all remaining flows are not associated with stormwater.

The outcome of the above analysis indicates that 89.2% of wastewater flows entering the SFPUC's wastewater treatment facilities were dry weather-related and that 10.8% were created by stormwater.

Table 7-5: Estimation of FY 2024 Wet Weather Flows

Non-Customer Flows as a % of Total Plant Influent 100.0% 100	Line	Metric	FY 2019 - 20	FY 20-21	FY 2021 - 22	Average
Based on OSPM Designation 28 08 34		•				
Based on Weather Data > 10" State						
Customer Flows (Retail + Wholesale)						
Customer Flows (Retail + Wholesale)		Based on Weather Data > .10"	31	28	32	
Annual Customer Flows (MG)						
Annual Customer Flows (MG)			24.054.402	24 700 700	24 474 542	22 220 024
Customer Average Daily Flows (MGD)		• •				
Treatment Plant Influent		· · ·				
Treatment Plant Influent Total Annual Plant Influent (MG) Annual Customer Flows (MG) Total Annual Customer Flows (MG) Customer Flows as a % of Total Plant Influent Read Section (MG) Customer Flows as a % of Total Plant Influent Read Section (MG) Total Read Plant Influent Read Section (MG) Total Read Plant Influent Total Read Section (MG) Total Read Sectio		, , ,				
Total Annual Plant Influent (MG)		Customer Flows on wet weather days (MGD)	1,380.4	1,249.1	1,4/5.3	1,308
Annual Customer Flows (MG) 17,994 16,283 15,837 16,705	12	Treatment Plant Influent				
Total Non-Customer Flows (MG)	13	Total Annual Plant Influent (MG)	26,222	23,170	25,002	24,798
Customer Flows as a % of Total Plant Influent St. 66.6% 70.3% 63.3% 67.4% Non-Customer Flows as a % of Total Plant Influent 31.4% 29.7% 36.7% 32.6	14	Annual Customer Flows (MG)	17,994	16,283	15,837	16,705
Non-Customer Flows as a % of Total Plant Influent 100.0% 100	15	Total Non-Customer Flows (MG)	8,227.9	6,887.6	9,164.3	8,093
Total Influent 100.0% 1	16	Customer Flows as a % of Total Plant Influent	68.6%	70.3%	63.3%	67.4%
Wet Weather Flow 21 Annual Wet Weather Flow (MG) 3,216 3,694 6,148 4,353 22 Wet Weather Flows as a % of Total Annual Plant Influent 12.3% 15.9% 24.6% 17.6% 23 Dry Weather Infiltration 5,012.3 3,193.3 3,016.7 3,741 26 Daily Dry Weather Infiltration (MGD) 13.73 8.75 8.26 10.25 27 Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 28 Dry Weather Infiltration as a % of Total Annual Plant Influent 19.1% 13.8% 12.19 15.1% 29 Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale) 3,215.6 3,694.3 6,147.7 4,352.5 21 Less: Gustomer Flows on Wet Weather Days (MG) 1,380.4 1,249.1 1,475.3 1,362.5 22 Less: Gustomer Flows on Wet Weather Plows 42.9% 33.8% 24.0% 31.4% 34 % Customer Portion of Wet Weather Flows 10.0% 100.0% 100.0% 100.0% 100.0%	17	Non-Customer Flows as a % of Total Plant Influent	31.4%	29.7%	36.7%	32.6%
Wet Weather Flow Annual Wet Weather Flow (MG) 3,216 3,694 6,148 4,353		Total Influent	100.0%	100.0%	100.0%	100.0%
Annual Wet Weather Flow (MG) 3,216 3,694 6,148 4,353		Wet Weather Flow				
Dry Weather Infiltration			3,216	3,694	6,148	4,353
24 Dry Weather Infiltration 5,012.3 3,193.3 3,016.7 3,741 25 Dry Weather Infiltration (MGD) 13.73 8.75 8.26 10.25 27 Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 28 Dry Weather Infiltration as a % of Total Annual Plant Influent 19.1% 13.8% 12.1% 15.1% 29 Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale) 31 Annual Wet Weather Flow (MG) 3,215.6 3,694.3 6,147.7 4,352.5 32 Less: Customer Flows on Wet Weather Days (MG) 1,380.4 1,249.1 1,475.3 1,368.2 33 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 34 % Customer Portion of Wet Weather Flows 57.1% 66.2% 76.0% 68.6% 36 Total Wet Weather Plows 100.0% 100.0% 100.0% 100.0% 37 Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) 1,835.3 2,445.2 4,672		Wet Weather Flows as a % of Total Annual Plant Influent		100		17.6%
24 Dry Weather Infiltration 5,012.3 3,193.3 3,016.7 3,741 25 Dry Weather Infiltration (MGD) 13.73 8.75 8.26 10.25 27 Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 28 Dry Weather Infiltration as a % of Total Annual Plant Influent 19.1% 13.8% 12.1% 15.1% 29 Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale) 31 Annual Wet Weather Flow (MG) 3,215.6 3,694.3 6,147.7 4,352.5 32 Less: Customer Flows on Wet Weather Days (MG) 1,380.4 1,249.1 1,475.3 1,368.2 33 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 34 % Customer Portion of Wet Weather Flows 57.1% 66.2% 76.0% 68.6% 36 Total Wet Weather Plows 100.0% 100.0% 100.0% 100.0% 37 Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) 1,835.3 2,445.2 4,672	23					
25 Dry Weather Infiltration (MG) 5,012.3 3,193.3 3,016.7 3,741 26 Daily Dry Weather Infiltration (MGD) 13.73 8.75 8.26 10.25 27 Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 28 Dry Weather Infiltration as a % of Total Annual Plant Influent 19.1% 13.8% 12.1% 15.1% 29 Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale) 3,215.6 3,694.3 6,147.7 4,352.5 31 Annual Wet Weather Plays (MG) 1,380.4 1,249.1 1,475.3 1,368.2 32 Less: Customer Flows on Wet Weather Days (MG) 1,885.3 2,445.2 4,672.4 2,984.3 34 % Customer Portion of Wet Weather Flows 42.9% 33.8% 24.0% 31.4% 35 % Non-Customer Portion of Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 24.672.4 2,984.3 100.0% 100.0% <td< td=""><td></td><td>Dry Weather Infiltration</td><td></td><td></td><td></td><td></td></td<>		Dry Weather Infiltration				
Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5	25	·	5,012.3	3,193.3	3,016.7	3,741
Dry Weather Infiltration as a % of Total Annual Plant Influent 19.1% 13.8% 12.1% 15.1% 12.1% 15.1% 12.1% 15.1% 12.1% 15.1% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 12.1% 13.8% 13.	26	Daily Dry Weather Infiltration (MGD)	13.73	8.75	8.26	10.25
Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale) Annual Wet Weather Flow (MG) Less: Customer Flows on Wet Weather Days (MG) Roustomer Portion of Wet Weather Flows Non-Customer Portion of Wet Weather Flows Non-Customer Portion of Wet Weather Infiltration Pure SW Flows (Flows Net of Customers (MG) Less: Dry Weather Infiltration on Wet Weather Days (MG) Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) Flows on Wet Weather Days Excluding Customers (MG) Non-Customer Portion of Wet Weather Flows Non-Customer Portion of Wet Weather Flows Non-Customer Portion of Wet Weather Infiltration) Flows on Wet Weather Days Excluding Customers (MG) Less: Dry Weather Infiltration on Wet Weather Days (MG) Non-Customer Portion on Wet Weather Days (MG) Non-Customer Portion on Wet Weather Days (MG) Non-Customer Portion on Wet Weather Poays Non-Customer Portion of Wet Weather Flows Non-Customer Portion on Wet Weather Flows Non-Customer Portion on Wet Weather Flows Customer Flows on Wet Weather Days as a % of Total Plant Influent Dry Weather Infiltration on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather Days as a % of Total Plant Influent Non-Customer Flows on Wet Weather	27	Dry Weather Infiltration on Wet Weather Days (MG)	384.5	245.0	281.0	303.5
Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale) 31		Dry Weather Infiltration as a % of Total Annual Plant Influent	19.1%	13.8%	12.1%	15.1%
31 Annual Wet Weather Flow (MG) 3,215.6 3,694.3 6,147.7 4,352.5 32 Less: Customer Flows on Wet Weather Days (MG) 1,380.4 1,249.1 1,475.3 1,368.2 33 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 34 % Customer Portion of Wet Weather Flows 42.9% 33.8% 24.0% 31.4% 35 % Non-Customer Portion of Wet Weather Flows 57.1% 66.2% 76.0% 68.6% 36 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 100.0% 37 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8%		Flows on Wet Weather Days Excluding Customer Flows (Retail + Wholesale)				
32 Less: Customer Flows on Wet Weather Days (MG) 1,380.4 1,249.1 1,475.3 1,386.2 33 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 34 % Customer Portion of Wet Weather Flows 42.9% 33.8% 24.0% 31.4% 35 % Non-Customer Portion of Wet Weather Flows 57.1% 66.2% 76.0% 68.6% 36 Total Wet Weather Flows 100.0% <			3 215 6	3 694 3	6 147 7	4 352 5
Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3				· ·	•	•
34 % Customer Portion of Wet Weather Flows 42.9% 33.8% 24.0% 31.4% 35 % Non-Customer Portion of Wet Weather Flows 57.1% 66.2% 76.0% 68.6% 36 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 37 Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) 39 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 46			•			
35 % Non-Customer Portion of Wet Weather Flows 57.1% 66.2% 76.0% 68.6% 36 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 37 Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) 39 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 46 Customer Flows on Wet Weather Days as a % of Total Plant Influent 1.5%<		, , ,	•	· ·	•	•
Total Wet Weather Flows 100.0%						
Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) 39 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 46 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%						100.0%
Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration) 39 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%						
39 Flows on Wet Weather Days Excluding Customers (MG) 1,835.3 2,445.2 4,672.4 2,984.3 40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 46 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%		Pure SW Flows (Flows Net of Customers and Dry Weather Infiltration)				
40 Less: Dry Weather Infiltration on Wet Weather Days (MG) 384.5 245.0 281.0 303.5 41 Total Stormwater Flows on Wet Weather Days (MG) 1,450.8 2,200.3 4,391.4 2,680.8 42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 46 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%			1,835.3	2,445.2	4,672.4	2,984.3
42 % Dry Weather Infiltration on Wet Weather Days 21.0% 10.0% 6.0% 10.2% 43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 46 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%	40		384.5	245.0	281.0	303.5
43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%	41	Total Stormwater Flows on Wet Weather Days (MG)	1,450.8	2,200.3	4,391.4	2,680.8
43 % Non-Customer Portion of Wet Weather Flows 79.0% 90.0% 94.0% 89.8% 44 Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 45 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 47 Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%	42	% Dry Weather Infiltration on Wet Weather Days	•	· ·	•	10.2%
Total Wet Weather Flows 100.0% 100.0% 100.0% 100.0% 100.0% 45 Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% 5.9% Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%						89.8%
Customer Flows on Wet Weather Days as a % of Total Plant Influent 5.3% 5.4% 5.9% 5.5% Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.1% 1.2%		Total Wet Weather Flows				100.0%
Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.2%	45					
Dry Weather Infiltration on Wet Weather Days as a % of Total Plan Influent 1.5% 1.1% 1.2%	46	Customer Flows on Wet Weather Days as a % of Total Plant Influent	5.3%	5.4%	5.9%	5.5%
Pure Stormwater Flows as a % of Treatment Plant Influent (Note 1) 5.5% 9.5% 17.6% 10.8%	47		1.5%	1.1%	1.1%	1.2%
	48	Pure Stormwater Flows as a % of Treatment Plant Influent (Note 1)	5.5%	9.5%	17.6%	10.8%

Note 1: 10.8% equals Total Stormwater Flows on Wet Weather Days from Line 41 / Total Annual Treatment Plant Influent from Line 13. Specifically, 2,680.8 MG / 24m798 MG = 10.8%

Allocation to Cost Causation Components

The wastewater utility industry typically uses one of two basic cost-allocation approaches when allocating wastewater costs to cost components (i.e. Wet Weather Flow, Dry Weather Flow, COD, TSS, and fats, oil,

and grease, or OG). These are the Design-basis Cost-allocation Method and the Functional Cost-allocation Method ¹⁴

The Design-basis Cost-allocation Method (sometimes called the Capital Cost Allocation Method) is used in this study to proportionally allocate capital costs based on industry "Best Practice' design standards for each functional area to cost components based on the relative costs borne by the utility to construct or repair capital assets. The Functional Cost-allocation Method (sometimes called the Operation and Maintenance Cost Allocation Method) allocates O&M costs (power, labor, chemicals, and supplies) based on the use of these in removing pollutants of concern. Both methodologies are commonly used and are used for this cost allocation.

The following is a description of how these two methods are used together to allocate the capital and O&M costs for the primary treatment facilities as an example.

For the capital costs, the primary tanks are designed to hold flow long enough for solids to settle. The tanks are sized to hold this flow. Since roughly 75% of capital cost for primary treatment is typically attributed to the tanks, a 75% allocation is given to flow. The purpose of the primary tanks is to settle out and skim off the solids (i.e. TSS, and OG). Therefore, the costs for the rakes and skimmers and associated sludge pumps can be attributable to strength. Costs for the racks/skimmers/sludge pumps are typically 20% of the total capital cost of the primary tanks. The primary tanks at both the Southeast Plant and the Oceanside Plant are covered to contain odors. An odor control system treats the air emissions associated with the COD and OG strength components. Roughly 5% of the total primary treatment capital cost can be attributed to covering the primary tanks. Therefore, 2% and 3% percent allocation is given to COD and OG, respectively. Further, primary tanks are typically sized to accommodate peak wet weather flows. In the SFPUC system, peak wet weather flows get dampened in the SFPUC's unique Transport/Storage system. Therefore, the wet weather flows are estimated to add approximately 13% the capital expenditures.

The O&M functions of the treatment process are the basis of allocation of the O&M costs. So, while the Design-basis Cost-allocation Method is used for capital costs, the Functional Cost-allocation Method is used for O&M costs. The O&M costs for the primary process include electrical power for sludge raking (TSS) and primary sludge pumping (TSS), chemical addition (TSS), and chemical and electrical use for the odor control facilities (COD). Related operational costs for flow include the operation and maintenance of the gates and valves and associated SCADA and control system. The cost percentages are estimated to be 55% TSS, 5% COD, and 40% to flow. Therefore, the cost percentages attributed to each are based on O&M costs associated with each operational cost. Finally, historically recorded wet weather and dry weather daily average flows are used to allocate the flow component of the O&M costs between wet and dry weather in this analysis.

In summary, as illustrated in the above example, the overall approach taken in assessing the percentages allocated to flow and strength components are assessed using engineering best professional judgement, relying on industry Best Practices. Industry Best Practice of design criteria are well documented in wastewater

¹⁴ Reference: Financing and Charges for Wastewater Systems, Water Environment Federation Manual of Practice, No. 27 4th Edition, 2018.

treatment plant design textbooks¹⁵. In addition, in absence of specific expenditure information such as historical capital cost expenditures dating back to the inception of each of the San Francisco treatment plants, the values presented here are based on best professional judgement considering both industry expenditure trends and site-specific attributes at each of the San Francisco treatment plants. Although there is always a range of costs and design criteria when comparing treatment plants (i.e. one could point to another treatment plant where percentages differ than what is presented here), the percentages presented here are representative of industry norms while also considering site-specific attributes.

A summary of the Functional Cost-allocation method was used to allocate the FY 2024 O&M revenue requirements to cost causation components as presented in Table 7-7. A summary of the Design-basis Cost-allocation Method is used to allocate the FY 2024 capital cost revenue requirements to cost causation components as presented in Table 7-8. A summary of the allocation of non-rate revenue offsets to cost causation components is presented in Table 7-9. The underlying rationale for the allocation shown in Table 7-7, Table 7-8, and Table 7-9 are as follows:

Headworks

The Headworks is the first treatment process in the wastewater treatment plant, The Headworks has several treatment functions. These include screening rags and large debris, flow metering, and typically influent pumping. Following the Design-basis Cost-allocation Method for capital cost allocations, the Headworks are designed to accommodate all influent flow. The percentage allocated to flow reflects the capital expenditures for accommodating flow. Headworks system components such as bar screens and grit collection facilities are TSS based, so this proportionate share of the cost allocation of the headworks is appropriately based on TSS. The Headworks also includes odor controls, as this is where the odors and hazardous air emissions are first released in the treatment process. Here, odor control treats COD and OG strength components. These percentages reflect the expected capital expenditures spent on each component at the Headworks. A similar breakdown can be expected of the O&M expenditures.

The Headworks are sized to accommodate peak wet weather flows. Further, the SFPUC headworks includes back-up pumps in case of pump failure. These pumps also process wet weather flows. Again, absent the capital costs expended specifically on these attributes, the estimated portion attributed to wet weather is roughly 10% (or 8% of the total allocation). Historical wet weather and dry weather flow splits are used to allocate the flow component of the O&M costs between them using the Functional Cost-allocation Method.

Primary Treatment (See above for additional discussion)

After sewer flows are screened in the headworks facility, they go through primary treatment, where suspended solids and organic matter are removed through settling and floating to the top and being skimmed off. As previously discussed in the example, flows determine overall sizing and volume of the primary settling tanks because the tanks must be sized large enough to provide time to settle out the suspended solids. Therefore, flow is given a high capital cost allocation. Upsizing to accommodate wet weather capacity is reflected in the allocation for wet weather flow.

Secondary Treatment:

¹⁵ As can be found in, for example; 1) *Design of Municipal Wastewater Treatment Plants*, 5th Edition, Joint Publication: Water Environment Foundations (WEF), Manual of Practice (MOP) No.8, 2) ASCE *Manuals and Reports on Engineering Practice* No.76., and 3) *Wastewater Engineering Treatment and Resource Recovery*, 5th Edition, Metcalf & Eddy | AECOM, McGraw-Hill, 2014.

Secondary treatment is where biodegradable organic matter is removed, and requires aeration of the flow in one set of basins followed by a second set of clarifications basins to settle out biomass. The secondary process is designed to meet the plant's discharge requirements for TSS and COD removal. Both the secondary treatment process at the Southeast Wastewater Treatment Plant (SEP) and at the Oceanside Wastewater Treatment Plant are High Purity Oxygen Activated Sludge (HPOAS) processes. Both plants have conventional aeration basins (pure-oxygen) followed by final clarifiers.

The key design criteria for the secondary process at both the SEP and OSP is sufficient detention time (flow) and oxygen concentration in the reactor (COD), and having the operational flexibility to handle a wide range of flow and loading conditions. The percentage reflects investments in equipment and facilities to operate using step-feed, selectors, and a pure oxygen supply system. The secondary clarifiers are also included in the secondary treatment unit operation. They are designed primarily based on flow and TSS to settle out the mixed liquor, and for sizing of the secondary sludge pumping for the waste activated sludge and return activated sludge. For both the capital cost and O&M cost allocation for the secondary process, including the aeration basins and the clarifiers, the percentages of 25 percent to flow, and 75 percent to strength (including 70 percent to COD, 3 percent to TSS, and 2 percent to OG (scum)) are based on the estimated capital and O&M costs associated with each.

Solids Handling/Digesters

Solids that are settled from both the primary and secondary clarifiers are treated in the digester and solids handling facilities. Both the Oceanside Plant and the Southeast Treatment Plant use sludge digestion to process the solids. The Southeast Treatment Plant has recently completed a major rebuild of the solids handling and digestion process and implemented a new state-of-the-art thermal hydrolysis process (CAMBI Process). The Oceanside Plant also has digesters. The overall solids handling system includes primary and secondary sludge thickening, CAMBI Digestion Process, Conventional Anaerobic Digestion (OSP), Sludge Dewatering, Truck Transfer Station, and Trucking. These facilities all are designed based solely the solids loadings as measured by COD, TSS, and OG. The solids handling facilities are not significantly impacted by wastewater flow.

Therefore, the capital cost allocation using the Design-basis for the solids handling/digesters is 100 percent to strength. The O&M cost allocations using the Functional-basis is also 100 percent to strength. The percentages of 55% COD, 45% TSS, and 5% OG reflect the proportion that can typically be assigned to capital and O&M cost expenditures.

Disinfection and Effluent Discharge

Disinfection is the final treatment step before discharging the treated water into receiving waters, or in the case of the Southeast Treatment Plant, San Francisco Bay. Ultraviolet light (UV) disinfection is used at the Southeast Treatment plant. The Oceanside Treatment Plant does not disinfect. Average day monthly flows are the parameter for determining the size of UV system to achieve the required contact time. The hypochlorite feed system handles peak wet weather flows. Therefore, the cost allocations are attributed 100% to flow, with a portion of 20% attributed to accommodating wet weather flows.

Pumping/Lift Stations

Lift and pumping stations move water from one area to another. Sizing and design are based solely on flow. Added capacity costs are based on the design 5-year wet weather events. Therefore, flows are the basis for allocation costs for pumping/lift stations, with a portion 20% allocation to wet weather flows.

Collection System

The collection system is a system of underground pipes that move sewage to the headworks of the treatment plants. In addition, in San Francisco, the collection system also collects wet weather stormwater flows. Design of collection system is based on peak flow conditions including consideration for rainfall-induced infiltration and inflow (RDI/I). An incremental cost is associated with upsizing for accommodating wet weather flows.

Using the Functional-Basis for allocation of the O&M costs, rags and OG are the primary O&M expense for the collections system. That includes eliminating roots and rag and grease build-up in order to keep the wastewater flowing freely in the collection system. This is a large O&M expense with regard to the collection system and has been allocated to reflect the estimated O&M costs associated with this.

Interceptors

San Francisco collects both dry weather and wet weather flows. Large interceptors (Transport/Storage Boxes) have been built to accommodate wet weather flows, although they still transport dry weather flows. Therefore, the percent allocation for the interceptors is 100% flow, with the allocation proportions reflecting the estimated wet and dry weather expenditure split.

Table 7-6: Allocation of FY 2024 O&M to Cost Causation Components

Line	Category	Flow (Dry)	Flow (Wet)	Flow (Total)	COD	TSS	o/G	Customer Service	Admin.	Total
1	Percent Allocations									
2	Headworks	74.0%	9.0%	83.0%	2.0%	14.0%	1.0%			100.0%
3	Primary Treatment	35.7%	4.3%	40.0%	0.0%	55.0%	5.0%			100.0%
4	Secondary Treatment	22.3%	2.7%	25.0%	70.0%	3.0%	2.0%			100.0%
5	Disinfection / Discharge	89.2%	10.8%	100.0%	400					100.0%
6	Solids Handling	0.0%	0.0%	0.0%	55.0%	40.0%	5.0%			100.0%
7	Pumping / Lift Stations	89.2%	10.8%	100.0%						100.0%
8	Stormwater		100.0%	100.0%						100.0%
9	General Collections	44.6%	5.4%	50.0%		20.0%	20.0%	10.0%		100.0%
10	Interceptors	89.2%	10.8%	100.0%						100.0%
11	Customer Service	0.0%	0.0%	0.0%			1	100.0%		100.0%
12	Bureau	0.0%	0.0%	0.0%					100.0%	100.0%
13	Indirect	89.2%	10.8%	100.0%						100.0%
14										
15	O&M Costs									
16	Headworks	\$5,521,326	\$669,237	\$6,190,563	\$149,170	\$1,044,191	\$74,585			\$7,458,510
17	Primary Treatment	\$2,632,082	\$319,033	\$2,951,115		\$4,057,784	\$368,889			\$7,377,788
18	Secondary Treatment	\$3,794,474	\$459,926	\$4,254,400	\$11,912,320	\$510,528	\$340,352			\$17,017,601
19	Disinfection / Discharge	\$9,445,181	\$1,144,845	\$10,590,026						\$10,590,026
20	Solids Handling				\$19,358,693	\$14,079,050	\$1,759,881			\$35,197,624
21	Pumping / Lift Stations	\$15,560,716	\$1,886,105	\$17,446,821						\$17,446,821
22	Stormwater		\$8,542,024	\$8,542,024						\$8,542,024
23	General Collections	\$10,869,120	\$1,317,440	\$12,186,559		\$4,874,624	\$4,874,624	\$2,437,312		\$24,373,118
24	Bureau								\$36,237,828	\$36,237,828
25	Indirect	\$41,291,864	\$5,004,962	\$46,296,826						\$46,296,826
26	Total	\$89,114,763	\$19,343,571	\$108,458,335		\$24,566,176			\$36,237,828	\$210,538,166
27	Percentage of Total	42.3%	9.2%	51.5%	14.9%	11.7%	3.5%	1.2%	17.2%	100.0%

Table 7-7: Summary of FY 2024 Capital Costs to Cost Causation Components

Line	Category	Flow (Dry)	Flow (Wet)	Flow (Total)	COD	TSS	O/G	Customer Service	Admin.	Total
1	Percent Allocations									
2	Headworks	75.0%	8.0%	83.0%	2.0%	14.0%	1.0%			100.0%
3	Primary Treatment	65.0%	10.0%	75.0%	2.0%	20.0%	3.0%			100.0%
4	Secondary Treatment	25.0%	0.0%	25.0%	70.0%	3.0%	2.0%			100.0%
5	Disinfection / Discharge	80.0%	20.0%	100.0%						100.0%
6	Solids Handling / Digestors				55.0%	40.0%	5.0%			100.0%
7	Pumping / Lift Stations	80.0%	20.0%	100.0%						100.0%
8	Stormwater		100.0%	100.0%						100.0%
9	General Collections	80.0%	20.0%	100.0%						100.0%
10	Interceptors	30.0%	70.0%	100.0%						100.0%
11	Customer Service							100.0%		100.0%
12	Indirect								100.0%	100.0%
13										
14	Cash-Funded Capital Costs									
15	Headworks	\$3,694,425	\$394,072	\$4,088,497	\$98,518	\$689,626	\$49,259			\$4,925,901
16	Primary Treatment	\$1,414,120	\$217,557	\$1,631,677	\$43,511	\$435,114	\$65,267			\$2,175,569
17	Secondary Treatment	\$957,833		\$957,833	\$2,681,933	\$114,940	\$76,627			\$3,831,332
18	Disinfection / Discharge	\$3,904,414	\$976,103	\$4,880,517						\$4,880,517
19	Solids Handling / Digestors				\$48,745,864	\$35,451,538	\$4,431,442			\$88,628,844
20	Pumping / Lift Stations	\$10,978,694	\$2,744,674	\$13,723,368						\$13,723,368
21	Stormwater		\$8,431,608	\$8,431,608						\$8,431,608
22	General Collections	\$41,764,274	\$10,441,069	\$52,205,343						\$52,205,343
23	Interceptors	\$12,549,587	\$29,282,371	\$41,831,958						\$41,831,958
24	Customer Service							\$147,268		\$147,268
25	Total	\$75,263,348			\$51,569,826	\$36,691,218	\$4,622,595	\$147,268		\$220,781,707
26	Percentage of Total	34.1%	23.8%	57.9%	23.4%	16.6%	2.1%	0.1%	0.0%	100.0%

Table 7-8: Allocation of FY 2024 Non-Rate Revenue Offsets to Cost Causation Components

Line	Category	Flow (Dry)	Flow (Wet)	Flow (Total)	COD	TSS	O/G	Customer Service	Admin.	Total
1	Percent Allocations									
2	Headworks	74.0%	9.0%	83.0%	2.0%	14.0%	1.0%			100.0%
3	Primary Treatment	66.9%	8.1%	75.0%	2.0%	20.0%	3.0%			100.0%
4	Secondary Treatment	22.3%	2.7%	25.0%	70.0%	3.0%	2.0%			100.0%
5	Disinfection / Discharge	89.2%	10.8%	100.0%						100.0%
6	Solids Handling				55.0%	40.0%	5.0%			100.0%
7	Pumping / Lift Stations	89.2%	10.8%	100.0%						100.0%
8	Stormwater		100.0%	100.0%						100.0%
9	General Collections	89.2%	10.8%	100.0%						100.0%
10	Interceptors	89.2%	10.8%	100.0%						100.0%
11	Customer Service							100.0%		100.0%
12	Bureau)	100.0%	100.0%
13	Indirect	89.2%	10.8%	100.0%						100.0%
14										
15	Non-Rate Revenue Offsets									
16	Headworks	\$1,011,104	\$122,555	\$1,133,660	\$27,317	\$191,220	\$13,659			\$1,365,855
17	Primary Treatment	\$824,874	\$99,983	\$924,857	\$24,663	\$246,628	\$36,994			\$1,233,142
18	Secondary Treatment	\$622,647	\$75,471	\$698,117	\$1,954,729	\$83,774	\$55,849			\$2,792,470
19	Disinfection / Discharge	\$1,647,241	\$199,661	\$1,846,902						\$1,846,902
20	Solids Handling				\$5,117,521	\$3,721,834	\$465,229			\$9,304,584
21	Pumping / Lift Stations	\$2,935,417	\$355,800	\$3,291,217						\$3,291,217
22	Stormwater		\$1,686,277	\$1,686,277						\$1,686,277
23	General Collections	\$5,389,055	\$653,204	\$6,042,259						\$6,042,259
24	Interceptors	\$1,631,410	\$197,742	\$1,829,152						\$1,829,152
25	Customer Service							\$6,439		\$6,439
26	Bureau								\$5,589,632	\$5,589,632
27	Indirect	\$6,369,210	\$772,008	\$7,141,218						\$7,141,218
28	Total	\$20,430,958	\$4,162,701	\$24,593,659	\$7,124,230	\$4,243,456	\$571,731	\$6,439	\$5,589,632	\$42,129,148
	Percantage of Total	83.1%	16.9%	58.4%	16.9%	10.1%	1.4%	0.0%	13.3%	100.0%

Consolidated Revenue Requirement Allocation to Cost Causation Components

Table 7-9 summarizes the information provided in Table 7-6,

Table 7-7, and Table 7-8 into a single consolidated FY 2024 revenue requirement allocation to cost causation components. The final revenue requirement of \$389,190,725 matches Line 27 of Table 7-4 and several other preceding tables in this report.



Table 7-9: Consolidated FY 2024 Rate Revenue Requirement Allocation to Cost Causation Components

Line	Cost Component	Flow (Dry)	Flow (Wet)	Flow (Total)	COD	TSS	O/G	Customer Svc.	Admin.	Total
1	0&M	\$89,114,763	\$19,343,571	\$108,458,335	\$31,420,184	\$24,566,176	\$7,418,331	\$2,437,312	\$36,237,828	\$210,538,166
2		82%	18%	52%	15%	12%	4%	1%	17%	100%
3										
4	Capital Costs	\$75,263,348	\$52,487,453	\$127,750,801	\$51,569,826	\$36,691,218	\$4,622,595	\$147,268	\$0	\$220,781,707
5		59%	41%	58%	23%	17%	2%	0%	0%	100%
6										
7	Gross Revenue Requirement	\$164,378,111	\$71,831,024	\$236,209,135	\$82,990,010	\$61,257,394	\$12,040,926	\$2,584,579	\$36,237,828	\$431,319,873
8		38%	17%	55%	19%	14%	3%	1%	8%	100%
9										
10	Non-Rate Revenue Offsets	\$20,430,958	\$4,162,701	\$24,593,659	\$7,124,230	\$4,243,456	\$571,731	\$6,439	\$5,589,632	\$42,129,148
11		83%	17%	58%	17%	10%	1%	0%	13%	100%
12										
13	Net Revenue Requirement	\$143,947,153	\$67,668,323	\$211,615,476	\$75,865,780	\$57,013,938	\$11,469,195	\$2,578,140	\$30,648,196	\$389,190,725
14	Percentage of Total	68%	32%	54%	19%	15%	3%	1%	8%	100%

7.5. Sewer Unit COS Development

Customer Contributed Units of Service

The units of service are used in the allocation of costs to customer classes and the eventual determination of proposed FY 2024 rates and charges as part of the rate design process. This process involves developing estimates, in consultation with SFPUC staff, of the projected FY 2024 contributed units of service (i.e., customer wastewater discharges flowing to the treatment plants), billed units of service, return flows, strength loadings, and infiltration volumes, originally shown in Table 6-4 through Table 6-8. Table 7-10 shows the volume and strength loading inputs used to determine the units of service for FY 2024. Key points of Table 7-10 include:

<u>Projected Flow (Column C)</u>: The SFPUC's wastewater billing system calculates the projected flow volumes shown in column C of Table 7-10 by applying a return flow factor to each customer's billed water consumption. Therefore, the projected flow volumes shown in column C include return flow adjustment made by the billing system. The return flow factor assumed for Single Family Residential is 90% and Multifamily Residential customers is 95%. The return flow factors for non-residential customers are based on the SIC Code assigned to each customer in the billing system.

<u>Weighted Average Strength Loadings (Column D-F)</u>: The concentration (mg/L) of the strength loadings shown in columns D, E, and F reflected the aggregate weighted average of each customer type (e.g., Single Family Residential, Municipal, Nonresidential/Commercial) based on their strength loading assignment (see Wastewater Strength Loading Groups).

<u>Wet Weather Flows (Line 13)</u>: The strength loading of wet weather flows shown on Line 13 were estimated based on an analysis of treatment plant influent data for the three-year period FY 2020 - FY 2022.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
Line	Description	% of Treatment	Projected Flow	Wtd Avg.	Wtd. Avg.	Wtd. Avg	Est. COD	Est. TSS	Est. O/G
Lille	Description	Effluent	(CCF)	COD (mg/L)	TSS (mg/L)	O/G (mg/L)	Pounds	Pounds	Pounds
1	Customer Contributions								
2	Single Family Residential		5,745,781	566	258	34	24,534,916	10,007,662	3,048,930
3	Multifamily Residential		9,720,649	780	333	35	41,507,991	16,930,858	5,158,178
4	Municipal		502,612	308	152	17	2,150,964	875,535	268,434
5	Nonresidential/Commercial		5,747,608	407	134	27	25,004,030	8,732,452	3,434,081
6	Fire		28,194	0	0	0			
7	Municipal Fire		580	604	271	33			
8	Total Billed Retail		21,745,424	2,665	1,147	145	93,197,901	36,546,507	11,909,623
9									
10	Wholesale		138,860	687	269	88	595,137	233,376	76,052
11									
12	Non-Customer Flows								
13	Wet Weather Flows	17.6%	5,849,076	284	101	10	10,365,927	3,699,771	379,531
14	Dry Weather Infiltration	15.1%	5,026,950	0	0	0	0	0	0
15	Total Non-Customer	32.6%	10,876,027	284	101	10	10,365,927	3,699,771	379,531
16									
17	Estimated Customer and Non-Cus	tomer Contributions	32,760,311	510	198	60	104,158,964	40,479,654	12,365,206

Table 7-10: Summary FY 2024 Units of Service

Allocation of Dry Weather Infiltration to Customer Units of Service

After determining the test year units of service summarized in Table 7-10, the next step in the COS process is to determine how dry weather infiltration volumes and their associated strength loadings should be allocated to each customer class.

There is no industry standard approach for the allocation of infiltration in every situation. Methods for allocating infiltration to customer classes range from relying entirely on the proportionate share of contributed volume from each customer class (100% volume) to relying entirely on the proportionate share of customer accounts/wastewater service connections (100% accounts). For this study, 25% of dry weather infiltration volumes were allocated based on customer accounts and 75% of dry weather infiltration volumes were allocated based on customer volumes.

Table 7-11 shows a summary of the allocation of dry weather infiltration to each wastewater customer class. Note that no strength loadings were assigned to dry weather infiltration volumes (see Line 14 of Table 7-10). This is because there was no data available to appropriately assign dry weather infiltration strength loadings. Therefore, there is no change in the pounds of COD, TSS, or OG allocated to each customer class due to dry weather infiltration.

Table 7-11: Allocation of Dry Weather Infiltration to Customer Accounts

Line	Dry Weather Infiltration	Dry Weather Flow (CCF)	Allocation on Flow	Allocation on Accounts	Sum of Allocations
1	Flow (HCF)	5,026,950	3,770,213	1,256,738	5,026,950
2	Est. COD Pounds	0	0	0	0
3	Est. TSS Pounds	0	0	0	0
4	Est. O/G Pounds	0	0	0	0
5	Total Pounds	0	0	0	0
6					
7	Before Allocation of Dry Weather	Flow (CCF)	Est. COD Pounds	Est. TSS	Est. O/G
8	Single Family Residential	5,745,781	24,534,916	10,007,662	3,048,930
9	Multifamily Residential	9,720,649	41,507,991	16,930,858	5,158,178
10	Municipal	502,612	2,125,773	840,158	231,016
11	Nonresidential/Commercial	5,747,608	26,119,805	8,543,674	3,336,919
12	Fire	28,194	0	0	0
13	Municipal Fire	580	0	0	0
14	Total	21,745,424	94,288,484	36,322,352	11,775,042
15					
16	After Allocation of Dry Weather Infiltration	Flow (CCF)	Est. COD Pounds	Est. TSS	Est. O/G
17	Single Family Residential	7,547,512	24,534,916	10,007,662	3,048,930
18	Multifamily Residential	11,668,893	41,507,991	16,930,858	5,158,178
19	Municipal	595,502	2,125,773	840,158	231,016
20	Nonresidential/Commercial	6,853,641	26,119,805	8,543,674	3,336,919
21	Fire	103,592	0	0	0
22	Municipal Fire	3,235	0	0	0
23	Total	26,772,375	94,288,484	36,322,352	11,775,042

7.6. Sewer Customer Class Revenue Requirements

As discussed previously in Section 7.2, the total FY 2024 revenue requirement for the Wastewater Enterprise is \$389,190,725. The calculated wastewater service-related costs is \$301,185,528 or 77.5% of the total. The calculated stormwater service-related costs is \$87,719,197 or 22.5% of the total. This report section discusses the derivation of these service-related costs and the specific revenue requirement for each wastewater customer class.

Unit Cost of Service Calculation

Having established the units of service for each customer class (Table 7-11), the next step in the wastewater COS process is to calculate the revenue requirement for each customer class. To allocate costs to customer classes, a unit COS is calculated for each cost causation component.

A starting point in the unit COS calculation process is to summarize the allocated FY 2024 COS as shown in Table 7-12. Administrative costs totaling \$30,648,196 were identified in the process of assigning costs to functions. These costs were allocated to each cost causation component as shown in Line 8. The total allocated revenue requirement sums to \$389,190,725 (line 4 and line 7) which matches the overall rate revenue requirement developed in the financial plan and shown in several proceeding tables.

Flow (HCF) Strength (Pounds) Flow (Dry) Line **COS Component** Flow (Total) COD TSS O/G Admin. Total Flow (Wet) Service \$108,458,335 \$89,114,763 \$19,343,571 \$31,420,184 \$24,566,176 \$7,418,331 \$36,237,828 0&M \$2,437,312 \$210,538,166 1 Capital \$127,750,801 \$75,263,348 \$52,487,453 \$51,569,826 \$36,691,218 \$4,622,595 \$147,268 \$0 \$220,781,707 Less: Non-Rate Revenue Offsets \$24.593.659 \$20,430,958 \$4,162,701 \$7,124,230 \$4,243,456 \$571,731 \$6,439 \$5.589.632 \$42,129,148 Subtotal Before Allocation of Admin. \$211,615,476 \$143,947,153 \$67,668,323 \$75,865,780 \$57,013,938 \$11,469,195 \$2,578,140 \$30,648,196 \$389,190,725 \$5,784,285 \$6,485,003 \$18,088,879 \$12,304,595 \$4.873.548 \$980.386 \$220.379 (\$30.648.196) 6 Allocation of Admin. Costs \$0 **Final Net Revenue Requirement** \$229,704,355 \$156,251,748 \$73,452,607 \$82,350,783 \$61,887,486 \$12,449,581 \$2,798,519 ŚO \$389,190,725 Percent of Total 59.02% 40.15% 18.87% 21.16% 15.90% 3.20% 0.72% 0.00% 100%

Table 7-12: Summary FY 2024 COS by Cost Causation Component

The unit COS is calculated by dividing the revenue requirement for each cost causation component (Line 7 of Table 7-12) by the units of service. A detail of the unit COS calculation for flow, COD, TSS, OG, and customer billing is shown in Appendix J.

Wastewater Portion of Sewer Revenue Requirement

The wastewater portion of the sewer revenue requirement is calculated by multiplying the customer class units of service for each cost causation component by the calculated unit COS, as shown in Table 7-13. Line 21, shows the summation of the wastewater portion of the sewer revenue requirement by cost component. The total allocation of the cost of service to wastewater is \$301,471,528, or 77.5% of the \$389,190,725 total sewer revenue requirement.

Table 7-13: Detail of FY 2024 Wastewater Customer Class Revenue Requirements

			Flow (CCF)		St	rength (Pounds)		Co	ustomer		
Line			Infiltration					Infiltration	Customer		Aggregate
Line	Class	Dry Weather	(Flow Allocation)	Total Flow	COD	TSS	o/G	(Account Allocation)	Service	Total	Total
1	Units of Service										
2	Single Family Residential	5,745,781	996,201	6,741,982	24,534,916	10,007,662	3,048,930	805,530	1,340,050		
3	Multifamily Residential	9,720,649	1,685,362	11,406,012	41,507,991	16,930,858	5,158,178	262,881	437,320		
4	Municipal	502,612	87,143	589,754	2,125,773	840,158	231,016	5,748	9,562		
5	Nonresidential/Commercial	5,747,608	996,518	6,744,126	26,119,805	8,543,674	3,336,919	109,514	182,184		
6	Fire	28,194	4,888	33,082	0	0	0	70,510	117,298		
7	Municipal Fire	580	101	681	0	0	0	2,554	4,249		
8	Total	21,745,424	3,770,213	25,515,637	94,288,484	36,322,352	11,775,042	1,256,738	2,090,663		
9											
10	Unit COS										
11	Unit Cost	\$5.84	\$5.84	\$5.84	\$0.79	\$1.55	\$1.02	\$5.84	\$1.34		
12	Units	\$/CCF	\$/CCF	\$/CCF	\$/Pound	\$/Pound	\$/Pound	\$/CCF	\$Blil		
13											
14	Revenue Requirement										
15	Single Family Residential	\$33,534,131	\$5,814,134	\$39,348,264	\$19,306,109	\$15,475,167	\$3,122,931	\$4,701,316	\$1,793,764	\$6,495,080	\$83,747,552
16	Multifamily Residential	\$56,732,675	\$9,836,288	\$66,568,963	\$32,661,935	\$26,180,726	\$5,283,373	\$1,534,256	\$585,388	\$2,119,644	\$132,814,641
17	Municipal	\$2,933,395	\$508,591	\$3,441,986	\$1,672,735	\$1,299,163	\$236,623	\$33,547	\$12,799	\$46,346	\$6,696,852
18	Nonresidential/Commercial	\$33,544,796	\$5,815,983	\$39,360,779	\$20,553,232	\$13,211,356	\$3,417,910	\$639,159	\$243,868	\$883,026	\$77,426,304
19	Fire	\$164,549	\$28,529	\$193,079	\$0	\$0	\$0	\$411,518	\$157,013	\$568,531	\$761,610
20	Municipal Fire	\$3,385	\$587	\$3,972	\$0	\$0	\$0	\$14,908	\$5,688	\$20,596	\$24,568
21	Total	\$126,912,931	\$22,004,112	\$148,917,044	\$74,194,011	\$56,166,412	\$12,060,838	\$7,334,704	\$2,798,519	\$10,133,223	\$301,471,528

Stormwater Portion of Sewer Revenue Requirement

The stormwater portion of the sewer revenue requirement is calculated by multiplying the units of service for each cost causation component by the unit cost of service. Table 7-14 shows the calculated FY 2024 stormwater related costs of \$87,719,197 which is 22.5% of the total FY 2024 Wastewater Enterprise revenue requirement of \$389,190,725. In addition, no allocation of dry weather infiltration costs or customer service costs were included in the stormwater revenue requirement.

Flow (CCF) Strength (Pounds) Line Class **Wet Weather** COD **TSS** O/G **Aggregate Total Units of Service** 1 5,849,076 10,365,927 3,699,771 379,531 2 Stormwater 3 4 **Unit COS** 5 **Unit Cost** \$12.56 \$0.79 \$1.55 \$1.02 \$/CCF \$/Pound 6 Units \$/Pound \$/Pound 7 8 **Revenue Requirement** 9 Stormwater \$73,452,607 \$8,156,772 \$5,721,074 \$388,743 \$87,719,197

Table 7-14: FY 2024 Stormwater Revenue Requirement

Revenue Requirement Summary

Table 7-15 shows the revenue requirement by cost component (i.e. Flow, COD, CS, etc.), which sums to the total revenue requirement for both wastewater and stormwater.

Line	Service	Flow	COD	TSS	O/G	CS	Total
1	Wastewater	\$148,917,044	\$74,194,011	\$56,166,412	\$12,060,838	\$10,133,223	\$301,471,528
2	Stormwater	\$73,452,607	\$8,156,772	\$5,721,074	\$388,743	\$0	\$87,719,197
3	Total	\$222,369,651	\$82,350,783	\$61,887,486	\$12,449,581	\$10,133,223	\$389,190,725
4							
5	% Wastewater	67.0%	90.1%	90.8%	96.9%	100.0%	77.5%
6	% Stormwater	33.0%	9.9%	9.2%	3.1%	0.0%	22.5%
7	Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table 7-15: FY 2024 Revenue Requirement Summary

FY 2024 Wastewater Portion of Sewer Revenue Requirement versus Revenues at Existing Rates

Table 7-16 provides a summary comparison of how the FY 2024 wastewater customer class revenue requirements compare to the level of revenue earned from existing rates. For all wastewater customer classes, the FY 2024 cost to serve (in column A), is less than the amount earned from existing rates. This is because the SFPUC's current wastewater rates recover the cost of both wastewater and stormwater activities. The calculated FY 2024 wastewater revenue requirement excludes stormwater-related costs.

Table 7-16: FY 2024 Wastewater Portion of Revenue Requirement vs. Revenues at Existing Rates

Line	Customer Class	(A) Proposed Cost of Service (\$)	(B) Current Cost of Service (\$)	(C) Proposed Cost of Service (%)	(D) Current Cost of Service (%)	(E) % Difference
1	Single Family Residential	\$83,747,552	\$103,329,788	27.78%	27.61%	-19.0%
2	Multifamily Residential	\$132,814,641	\$165,279,146	44.06%	44.16%	-19.6%
3	Municipal	\$6,696,852	\$8,342,234	2.22%	2.23%	-19.7%
4	Nonresidential/Commercial	\$77,426,304	\$96,379,418	25.68%	25.75%	-19.7%
5	Fire	\$761,610	\$891,175	0.25%	0.24%	-14.5%
6	Municipal Fire	\$24,568	\$27,900	0.01%	0.01%	-11.9%
7	Total	\$301,471,528	\$374,249,662	100.00%	100.00%	-19.4%



8. Sewer Rate Design

8.1. Sewer (Wastewater and Stormwater) Rate Design Overview

This report section shows the calculation of FY 2024 rates for each wastewater customer class. The rates are an outcome of the comprehensive analysis of customer flows and strength loadings completed as part of the wastewater COS process described in Section 7. The rates are designed to recover wastewater service-related costs of \$301,471,528 (see Line 1 of Table 7-15) and stormwater service-related costs of \$87,719,197 (see Line 2 of Table 7-15) for the projected FY 2024 total sewer revenue requirement of \$389,190,725.

8.2. Wastewater Rate Calculations Monthly Service Charge

Table 8-1 shows the calculation of FY 2024 monthly service charge. The cost components recovered in the monthly service charge include the cost of dry weather infiltration and the cost of customer service each of which are allocated on the basis of accounts. The proposed monthly service charge is calculated by dividing the total revenue requirements by the total number of bills. This results in a charge of \$4.85 per bill, as shown in Table 8-1.

Calculated Account Allocated **Total Revenue** Current **Customer Service** \$ Difference **Customer Class** Infiltration Requirement \$/Bill \$/Bill Single Family Residential 1 \$4,701,316 \$1,793,764 \$6,495,080 1,340,050 \$4.85 \$5.21 -\$0.36 \$585,388 2 **Multifamily Residential** \$1,534,256 \$2,119,644 437,320 \$4.85 \$5.21 -\$0.36 3 Municipal \$33,547 \$12,799 \$46,346 9,562 \$4.85 \$5.21 -\$0.36 4 Nonresidential/Commercial \$639,159 \$243,868 \$883,026 182,184 \$4.85 \$5.21 -\$0.36 \$157,013 \$568,531 117,298 \$4.85 \$5.21 -\$0.36 \$411,518 \$20,596 4,249 -\$0.36 6 Municipal Fire \$14,908 \$5,688 \$4.85 \$5.21 **Total** \$7,334,704 \$2,798,519 \$10,133,223 2,090,663 \$4.85 \$5.21 -\$0.36

Table 8-1: Proposed FY 2024 Monthly Service Charge

Residential Commodity Rates

Table 8-2 shows the calculation of COS FY 2024 residential commodity rates. This rate is calculated by taking the flow and strength for each residential class and dividing it by the billed units originally established in Section 6.2. This results in a rate of \$13.45/CCF which is \$2.52 less than the current residential commodity rate of \$15.97/CCF.

Table 8-2: Proposed	١F١	2024	Residential	Commodity	/ Rates
---------------------	-----	-------------	-------------	-----------	---------

Line	Class	Flow and Strength	Billed Units	Calculated \$/CCF	Current \$/CCF	\$ Difference
1	Single Family Residential	\$77,252,472	5,745,781	\$13.45	\$15.97	(\$2.52)
2	Multifamily Residential	\$130,694,998	9,720,649	\$13.45	\$15.97	(\$2.52)
3	Blended Total	\$207,947,470	15,466,430	\$13.45	\$15.97	(\$2.52)

Non-Residential Commodity Rates

Table 8-3 shows the calculation of the COS FY 2024 non-residential commodity rates which consist of components for flow and strength (COD, TSS, OG). The rate is derived by taking the total flow or strength related revenue requirement and dividing by the billed units, established in Section 6.2. With the exception of the \$/lb. rate for COD (line 13 of Table 8-3), each billing component declines as compared to current rates. The increase in the dollar per pound (\$/lb.) rate for COD is primarily due to the large investment in treatment plant digester technologies made by the SFPUC.

Table 8-3: Proposed FY 2024 Non-Residential Commodity Rates

		Re	venue Requirem	ent				
		Flow Revenue	Infil. (Flow			Calculated	Current	
Line	Class	Requirement	Alloc)	Total Flow	Billed Units	\$/CCF	\$/CCF	\$ Difference
1	Municipal	\$2,933,395	\$508,591	\$3,441,986	502,612	\$6.85	\$9.46	(\$2.61)
2	Nonresidential/Commercial	\$33,544,796	\$5,815,983	\$39,360,779	5,747,608	\$6.85	\$9.46	(\$2.61)
3	Fire	\$164,549	\$28,529	\$193,079	28,194	\$6.85	\$9.46	(\$2.61)
4	Municipal Fire	\$3,385	\$587	\$3,972	580	\$6.85	\$9.46	(\$2.61)
5	Blended Total	\$36,646,125	\$6,353,690	\$42,999,816	6,278,994	\$6.85	\$9.46	(\$2.61)
6			,					
7			COD					
		COD Revenue						
8	Class	Requirement	Billed Units	Calculated \$/Lb.	Current \$/Lb.	\$ Difference		
9	Municipal	\$1,672,735	2,125,773	\$0.79		•		
10	Nonresidential/Commercial	\$20,553,232	26,119,805	\$0.79				
11	Fire	\$0	0					
12	Municipal Fire	\$0	0					
13	Blended Total	\$22,225,967	28,245,578	\$0.79	\$0.65	\$0.14		
14								
15								
16			TSS					
		TSS Revenue						
17	Class	Requirement	Billed Units	Calculated \$/Lb.	Current Charge	\$ Difference		
18	Municipal	\$1,299,163	840,158	\$1.55	\$1.65	(\$0.10)		
19	Nonresidential/Commercial	\$13,211,356	8,543,674	\$1.55	\$1.65	(\$0.10)		
20	Fire	\$0	0		,	() /		
21	Municipal Fire	\$0	0					
22	Blended Total	\$14,510,518	9,383,832	\$1.55	\$1.65	(\$0.10)		
23					•			
24								
25			O/G					
		OG Revenue	0,0					
26	Class	Requirement	Billed Units	Calculated \$/Lb.	Current Charge	\$ Difference		
27	Municipal	\$236,623	231,016	\$1.02	\$1.66	(\$0.64)		
28	Nonresidential/Commercial	\$3,417,910	3,336,919	\$1.02	\$1.66	(\$0.64)		
29	Fire	\$0	0,550,515	71.02	71.00	(\$0.04)		
30	Municipal Fire	\$0	0					
31	Blended Total	\$3,654,534	3,567,935	\$1.02	\$1.66	(\$0.64)		
31		43,034,334	3,50.,533	¥2.02	72.00	(70.04)		

Five-Year Wastewater Rate Projection

Table 8-4 summarizes COS wastewater rates for the period FY 2024 – FY 2028. The increase in rates after FY 2024 are based on the overall rate revenue increases specified in the financial plan. Table 6-16, as well as line 1 in Table 8-4, shows the revenue increases.

Table 8-4: Summary of Cost of Service Wastewater Rates FY 2024 – FY 2028

		(A)	(B)	(C)	(D)	(E)	(F)
Line	Wastewater	Current (Since 7/1/2022)	Proposed FY 2024	Proposed FY 2025	Proposed FY 2026	Projected FY 2027	Projected FY 2028
1	Revenue Rate Increase	(311102 7/1/2022)	9%	9%	9%	10%	10%
2							
3	Residential Volumetric (\$/CCF)	\$13.45	\$14.66	\$15.97	\$17.57	\$19.33	\$21.26
4							
5	Nonresidential Volumetric						
6	Discharge (\$/CCF)	\$6.85	\$7.46	\$8.14	\$8.95	\$9.84	\$10.83
7	COS (\$/pound)	\$0.79	\$0.86	\$0.93	\$1.03	\$1.13	\$1.24
8	TSS (\$/Pound)	\$1.55	\$1.69	\$1.84	\$2.02	\$2.22	\$2.45
9	O/G (\$/pound)	\$1.02	\$1.12	\$1.22	\$1.34	\$1.47	\$1.62

8.3. Stormwater Charge Overview

The Wastewater Enterprise has historically recovered stormwater-related costs through wastewater rates. In this study, a separate stormwater revenue requirement was calculated so that the SFPUC can implement stormwater specific charges. As discussed in Section 7, the projected FY 2024 stormwater service-related costs are \$87,719,197 (see Line 2 of Table 7-15). The stormwater rates presented in this section of the report are "full cost" (or COS based) rates that are designed to recover all the projected FY 2024 stormwater specific costs.

New Stormwater Charge Structure

The SFPUC has elected to implement a stormwater charge beginning in FY 2024 that features a "Simplified" structure for residential customers and a "Standard" structure for non-residential customers. Residential customers are defined as having a maximum of six dwelling units and a maximum lot size of 6,000 square feet. Under the Simplified rate structure, residential customers who meet this definition will be assessed a flat monthly charge in one of three Simplified Residential Tiers (SRT), based on parcel size. This flat charge is based on the average amount of permeable and impermeable area for parcels within each tier. These averages are based on a GIS analysis of all parcels in the City of San Francisco. Customers who do not meet the residential criteria are charged under the Standard rate structure based on their actual square footage of permeable and impermeable area. It is worth noting that any parcel area that does not drain to SFPUC's combined sewer will be excluded from the calculation of billable area. Table 8-5 summarizes this rate structure.

¹⁶ Excluded area includes land that drains to a lake, pond, or to the Bay; submerged portions of water front parcels; and areas that are managed by their own stormwater management system under a separate permit.

Table 8-5: New Stormwater Charge Structure

Line	Customer Type	Type of Charge
1	Simplified Residential Tiered Rate	
2	SRT1 (1 - 1,700 square feet parcel size)	Monthly Flat Charge
3	SRT2 (1,701 - 3,300 square feet parcel size)	Monthly Flat Charge
4	SRT3 (3,301 - 6,000 square feet parcel size)	Monthly Flat Charge
5		
6	Standard Non-Residential Rate Structrure	
7	Standard Rate Impermeable	\$/Thousand Square Feet / Month
8	Standard Rate Permeable	\$/Thousand Square Feet / Month

Stormwater Charge Calculation

Table 8-6 shows the calculation of the FY 2024 unit COS (dollar per thousand square feet per month or \$/KSF/mo.). The total billable permeable and impermeable areas shown in column B are based on a geospatial analysis of areal imaging that was prepared for SFPUC. The total billable areas are then multiplied by a runoff coefficient (column C) that was determined by SFPUC by calculating the runoff generated from impervious area and various pervious surfaces. The pervious surface analysis included multiple vegetation and soil conditions. For the purpose of setting up the stormwater charge, it was determined that 100% of precipitation would run off from impermeable surfaces, while 10% of precipitation would run off from the typical permeable surface in the city. To normalize the unit cost calculation, the billable areas were multiplied by the runoff coefficient (column B * column C) to calculate the effective permeable and impermeable areas. The total revenue requirements (column E) were then divided by the effective area to calculate the rate on a dollar per square foot per year basis. The rate was then converted to dollar per thousand square feet per month (column G).

Table 8-6: FY 2024 Stormwater Unit COS Calculation

(A)	(B)	(C)	(D=B*C)	(E)	(F=E/D)	(G=F*1,000/12)
Surface	Area	RO Coeff	Effective Area	Revenue Collection	Rate (\$/SF/Yr)	Rate (\$/KSF/Mo)
Impermeable Area	521,418,549	1.00	521,418,549	\$82,576,137	\$0.16	\$13.20
Permeable	324,753,283	0.10	32,475,328	\$5,143,061	\$0.02	\$1.32
Total	846,171,832		553,893,878	\$87,719,197		

Having established the unit COS for all permeable and impermeable surfaces, the next step in the development of the stormwater charge is to calculate the revenue requirement for each customer type and each tier. The percentage of the total effective permeable and impermeable areas for each class and tier is calculated and shown in column C and column D of Table 8-7 and are based on the effective areas originally shown in column D of Table 8-6. These percentages are then used to determine the portion of the revenue requirement that is allocated to each class and tier. The total permeable revenue requirements (column E) and impermeable revenue requirements (column F) in Table 8-7 are equal to the revenue collections in column E of Table 8-6. Table 8-7 shows a summarized version of this calculation.

Table 8-7: FY 2024 Stormwater Revenue Requirement by Customer Type
--

Line	Customer Type	(A) Effective Permeable Area	(B) Effective Impermeable Area	(C) Permeable Area as a % of Total	(D) Impermeable Area as a % of Total	(E) Permeable Revenue Requirement	(F) Impermeable Revenue Requirement	(G) Total Revenue Requrement
1	Simplified Residential							
2	SRT 1	139,473	8,963,289	0.03%	1.62%	\$22,088	\$1,419,500	\$1,441,588
3	SRT 2	7,475,135	181,523,041	1.35%	32.77%	\$1,183,824	\$28,747,484	\$29,931,308
4	SRT 3	3,067,956	61,377,834	0.55%	11.08%	\$485,867	\$9,720,299	\$10,206,166
5	Standard	21,792,765	269,554,385	3.93%	48.67%	\$3,451,282	\$42,688,853	\$46,140,135
6	Total	32,475,328	521,418,549	5.86%	94.14%	\$5,143,061	\$82,576,137	\$87,719,197

The third step in the calculation of the stormwater charge is the development of dollar per thousand square foot per month unit costs for both permeable and impermeable areas. Table 8-8 shows this calculation which is a more detailed version of the information previously provided in Table 8-7 and Table 8-6. The permeable charge is the permeable revenue requirement divided by the permeable area and multiplied by 1,000 and divided by 12 to create a monthly charge. The impermeable charge is derived in the same manner.

Table 8-8: \$/Thousand Square Foot/Month Unit Costs

Line	Customer Type	Permeable Revenue Requirement	Impermeable Revenue Requirement	Total Revenue Requirement	Permeable Area (Sq. Ft.)	Impermeable Area (Sq. Ft.)	Permeable \$/KSF/Mo.	Impermeable \$/KSF/Mo.
1	Simplified Residential							
2	SRT 1	\$22,088	\$1,419,500	\$1,441,588	1,394,726	8,963,289	\$1.32	\$13.20
3	SRT 2	\$1,183,824	\$28,747,484	\$29,931,308	74,751,352	181,523,041	\$1.32	\$13.20
4	SRT 3	\$485,867	\$9,720,299	\$10,206,166	30,679,558	61,377,834	\$1.32	\$13.20
5	Standard	\$3,451,282	\$42,688,853	\$46,140,135	217,927,647	269,554,385	\$1.32	\$13.20
6	Total	\$5,143,061	\$82,576,137	\$87,719,197	324,753,283	521,418,549		

The fourth step in the calculation of the stormwater charge is the development of the differentiated monthly fixed charge for each residential tier in the Simplified portion of the stormwater charge structure. This calculation requires the use of average residential parcel size estimates as developed by the SFPUC. Table 8-9 shows this calculation. The impermeable monthly charge is derived by multiplying the first two columns and dividing by 1,000. The permeable monthly charge is the permeable unit rate multiplied by the assumed permeable area and divided by 1,000. The total monthly charge is the sum of the impermeable monthly charge and the permeable monthly charge.

Table 8-9: Development of FY 2024 Stormwater Charges by Residential Tier

Line	Simplified Residential Tier	Impermeable \$/KSF/Mo	Assumed Impermeable Area (Sq. Ft.)	Impermeable Monthly Charge	Permeable \$/KSF/Mo	Assumed Permeable Area (Sq. Ft.)	Permeable Monthly Charge	Total Monthly Charge
1	SRT1 (1 - 1,700 square feet parcel size)	\$13.20	1,207	\$15.93	\$1.32	188	\$0.25	\$16.18
2	SRT2 (1,701 - 3,300 square feet parcel size)	\$13.20	1,832	\$24.18	\$1.32	754	\$1.00	\$25.17
3	SRT3 (3,301 - 6,000 square feet parcel size)	\$13.20	2,731	\$36.04	\$1.32	1,365	\$1.80	\$37.84

FY 2024 Stormwater Cost of Service Rate Summary

Table 8-10 summarizes the COS FY 2024 stormwater charge calculated as shown in Table 8-7, Table 8-8, and Table 8-9.

Table 8-10: Cost of Service FY 2024 Stormwater Charge

Line	Simplified Residential Tier	\$/KSF/Mo	Assumed Area (Sq. Ft.)	Monthly Charge
1	Permeable			
2	SRT1 (1 - 1,700 square feet parcel size)	\$1.32	188	\$0.25
3	SRT2 (1,701 - 3,300 square feet parcel size)	\$1.32	754	\$1.00
4	SRT3 (3,301 - 6,000 square feet parcel size)	\$1.32	1,365	\$1.80
5				
6	Impermeable			
7	SRT1 (1 - 1,700 square feet parcel size)	\$13.20	1,207	\$15.93
8	SRT2 (1,701 - 3,300 square feet parcel size)	\$13.20	1,832	\$24.18
9	SRT3 (3,301 - 6,000 square feet parcel size)	\$13.20	2,731	\$36.04
10				
11	Combined			
12	SRT1 (1 - 1,700 square feet parcel size)			\$16.18
13	SRT2 (1,701 - 3,300 square feet parcel size)			\$25.17
14	SRT3 (3,301 - 6,000 square feet parcel size)			\$37.84

Five-Year Stormwater Cost of Service Rate Projection

Table 8-11 summarizes stormwater charges for the period FY 2024 – FY 2028. The increase in rates after FY 2024 are based on the overall rate revenue increases specified in the financial plan.

Table 8-11: Summary of Cost of Service Stormwater Charges FY 2024 – FY 2028

		(A)	(B)	(C)	(D)	(E)	(F)
Line	Stormwater Class	Current (N/A)	Proposed FY 2024	Proposed FY 2025	Proposed FY 2026	Projected FY 2027	Projected FY 2028
1	Revenue Rate Increase		9%	9%	9%	10%	10%
2							
3	Simplified Residential Tiered Rate						
4	SRT1 (\$/Month)	N/A	\$16.18	\$17.63	\$19.22	\$21.14	\$23.25
5	SRT2 (\$/Month)	N/A	\$25.17	\$27.44	\$29.91	\$32.90	\$36.19
6	SRT3 (\$/Month)	N/A	\$37.84	\$41.25	\$44.96	\$49.46	\$54.41
7							
8	Standard Rate Impermeable (\$/ksqft/mo.)	N/A	\$13.20	\$14.39	\$15.68	\$17.25	\$18.97
9	Standard Rate Permeable (\$/ksqft/mo.)	N/A	\$1.32	\$1.44	\$1.57	\$1.72	\$1.90

8.4. COS Sewer Bill Impacts

Several examples are presented in this section to illustrate the bill impacts for different users of the proposed rate structure. The bills shown in each figure include the impact of proposed FY 2024 sewer rates, which include a monthly sewer service charge, a stormwater charge, and volumetric wastewater rates without a phase-in period for the stormwater charge.

Table 8-1 presents FY 2024 bill impacts for Single Family Residential customers assuming the Simplified Residential Tier 2 charges without a phase-in.

115%

% Difference

Figure 8-2 presents the FY 2024 impacts for multifamily apartments assuming the Standard stormwater charge for a medium-sized apartment building with 43 sq. ft. of permeable area and 4,008 sq. ft. of impermeable area and 71.2 CCF of discharge.

Figure 8-3 shows the FY 2024 impacts for non-residential customers assuming the Standard stormwater charge with 22,924 sq. ft. of permeable area and 141,018 sq. ft. of impermeable area.

Sewer Monthly Bill Impacts (Customer Class: Single Family Residential, Stormwater Charge: SRT 2) \$160 \$140 \$120 \$100 \$80 \$60 \$40 \$20 \$0 0.9 CCF 2.1 CCF 3.6 CCF 5.7 CCF 8.3 CCF \$138.02 ■ Current \$19.58 \$37.98 \$62.70 \$95.76 ■ Total Proposed Bills \$42.12 \$57.61 \$78.42 \$106.25 \$141.83 \$ Difference \$22.54 \$19.63 \$15.72 \$10.49 \$3.81

25%

11%

3%

52%

Figure 8-1: FY 2024 Single Family Residential Bill Impacts by Usage Percentile

Figure 8-2: FY 2024 Multifamily Residential Bill Impacts by Usage Percentile

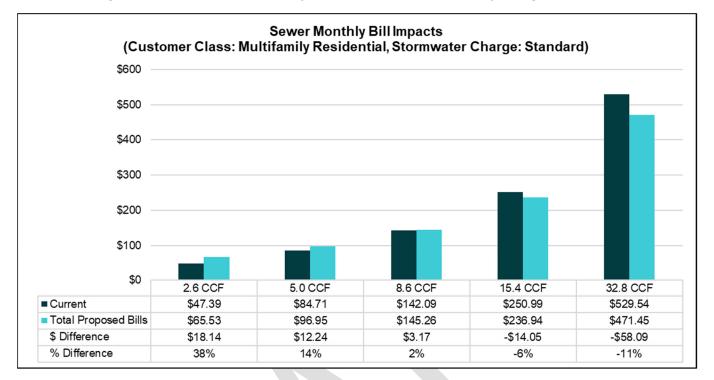
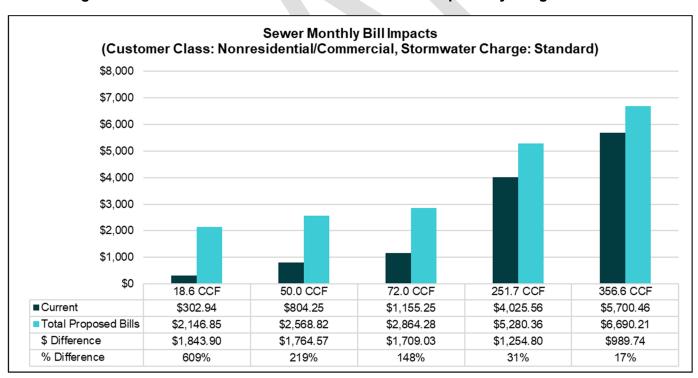


Figure 8-3: FY 2024 Non-Residential Residential Bill Impacts by Usage Percentile



9. Proposed Sewer Rates

9.1. Introduction

The rates presented by MME and Raftelis in Section 8 are designed to recover the FY 2024 wastewater service-related costs of \$301,471,528 and the FY 2024 stormwater service-related costs of \$87,719,197. This change would result in significant bill impacts on customers with parcels that have large impermeable surface areas. The SFPUC's Ratepayer Assurance Policy principles of Affordability and Predictability suggests that major rate structure changes should take place over a few years instead of all at once. The SFPUC proposed sewer rates include a phase in of the stormwater charges to full stormwater cost recovery in FY 2030. From FY 2024 – FY 2029, wastewater rates will continue to include, albeit on a decreasing level each year, a portion of stormwater-related costs, as shown in Table 9-1. The proposed sewer rates for FY 2024 through FY 2026 as well as the projected rates for FY 2027 and FY 2028 are shown in Table 9-2.

9.2. Phase-In Revenue Requirement Projection

Table 9-1 shows the revenue requirements from Section 8 of this report and the re-allocation of the stormwater costs between FY 2024 and FY 2029. Key items shown on this table include:

<u>Stormwater Phase-In Percentage (Line 1)</u>: This is the percentage of the annual stormwater related costs that will be collected through wastewater rates each year of the phase in period.

<u>Adjusted Wastewater Total (Line 5)</u>: This is annual revenues to be collected through wastewater rates after the addition of a portion of the stormwater related costs.

<u>Adjusted Stormwater Total (Line 10)</u>: This is the annual revenue to be collected through stormwater charges after a portion of costs have been shifted to wastewater.

Line	Description	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031
1	Stormwater Phase-In Percentage	86%	71%	57%	43%	29%	14%	0%	0%
2									
3	Wastewater Cost of Service	\$301,471,528	\$328,603,965	\$358,178,322	\$393,996,154	\$433,395,770	\$476,735,347	\$519,641,528	\$566,409,266
4	Add: Stormwater Phase-In	\$75,187,883	\$68,295,661	\$59,553,816	\$49,131,898	\$36,030,059	\$19,816,532	\$0	\$0
5	Adjusted Wastewater Total	\$376,659,411	\$396,899,626	\$417,732,138	\$443,128,053	\$469,425,829	\$496,551,879	\$519,641,528	\$566,409,266
6	% Change	0%	5%	5%	6%	6%	6%	5%	9%
7									
8	Stormwater Cost of Service	\$87,719,197	\$95,613,925	\$104,219,178	\$114,641,096	\$126,105,206	\$138,715,726	\$151,200,142	\$164,808,155
9	Less: Stormwater Phase-In	(\$75,187,883)	(\$68,295,661)	(\$59,553,816)	(\$49,131,898)	(\$36,030,059)	(\$19,816,532)	\$0	\$0
10	Adjusted Stormwater Total	\$12,531,314	\$27,318,264	\$44,665,362	\$65,509,198	\$90,075,147	\$118,899,194	\$151,200,142	\$164,808,155
11	% Change	0%	118%	64%	47%	38%	32%	27%	9%
12									
13	Total Revenue Requirement	\$389,190,725	\$424,217,890	\$462,397,501	\$508,637,251	\$559,500,976	\$615,451,073	\$670,841,670	\$731,217,420

Table 9-1: Revenue Requirements for Proposed Sewer Rates

9.3. Proposed Sewer Rates

Table 9-2 shows the proposed sewer rates for FY 2024 – FY 2028. All rates and charges were calculated using the same methodology described in Section 8, with the exception of adjustments made to phase-in the rates. The phase-in period is from FY 2024 – FY 2030.

Table 9-2: Proposed Sewer Rates

Line	Class	Proposed	Proposed	Proposed	Projected	Projected
		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1	Wastewater Rates					
2	Monthly Service Charge (All Classes)	\$4.85	\$5.28	\$5.76	\$6.33	\$6.97
3						
4	Residential Rate (\$/ccf)	\$16.91	\$17.80	\$18.72	\$19.83	\$20.99
5						
6	Non-Residential (\$/ccf)	\$9.74	\$10.09	\$10.43	\$10.84	\$11.23
7	COD (\$/lb)	\$0.86	\$0.93	\$0.99	\$1.08	\$1.17
8	TSS (\$/lb)	\$1.68	\$1.81	\$1.94	\$2.11	\$2.29
9	OG (\$/lb)	\$1.05	\$1.14	\$1.24	\$1.36	\$1.49
10						
11	Stormwater Rates					
12	Simplified Residential)			
13	Simplified Residential Tier 1	\$2.31	\$5.04	\$8.24	\$12.08	\$16.61
14	Simplified Residential Tier 2	\$3.60	\$7.84	\$12.82	\$18.80	\$25.85
15	Simplified Residential Tier 3	\$5.41	\$11.79	\$19.27	\$28.26	\$38.86
16						
17	Standard					
18	Permeable (\$/KSF/Mo)	\$0.19	\$0.41	\$0.67	\$0.99	\$1.36
19	Impermeable (\$/KSF/Mo)	\$1.89	\$4.11	\$6.72	\$9.86	\$13.55

9.4. Proposed Sewer Bill Impacts

Figure 9-1 presents sample FY 2024 sewer bill impacts for Single Family Residential customers assuming a Simplified Residential Tier 2 customer.

Figure 9-2 presents the FY 2024 impacts for multifamily apartments assuming the standard stormwater charge for a medium-sized apartment building with 43 sq. ft. of permeable area and 4,008 sq. ft. of impermeable area. Figure 9-3 shows the FY 2024 impacts for non-residential customers assuming the standard stormwater charge, 22,974 sq. ft. of permeable area, and 141,018 sq. ft. of impermeable area. The bill impacts shown in each figure include the impact of proposed FY 2024 phased-in wastewater rates and stormwater charges.

Figure 9-1: FY 2024 Single Family Residential Bill Impacts by Usage Percentile

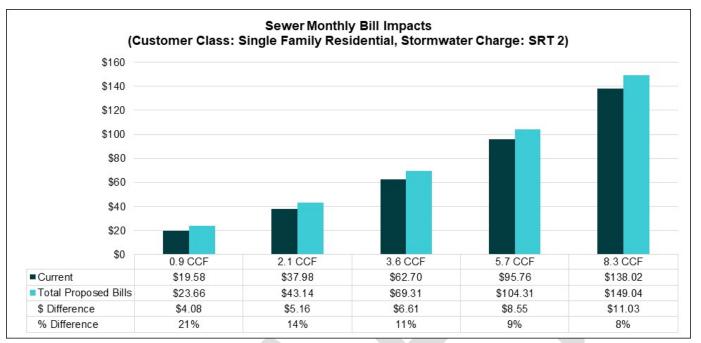
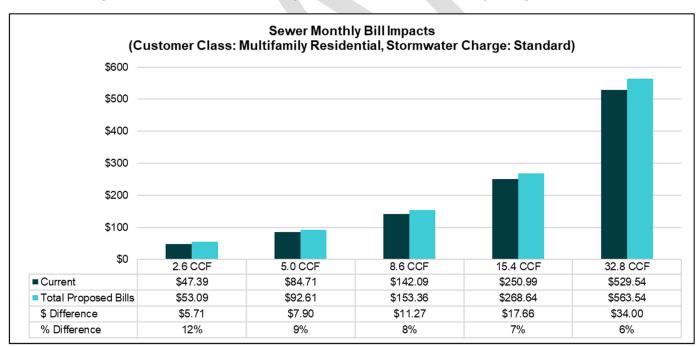


Figure 9-2: FY 2024 Multifamily Residential Bill Impacts by Usage Percentile



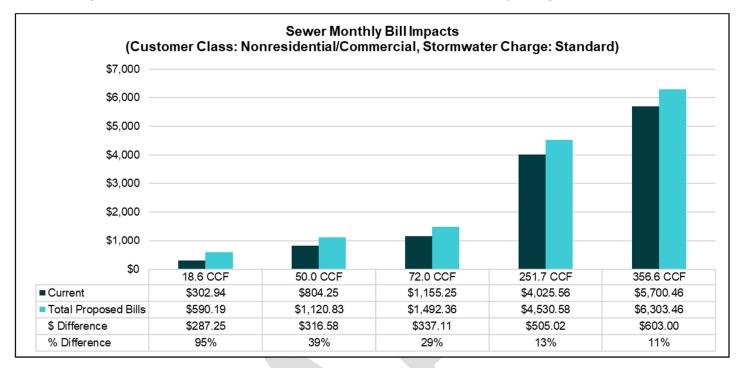


Figure 9-3: FY 2024 Non-Residential Residential Bill Impacts by Usage Percentile

Figure 9-4, Figure 9-5, and Figure 9-6 show the proposed bill impacts from FY 2024 to FY 2030 for three different types of customers. Figure 9-4 is a Single Family Residential customer with billed sewer discharges of 4.32 CCF in Simplified Residential Tier SRT 2. Figure 9-5 shows the bill impacts for a Multifamily Residential building with monthly billed discharges of 71.2 CCF, 43 sq. ft. of permeable area, and 4,008 sq. ft. of impermeable area. Figure 9-6 shows the impacts for a Non-Residential customer with monthly billed discharges of 307.6 CCF, 22,924 sq. ft. of permeable area, and 141,018 sq. ft. of impermeable area.



Figure 9-4: Proposed and Planned Single Family Residential Bill Impacts

Figure 9-5: Proposed and Planned Multifamily Residential Bill Impacts

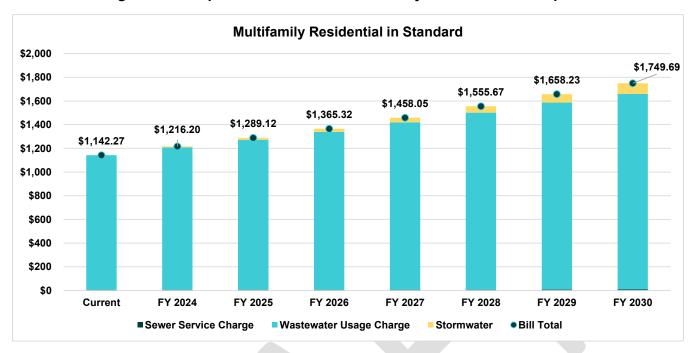
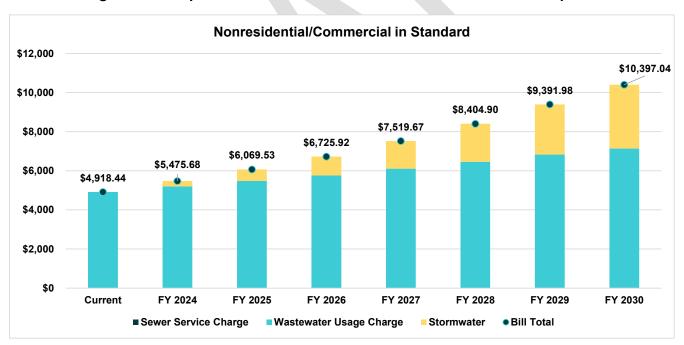


Figure 9-6: Proposed and Planned Non-Residential Customer Bill Impacts



APPENDIX A:

Ten-Year Water Enterprise Financial Plan

Ten-Year Status Quo Water Enterprise Financial Plan

Retail Rate Revenue from Existing Rates Contract Rate Revenue Sale Sale Sale Sale Sale Sale Sale Sale	Line	Water Enterprise	Financial Plan		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
2 10.00 Petal (rest. Tressure Interval 10.00 20.00	1			Rates			0_0			0_0	0_0				
State Stat	2		•	raico	\$315 Q52 677	\$320,363,230	\$311 13 <i>1 1</i> 70	\$315 562 071	\$312,610,863	\$310 583 703	\$307 104 623	\$304 677 067	\$302 247 320	\$301 010 /1/	\$300.494.150
Comman Rate Renewment			i. ITCasarc Islana)												, ,
Propaga Prop	-		e Pavanua												
Proposed Revenue Adjustments				otmonto											
Proposed Revenue Reven		Total Rate Reven	iue subject to Auju	Stillelits	\$329,700,730	\$335,543,171	\$323,130,30 I	\$330,45 <i>1</i> ,654	\$327,300,214	\$325,123,456	\$321,407,000	\$310,013,073	\$310,217,399	Φ313,044,777	\$314,329,270
Fiscal Magliambreal Effective Fiscal F	-	Drawanad Davies													
Vicinity		•	•	N.A 41-											
FY 2026	-														
FY 2005	-				••		•	•			••	•	•	40	•
Pr 2007 O1%															
13 FY 2027 O.0% July So So 30 So So So So So So So S															
FY 2029															
FY 2029															
FY 2030				,						1.7%	SECTION OF THE PROPERTY OF THE			* *	
FY 2031															
FY 2032 0.0% July 50 50 50 50 50 50 50 5				•				000000000000000000000000000000000000000							
FY 2033 0.9% July 50 50 50 50 50 50 50 5															
Total Revenue Adjustments \$0															
REVENUE 28 Retenue: Adjustments 28 \$330,215,284 \$336,104.288 \$326,355,598 \$331,002.855 \$327,853,063 \$321,952.812 \$319,355,204 \$316,755,454 \$316,380.894 \$314,862,657 \$40.0000				July											
22 RetWRINE		Total Revenue Ad	djustments		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
22 Retail Rate Revenue incl. Adjustments \$330,215,284 \$336,104,288 \$326,355,689 \$331,002,855 \$327,850,083 \$325,576,000 \$321,952,812 \$319,355,204 \$316,755,454 \$316,360,984 \$314,862,087 \$7000,000 \$7											7				
24 CAP Use of Revenues (\$1,245,932) (\$7,000,000) (\$7,000,	22	REVENUE										VIII)			
Notesale \$289,589,379 \$316,979,387 \$329,505,882 \$341,633,834 \$324,64.481 \$304,404.777 \$306,410.350 \$51,566 \$0 \$0 \$0 \$0 \$0 \$0 \$0	23	Retail Rate Reven	ue incl. Adjustment	s	\$330,215,284	\$336,104,288	\$326,355,598	\$331,002,855	\$327,853,063	\$325,674,000	\$321,952,812	\$319,355,204	\$316,755,454	\$316,380,894	\$314,862,657
Interest Income		CAP Use of Rever	nues					(\$7,000,000)		(\$7,000,000)					(\$7,000,000)
Retail Income \$13,136,000 \$13,595,800 \$13,964,246 \$14,321,731 \$14,688,367 \$15,064,339 \$15,450,038 \$15,845,559 \$16,251,205 \$16,667,236 \$17,093,917	25	Wholesale Water	Sales		\$289,598,379	\$316,979,387		\$341,633,834	\$342,654,481	\$364,404,777	\$366,410,350	\$384,657,715	\$386,956,713	\$392,273,772	\$402,060,094
Perfedent Bond Interest Subsidy	26	Interest Income				\$1,133,000		\$804,576							
29 Other Misc Income \$12,429,431 \$13,087,577 \$13,596,803 \$7,420,000 \$7,22	27	Rental Income			\$13,136,000	\$13,595,800	\$13,964,246	\$14,321,731	\$14,688,367	\$15,064,389	\$15,450,038	\$15,845,559	\$16,251,205	\$16,667,236	\$17,093,917
97 Programmatic Revenues \$7,156,000 \$7,269,000 \$7,202,000 \$7,224,000 \$7,224,000 \$7,234,000 \$7,328,000 \$7,380,000 \$1,580,0	28	Federal Bond Inte	rest Subsidy		\$21,289,804	\$21,317,856	\$21,184,845	\$20,849,738	\$20,536,693	\$20,098,912	\$22,885,952	\$22,223,726	\$21,535,376	\$20,702,559	\$19,710,866
31 Capacity Fees	29	Other Misc Income	e		\$12,429,431	\$13,067,577	\$13,596,883	\$14,021,344	\$14,486,674	\$14,917,017	\$17,130,431	\$17,503,215	\$17,885,542	\$18,277,657	\$18,679,810
TOTAL REVENUE \$675,207,967 \$704,382,909 \$705,078,728 \$724,356,078 \$722,428,291 \$742,042,660 \$745,750,583 \$761,547,420 \$761,318,290 \$766,253,118 \$774,010,752 \$30 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	30	Programmatic Rev	venues		\$7,156,000	\$7,158,000	\$7,277,000	\$7,202,000	\$7,223,000	\$7,234,000	\$7,277,000	\$7,328,000	\$7,380,000	\$7,431,000	\$7,083,407
	31				\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000	\$1,644,000	\$1,634,000	\$1,554,000	\$1,520,000	\$1,520,000
34 O&M Expenses Fersonnel \$112,230,822 \$114,601,996 \$118,517,389 \$122,571,352 \$126,768,977 \$131,115,546 \$135,616,547 \$140,277,675 \$145,104,844 \$150,104,194 \$155,282,109 35 Other Non-Personnel Services \$20,712,391 \$20,476,847 \$21,091,153 \$21,723,887 \$22,375,504 \$23,048,672 \$23,738,278 \$24,450,426 \$25,183,939 \$25,5939,457 \$25,077,641 37 Materials, Supplies & Equipment \$19,176,058 \$19,997,104 \$20,076,352 \$21,193,642 \$21,829,451 \$22,484,335 \$23,158,865 \$23,855,631 \$24,569,240 \$25,006,317 38 Services of SPPLC Bureaus \$63,140,408 \$64,047,699 \$65,096,129 \$67,948,203 \$69,986,649 \$72,086,248 \$74,248,836 \$76,476,301 \$78,770,596 \$81,133,708 \$83,567,719 39 Services of Other Departments \$26,469,977 \$27,510,078 \$28,241,518 \$29,077,688 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,888 \$29,907,908 \$40,000,000 \$4	32	TOTAL REVENUE	E		\$675,207,967	\$704,352,909	\$705,078,728	\$724,356,078	\$722,428,291	\$742,042,660	\$745,750,583	\$761,547,420	\$761,318,290	\$766,253,118	\$774,010,752
Services of Strict (1988)	33														
36 Other Non-Personnel Services \$20,712,391 \$20,476,847 \$21,091,153 \$21,723,887 \$22,375,604 \$23,046,872 \$23,738,278 \$24,450,426 \$25,183,939 \$25,939,457 \$26,771,641 \$34,776,765 \$19,935,185 \$19,977,040 \$20,576,352 \$21,103,642 \$21,829,465 \$21,824,835 \$23,158,865 \$23,853,861 \$22,853,861 \$22,459,246 \$21,829,469 \$21,829,46	34	O&M Expenses													
37 Materials, Supplies & Equipment \$19,176,058 \$19,395,185 \$19,395,185 \$19,997,040 \$20,576,352 \$21,193,642 \$21,829,451 \$22,484,335 \$23,158,865 \$23,858,631 \$24,569,240 \$25,306,317 \$38,567,719 \$38,567	35	Personnel			\$112,230,822	\$114,601,996	\$118,517,389	\$122,571,352	\$126,768,977	\$131,115,546	\$135,616,547	\$140,277,675	\$145,104,844	\$150,104,194	\$155,282,100
37 Materials, Supplies & Equipment \$19,176,058 \$19,395,185 \$19,395,185 \$19,977,040 \$20,576,352 \$21,193,642 \$21,829,451 \$22,484,335 \$23,158,865 \$23,853,631 \$24,569,240 \$25,036,317 \$38,567,119 \$38,567	36	Other Non-Person	nnel Services		\$20,712,391	\$20,476,847	\$21,091,153	\$21,723,887	\$22,375,604	\$23,046,872	\$23,738,278	\$24,450,426	\$25,183,939	\$25,939,457	\$26,717,641
Services of SFPUC Bureaus \$63,140,408 \$64,047,698 \$65,969,129 \$67,948,203 \$69,986,649 \$72,286,248 \$74,248,836 \$74,248,836 \$74,270,100 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$81,133,708 \$83,567,719 \$9 \$1,179,179,179,179,179,179,179,179,179,17	37	Materials, Supplies	s & Equipment				\$19,977,040	\$20,576,352	\$21,193,642	\$21,829,451	\$22,484,335	\$23,158,865	\$23,853,631	\$24,569,240	\$25,306,317
Hetch Hetchy Assessment \$49,636,000 \$46,032,000 \$49,477,000 \$51,029,000 \$52,585,000 \$53,965,000 \$55,477,000 \$57,221,000 \$58,947,000 \$60,676,000 \$62,689,000 \$1,000	38				\$63,140,408	\$64,047,698		\$67,948,203	\$69,986,649	\$72,086,248		\$76,476,301		\$81,133,708	\$83,567,719
Hetch Hetchy Assessment \$49,636,000 \$46,032,000 \$49,477,000 \$51,029,000 \$52,585,000 \$53,965,000 \$55,477,000 \$57,221,000 \$58,947,000 \$60,676,000 \$62,689,000 \$1,000	39	Services of Other	Departments		\$26,469,977	\$27,510,078	\$28,241,518	\$29,077,688	\$29,938,942	\$30,826,035	\$31,739,740	\$32,680,856	\$33,650,206	\$34,648,636	\$35,677,019
Other Operating Expenses \$1,795,868 \$3,458,368 \$3,458,368 \$3,561,643 \$3,668,017 \$3,777,582 \$3,890,434 \$4,006,671 \$4,126,395 \$4,249,712 \$4,376,727 \$4,507,553 \$2,607,100 \$33,266,186 \$36,266,186 \$36,266,186 \$36,266,186 \$36,266,186 \$36,266,186 \$36,26															
Programmatic Expenses \$33,863,389 \$33,266,186 \$33,266,								000000000000000000000000000000000000000							,
TOTAL O&M \$327,024,913 \$328,788,358 \$340,101,058 \$349,860,685 \$359,892,582 \$370,025,772 \$380,577,592 \$391,657,705 \$403,026,107 \$414,714,148 \$427,013,536 NET REVENUE \$348,183,054 \$375,564,551 \$364,977,669 \$374,495,393 \$362,535,709 \$372,016,888 \$365,172,991 \$369,889,716 \$358,292,183 \$351,538,970 \$346,997,216 DEBT SERVICE \$328,352,143 \$333,499,425 \$333,695,790 \$345,754,465 \$344,766,842 \$342,987,734 \$349,133,265 \$349,286,883 \$347,553,611 \$348,155,670 \$341,823,983 Proposed Debt Service \$0 \$0 \$0 \$1,751,735 \$27,898,491 \$29,690,107 \$56,432,137 \$58,261,233 \$85,562,710 \$85,562,710 \$85,562,710 \$85,562,710 \$85,562,710 \$85,562,710 \$85,662,	42														
NET REVENUE \$348,183,054 \$375,564,551 \$364,977,669 \$374,495,393 \$362,535,709 \$372,016,888 \$365,172,991 \$369,889,716 \$358,292,183 \$351,538,970 \$346,997,216 DEBT SERVICE Existing Debt Service \$328,352,143 \$333,499,425 \$333,635,790 \$345,754,465 \$344,766,842 \$342,987,734 \$349,133,265 \$349,286,883 \$347,553,611 \$348,155,670 \$341,823,983 \$49 Proposed Debt Service \$0 \$0 \$0 \$1,751,735 \$27,898,491 \$29,690,107 \$56,432,137 \$58,261,233 \$85,562,710 \$85,562,7												, , ,			
NET REVENUE \$348,183,054 \$375,564,551 \$364,977,669 \$374,495,393 \$362,535,709 \$372,016,888 \$365,172,991 \$369,889,716 \$358,292,183 \$351,538,970 \$346,997,216 \$46					, , , , , ,			,	,	, , . ,	, , . ,	, , ,		, , ,	, , , , , , , , ,
DEBT SERVICE 48 Existing Debt Service 50 \$0 \$1,751,735 \$27,898,491 \$29,690,107 \$56,432,137 \$58,261,233 \$43,484,553,611 \$348,155,670 \$341,823,983 Proposed Debt Service 50 \$0 \$1,751,735 \$27,898,491 \$29,690,107 \$56,432,137 \$58,261,233 \$85,562,710 \$85,562,7		NET REVENUE			\$348,183,054	\$375.564.551	\$364.977.669	\$374,495,393	\$362.535.709	\$372.016.888	\$365,172,991	\$369.889.716	\$358,292,183	\$351,538,970	\$346,997,216
DEBT SERVICE Existing Debt Service \$328,352,143 \$333,499,425 \$333,635,790 \$345,754,465 \$344,766,842 \$342,987,734 \$349,133,265 \$349,286,883 \$347,553,611 \$348,155,670 \$341,823,983 Proposed Debt Service \$0 \$0 \$1,751,735 \$27,898,491 \$29,690,107 \$56,432,137 \$58,261,233 \$85,562,710 \$85,5					, , , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , , ,	, , ,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,	, , ,	, ,	, , , ,	, , , , , , , , , , , , , , , , , , , ,
Existing Debt Service \$328,352,143 \$333,499,425 \$333,695,790 \$345,754,465 \$344,766,842 \$342,987,734 \$349,133,265 \$349,286,883 \$347,553,611 \$348,155,670 \$341,823,983 \$470,000 \$10,000		DEBT SERVICE													
49 Proposed Debt Service \$0 \$0 \$1,751,735 \$27,898,491 \$29,690,107 \$56,432,137 \$58,261,233 \$85,562,710			ice		\$328 352 143	\$333 499 425	\$333 635 790	\$345 754 465	\$344 766 842	\$342 987 734	\$349 133 265	\$349 286 883	\$347 553 611	\$348 155 670	\$341 823 983
TOTAL DEBT SERVICE \$328,352,143 \$333,499,425 \$335,387,524 \$373,652,956 \$374,456,949 \$399,419,870 \$407,394,498 \$434,849,593 \$433,116,321 \$433,718,379 \$427,386,693 FUNDING FOR PAY-AS-YOU-GO CIP FUNDING FOR PAY-AS-YOU-GO CIP Capacity Fees \$1,520,000 \$1,997,000 \$2,061,000 \$1,520,000 \$1,580,000 \$1,644,000 \$1,644,000 \$1,634,000 \$1,554,000 \$1,520,000 \$1															
FUNDING FOR PAY-AS-YOU-GO CIP 51 Capacity Fees \$1,520,000 \$1,997,000 \$2,061,000 \$1,520,000 \$1,580,000 \$1,644,000 \$1,644,000 \$1,644,000 \$1,634,000 \$1,554,000 \$1,520,0															
FUNDING FOR PAY-AS-YOU-GO CIP 51 Capacity Fees \$1,520,000 \$1,997,000 \$2,061,000 \$1,520,000 \$1,580,000 \$1,644,000 \$1,644,000 \$1,644,000 \$1,634,000 \$1,554,000 \$1,520,0		. CIAL DEDI OLI			7320,002,140	+300,400,420	\$300,001,0 2 4	+510,00 <u>2,00</u> 0	+51-4,400,040	+300,410,070	Ţ .01,00 1,10 0	Ţ.0-1,0-10,000	Ţ.00,110,021	Ţ.00,1 10,010	Ţ. <u>2</u> 1,000,000
51 Capacity Fees \$1,520,000 \$1,997,000 \$2,061,000 \$1,520,000 \$1,520,000 \$1,580,000 \$1,644,000 \$1,644,000 \$1,644,000 \$1,634,000 \$1,554,000 \$1,520,000 \$1,520,000 \$2,001,000 \$1,520,000 \$1,52		FUNDING FOR P	AV-AS-VOLLGO CI	D											
52 Local Revenue \$20,604,600 \$20,579,658 \$51,559,000 \$57,100,000 \$38,545,000 \$30,000,000 \$42,000,000 \$40,327,975 \$27,600,000 \$35,698,998 \$23,000,000 \$40,000,000 \$			A 1-40-100-00 CI	•	¢1 520 000	\$1,007,000	\$2.064.000	¢1 520 000	¢1 500 000	¢1 644 000	¢1 644 000	¢1 624 000	¢1 554 000	¢1 520 000	¢1 520 000
53 Regional Revenue \$25,000,000 <															
TOTAL FUNDING FOR PAY-AS-YOU-GO CIP \$47,124,600 \$47,576,658 \$78,620,000 \$83,620,000 \$65,125,000 \$56,644,000 \$68,644,000 \$66,961,975 \$49,154,000 \$57,177,679 \$46,520,000 \$55															
55				LGO CIP											
		TOTAL FUNDING	101-6A-1A7 70 1	J-30 CIP	φ41,124,000	\$41,510,058	Φ10,0∠0,000	⊅ 03,0∠0,000	φου, ι∠υ,υυυ	\$30,044,000	φοο,σ44,000	\$00,301,375	φ 43 , ι 34,000	φοι, ι <i>ιι</i> οι θ	⊅40, 0∠0,000
00 NEI CASH FLOW (\$21,233,003) (\$3,311,322) (\$43,023,003) (\$02,111,003) (\$111,004,40) (\$04,040,302) (\$110,005,301) (\$151,321,802) (\$123,318,138) (\$139,351,088) (\$126,303,417)		NET CASH ELOVA	,		(\$27.202.60A)	(\$E E44 E22)	(\$40.020.0EE)	(\$00 777 Eco)	(\$77.046.240\	(\$04 046 000)	(\$110 OCE E07)	(\$424 Q24 QE2)	(\$422 070 420\	(\$420.2E7.000\	(\$426 000 477)
	56	NET CASH FLOW	•		(₹21,293,689)	(\$5,511,532)	(\$49,029,855)	(\$04,777,563)	(\$11,046,240)	(\$04,046,982)	(\$110,065,5U/)	(\$131,921,852)	(₱123,978,138)	(ず13岁,357,088)	(⊅1∠0,909,477)

Line	Water Enterprise Financial Plan	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
57	FUND BALANCE (excl. Proposed Debt Proceeds)											
58	Beginning Balance	\$284,541,332	\$257,247,642	\$251,736,111	\$202,706,255	\$119,928,692	\$42,882,452	(\$41,164,529)	(\$152,030,036)	(\$283,951,888)	(\$407,930,027)	(\$547,287,115)
59	Net Cash Flow	(\$27,293,689)	(\$5,511,532)	(\$49,029,855)	(\$82,777,563)	(\$77,046,240)	(\$84,046,982)	(\$110,865,507)	(\$131,921,852)	(\$123,978,138)	(\$139,357,088)	(\$126,909,477)
60	ENDING BALANCE	\$257,247,642	\$251,736,111	\$202,706,255	\$119,928,692	\$42,882,452	(\$41,164,529)	(\$152,030,036)	(\$283,951,888)	(\$407,930,027)	(\$547,287,115)	(\$674,196,592)
61	Ending Balance (% of Annual O&M)	78.7%	76.6%	59.6%	34.3%	11.9%	-11.1%	-39.9%	-72.5%	-101.2%	-132.0%	-157.9%
62	Minimum Reserve Target (% of Annual O&M)	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
63							.4000000					
64	CURRENT DEBT SERVICE COVERAGE TEST											
65	Net Revenue Subject to Debt Coverage Test	\$419,940,957	\$395,226,440	\$369,437,855	\$379,030,579	\$367,086,895	\$376,596,074	\$369,709,177	\$374,374,902	\$362,725,369	\$355,921,156	\$351,766,995
66	Projected Debt Coverage	1.28	1.19	1.10	1.01	0.98	0.94	0.91	0.86	0.84	0.82	0.82
67	Required Debt Coverage	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10



Ten-Year Proposed Water Enterprise Financial Plan

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Line	Water Enterpris			FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
1	Retail Rate Rev	enue from Existing	Rates											
2	In-City Retail (ex	cl. Treasure Island)		\$315,952,677	\$320,363,230	\$311,134,470	\$315,562,071	\$312,610,863	\$310,583,793	\$307,104,623	\$304,677,067	\$302,247,320	\$301,910,414	\$300,494,150
3	Suburban Retail			\$14,262,607	\$15,741,059	\$15,221,128	\$15,440,783	\$15,242,199	\$15,090,208	\$14,848,189	\$14,678,137	\$14,508,134	\$14,470,480	\$14,368,507
4	Less Contract Ra	ate Revenue		(\$508,554)	(\$561,118)	(\$557,017)	(\$544,961)	(\$552,849)	(\$550,544)	(\$545,125)	(\$541,529)	(\$537,855)	(\$536,117)	(\$533,379)
5		nue subject to Adj	uetmonte	\$329,706,730	\$335,543,171	\$325,798,581	\$330,457,894	\$327,300,214	\$325,123,456	\$321,407,688	\$318,813,675	\$316,217,599	\$315,844,777	\$314,329,278
6	Total Nate Neve	nue subject to Auj	ustilielits	\$323,700,730	φ333,3 4 3,171	φ323,130,301	\$330,437,034	φ321,300,214	\$323,123,430	\$321,407,000	\$310,013,073	\$310,217,333	φ313,044,777	\$314,323,270
-														
7		nue Adjustments												
8	Fiscal	Revenue	Month											
9	Year	Adjustment	Effective	_				.4000						
10	FY 2024	5.0%	July	\$0	\$16,777,159	\$16,289,929	\$16,522,895	\$16,365,011	\$16,256,173	\$16,070,384	\$15,940,684	\$15,810,880	\$15,792,239	\$15,716,464
11	FY 2025	5.0%	July	\$0	\$0	\$17,104,425	\$17,349,039	\$17,183,261	\$17,068,981	\$16,873,904	\$16,737,718	\$16,601,424	\$16,581,851	\$16,502,287
12	FY 2026	5.0%	July	\$0	\$0	\$0	\$18,216,491	\$18,042,424	\$17,922,431	\$17,717,599	\$17,574,604	\$17,431,495	\$17,410,943	\$17,327,401
13	FY 2027	4.0%	July	\$0	\$0	\$0	\$0	\$15,155,636	\$15,054,842	\$14,882,783	\$14,762,667	\$14,642,456	\$14,625,192	\$14,555,017
14	FY 2028	4.0%	July	\$0	\$0	\$0	\$0	\$0	\$15,657,035	\$15,478,094	\$15,353,174	\$15,228,154	\$15,210,200	\$15,137,218
15	FY 2029	4.0%	July	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0	\$16,097,218	\$15,967,301	\$15,837,280	\$15,818,608	\$15,742,707
			,		\$0 \$0									
16	FY 2030	3.0%	July	\$0		\$0	\$0	\$0	\$0	\$0	\$12,454,495	\$12,353,079	\$12,338,514	\$12,279,311
17	FY 2031	3.0%	July	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,723,671	\$12,708,670	\$12,647,691
18	FY 2032	3.0%	July	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,089,930	\$13,027,121
19	FY 2033	3.0%	July	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,417,935
20	Total Revenue A	Adjustments		\$0	\$16,777,159	\$33,394,355	\$52,088,425	\$66,746,333	\$81,959,462	\$97,119,982	\$108,790,642	\$120,628,439	\$133,576,148	\$146,353,152
21		•												
22	REVENUE										400			
23		unua inal Adimeta	to	\$330,215,284	COEO 004 447	\$359,749,953	\$383,091,280	\$204 E00 205	\$407,633,462	\$419,072,794	\$428,145,847	\$437,383,893	\$449,957,042	\$461,215,809
		nue incl. Adjustmen	ıs		\$352,881,447			\$394,599,395						
24	CAP Use of Rev			(\$1,245,932)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)	(\$7,000,000)
25	Wholesale Wate	r Sales		\$289,598,379	\$316,979,387	\$326,505,882	\$341,633,834	\$342,654,481	\$364,404,777	\$366,410,350	\$384,657,715	\$386,956,713	\$392,273,772	\$402,060,094
26	Interest Income			\$1,109,000	\$1,133,000	\$1,300,644	\$1,186,491	\$1,086,925	\$1,378,470	\$1,335,955	\$1,224,789	\$1,658,287	\$1,630,960	\$1,710,506
27	Rental Income			\$13,136,000	\$13,595,800	\$13,964,246	\$14,321,731	\$14,688,367	\$15,064,389	\$15,450,038	\$15,845,559	\$16,251,205	\$16,667,236	\$17,093,917
28	Federal Bond Int	erest Subsidy		\$21,289,804	\$21,317,856	\$21,184,845	\$20,849,738	\$20,536,693	\$20,098,912	\$22,885,952	\$22,223,726	\$21,535,376	\$20,702,559	\$19,710,866
29	Other Misc Incon			\$12,429,431	\$13,067,577	\$13,596,883	\$14,021,344	\$14,486,674	\$14,917,017	\$17,130,431	\$17,503,215	\$17,885,542	\$18,277,657	\$18,679,810
30	Programmatic Re			\$7,156,000	\$7,158,000	\$7,277,000	\$7,202,000	\$7,223,000	\$7,234,000	\$7,277,000	\$7,328,000	\$7,380,000	\$7,431,000	\$7,083,407
31	Capacity Fees	Svenues		\$1.520.000	\$1,997,000	\$2.061.000	\$1.520.000	\$1.580.000	\$1,644,000	\$1,644,000	\$1.634.000	\$1.554.000	\$1.520.000	\$1.520.000
32	TOTAL REVENU	IF.		\$675,207,967	\$721,130,067			\$789,855,535	\$825,375,027	\$844,206,521	\$871,562,852		\$901,460,226	\$922,074,410
	IOIAL REVENU) C		\$675,207,367	\$721,130,007	\$738,640,454	\$776,826,419	\$103,000,000	\$025,375,027	\$044,200,52 I	\$071,302,032	\$883,605,016	\$501,460,226	\$922,074,410
33														
34	O&M Expenses													
35	Personnel			\$112,230,822	\$114,601,996	\$118,517,389	\$122,571,352	\$126,768,977	\$131,115,546	\$135,616,547	\$140,277,675	\$145,104,844	\$150,104,194	\$155,282,100
36	Other Non-Perso	nnel Services		\$20,712,391	\$20,476,847	\$21,091,153	\$21,723,887	\$22,375,604	\$23,046,872	\$23,738,278	\$24,450,426	\$25,183,939	\$25,939,457	\$26,717,641
37	Materials, Suppli	es & Equipment		\$19,176,058	\$19,395,185	\$19,977,040	\$20,576,352	\$21,193,642	\$21,829,451	\$22,484,335	\$23,158,865	\$23,853,631	\$24,569,240	\$25,306,317
38	Services of SFPI			\$63,140,408	\$64,047,698	\$65,969,129	\$67,948,203	\$69,986,649	\$72,086,248	\$74,248,836	\$76,476,301	\$78,770,590	\$81,133,708	\$83,567,719
39	Services of Othe			\$26,469,977	\$27,510,078	\$28,241,518	\$29,077,688	\$29,938,942	\$30,826,035	\$31,739,740	\$32,680,856	\$33,650,206	\$34,648,636	\$35,677,019
40	Hetch Hetchy As			\$49,636,000	\$46,032,000	\$49,477,000	\$51,029,000	\$52,585,000	\$53,965,000	\$55,477,000	\$57,221,000	\$58,947,000	\$60,676,000	\$62,689,000
41	Other Operating			\$1,795,868	\$3,458,368	\$3,561,643	\$3,668,017	\$3,777,582	\$3,890,434	\$4,006,671	\$4,126,395	\$4,249,712	\$4,376,727	\$4,507,553
42	Programmatic Ex	rpenses		\$33,863,389	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186	\$33,266,186
43	TOTAL O&M			\$327,024,913	\$328,788,358	\$340,101,058	\$349,860,685	\$359,892,582	\$370,025,772	\$380,577,592	\$391,657,705	\$403,026,107	\$414,714,148	\$427,013,536
44														
45	NET REVENUE			\$348,183,054	\$392,341,709	\$398,539,395	\$426,965,734	\$429,962,954	\$455,349,256	\$463,628,928	\$479,905,147	\$480,578,909	\$486,746,078	\$495,060,874
46				, ,			,,	,,	,,	, ,	,,	, ,	, . , ,	
47	DEBT SERVICE													
				0000 050 115	0000 400 40-	#000 cos 700	0045 754 405	0044 700 040	#040 007 70 :	#040 400 00 =	#0.40.000.000	#047.550.04	6040 455 070	#0.44.000.000
48	Existing Debt Se			\$328,352,143	\$333,499,425	\$333,635,790	\$345,754,465	\$344,766,842	\$342,987,734	\$349,133,265	\$349,286,883	\$347,553,611	\$348,155,670	\$341,823,983
49	Proposed Debt S		,	\$0	\$0	\$1,751,735	\$27,898,491	\$29,690,107	\$56,432,137	\$58,261,233	\$85,562,710	\$85,562,710	\$85,562,710	\$85,562,710
50	TOTAL DEBT SI	ERVICE		\$328,352,143	\$333,499,425	\$335,387,524	\$373,652,956	\$374,456,949	\$399,419,870	\$407,394,498	\$434,849,593	\$433,116,321	\$433,718,379	\$427,386,693
51														
50	FUNDING FOR I	PAY-AS-YOU-GO C	IP											
51	Capacity Fees			\$1,520,000	\$1,997,000	\$2,061,000	\$1,520,000	\$1,580,000	\$1,644,000	\$1,644,000	\$1,634,000	\$1,554,000	\$1,520,000	\$1,520,000
52				\$20,604,600	\$20,579,658	\$51,559,000	\$57,100,000	\$38,545,000	\$30,000,000	\$42,000,000	\$40,327,975	\$27,600,000	\$35,698,998	\$23,000,000
53	Regional Revenu			\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$20,000,000	\$19,958,681	\$22,000,000
54	TOTAL FUNDIN	G FOR PAY-AS-YO	U-GO CIP	\$47,124,600	\$47,576,658	\$78,620,000	\$83,620,000	\$65,125,000	\$56,644,000	\$68,644,000	\$66,961,975	\$49,154,000	\$57,177,679	\$46,520,000
55						7								
56	NET CASH FLO	w		(\$27,293,689)	\$11,265,627	(\$15,468,129)	(\$30,307,222)	(\$9,618,995)	(\$714,615)	(\$12,409,570)	(\$21,906,421)	(\$1,691,413)	(\$4,149,980)	\$21,154,181
				·· , ··,···		·· · · · · · · · · · · · · · · · · · ·	·· · · · · · · · · · · · · · · · · · ·	,. , -,	· · · · · ·		. , . , . , . ,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	

Line	Water Enterprise Financial Plan	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
57	FUND BALANCE (excl. Proposed Debt Proceeds)											
58	Beginning Balance	\$284,541,332	\$257,247,642	\$268,513,269	\$253,045,140	\$222,737,918	\$213,118,923	\$212,404,308	\$199,994,738	\$178,088,318	\$176,396,905	\$172,246,924
59	Net Cash Flow	(\$27,293,689)	\$11,265,627	(\$15,468,129)	(\$30,307,222)	(\$9,618,995)	(\$714,615)	(\$12,409,570)	(\$21,906,421)	(\$1,691,413)	(\$4,149,980)	\$21,154,181
60	ENDING BALANCE	\$257,247,642	\$268,513,269	\$253,045,140	\$222,737,918	\$213,118,923	\$212,404,308	\$199,994,738	\$178,088,318	\$176,396,905	\$172,246,924	\$193,401,106
61	Ending Balance (% of Annual O&M)	78.7%	81.7%	74.4%	63.7%	59.2%	57.4%	52.6%	45.5%	43.8%	41.5%	45.3%
62	Minimum Reserve Target (% of Annual O&M)	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%
63							40000					
64	CURRENT DEBT SERVICE COVERAGE TEST											
65	Net Revenue Subject to Debt Coverage Test	\$419,940,957	\$412,003,598	\$402,999,581	\$431,500,920	\$434,514,140	\$459,928,442	\$468,165,114	\$484,390,333	\$485,012,095	\$491,128,264	\$499,830,653
66	Projected Debt Coverage	1.28	1.24	1.20	1.15	1.16	1.15	1.15	1.11	1.12	1.13	1.17
67	Required Debt Coverage	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10



APPENDIX B:

Water Cost of Service: **O&M Functional Allocations**

		Account Leve		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
WTR01 Administration	UW Administration WTR	5010Salary	Perm Salaries-Misc-Regular		100% Indirect - General
WTR01 Administration	UW Administration WTR	5010Salary	Ret Payout - SP & Vac - Misc	\$353,349	100% Indirect - General
WTR01 Administration	UW Administration WTR	5010Salary	Temp Misc Regular Salaries	\$270,345	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Dental Coverage	\$13,626	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Dependent Coverage	\$153,048	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Flexible Benefit Package	\$19,424	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Fringe Adjustments-Budget	\$113,225	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Health Service-Admin Cost	\$202,974	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Health Service-City Match	\$59.531	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Health Service-Retiree Subsidy	\$4,837,318	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Long Term Disability Insurance	\$5,252	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Retire City Misc	\$329,969	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Retiree Health-Match-Prop B	\$18,526	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	RetireeHlthCare-CityMatchPropC	\$11.378	100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Social Sec-Medicare(HI Only)		100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Social Security (OASDI & HI)		100% Indirect - General
WTR01 Administration	UW Administration WTR	5130Fringe	Unemployment Insurance		100% Indirect - General
WTR01 Administration	UW Administration WTR	5200OHAllo	Department Overhead		100% Bureau
WTR01 Administration	UW Administration WTR	5210NPSvcs	Air Travel - Employees		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Employee Field Expenses-Budget		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Judgements & Claims-Budget	**************************************	100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Membership Fees		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Non-Air Travel - Employees		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Other Current Expenses - Bdgt		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Other Equip Maint		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Prof & Specialized Svcs-Bdgt		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Rents-Leases-Bldgs&Struct-Bdgt		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Software Licensing Fees		100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$24.267	100% Indirect - General
WTR01 Administration	UW Administration WTR	5210NPSvcs	Training - Budget		100% Indirect - General
WTR01 Administration	UW Administration WTR	5400Mat&Su	Data Processing Supplies		100% Indirect - General
WTR01 Administration	UW Administration WTR	5400Mat&Su	Food	\$7.600	100% Indirect - General
WTR01 Administration	UW Administration WTR	5400Mat&Su	Minor Data Processing Equipment	. ,	100% Indirect - General
WTR01 Administration	UW Administration WTR	5400Mat&Su	Other Equipment Maint Supplies	\$475	100% Indirect - General
WTR01 Administration	UW Administration WTR	5400Mat&Su	Other Materials & Supplies	\$91,427	100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	DT Technology Infrastructure		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	DT Telecommunications Services		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-Bus & Ecn Dev		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-Chs-Medical Service		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-Chs-Toxic Waste&Haz Mat Svc		100% Treatment
WTR01 Administration	UW Administration WTR	5810OthDep	GF-City Attorney-Legal Service		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-Emergency Communications		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-Environment		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-HR-Employee Relations		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-HR-Workers' Comp Claims	, .	100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	GF-Risk Management Svcs (AAO)		100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	Is-Purch-Reproduction	. , ,	100% Indirect - General
WTR01 Administration	UW Administration WTR	5810OthDep	Sr-CWP-Clean Water Department		100% Indirect - General
WTR01 Administration	UW Administration WTR	5910 OTO	OTO To 2S/GSF-General Svcs Fd		100% Indirect - General
WTR01 Administration	UW Administration WTR	5910 OTO	OTO To 5T-Hetch Hetchy W&P Fds	,	100% Surface Water Supply
** II to i Administration	OTT / WITH HOU GUOTI VV III	0010_010	OTO TO OT-HOLOTTHOLOTTY WAT TUS	ψ+0,002,000	10070 Carlado Francis Cappiy

		Account Level		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
·					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5010Salary	Overtime - Scheduled Misc	\$311,325	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
-					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5010Salary	Perm Salaries-Misc-Regular	\$6,471,778	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
-			, and the second		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5010Salary	Premium Pay - Misc	\$210,700	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
-			,		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5010Salary	Temp Misc Regular Salaries	\$9.800	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
3		,	· J		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5130Fringe	Dental Coverage	\$63,030	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				on on one of the party of the p	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5130Fringe	Dependent Coverage		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
			- spannam saranga	7111,111	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIW Water Distribution	5130Fringe	Flexible Benefit Package	\$9 712	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
			- In the second	7-1.	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIW Water Distribution	5130Fringe	Health Service-City Match	\$159 381	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
I regram and man	Ott Tratel Blourbauer	o roor range	Floatian Convict City materi	\$100,001	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIW Water Distribution	5130Fringe	Long Term Disability Insurance	\$12 767	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
Tricoor obb riogram and man	Ott Tratel Blourbauer	o roor range	zerig reini zieazini, inearanee	V.2,	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIW Water Distribution	5130Fringe	Retire City Misc	\$921.612	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
VV 110001 ODD 1 Togram and Wal	THE COLOR DISTIBUTION	o roor range	reduce only ivindo	Ψ021,012	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int I IW Water Distribution	5130Fringe	Retiree Health-Match-Prop B	\$43 387	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 110001 ODD 1 Togram and Wal	III OVV VValci Distribution	5 Tool Tilige	Netiree Fleatur-Materi-Frop B		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIM Water Distribution	5130Fringe	RetireeHlthCare-CityMatchPropC		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 110301 CDD 110grain and War	III OW Water Distribution	3 1301 Tillige	Netireer litricare-citywaterir rope	* *************************************	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIM Water Distribution	5130Fringe	Social Sec-Medicare(HI Only)		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 1 K030 1 CDD Flogram and Wal	III OVV Water Distribution	3 130Fillige	Social Sec-inedicale(Fil Offly)	\$101,551	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int I IIV Water Distribution	5130Fringe	Social Security (OASDI & HI)	¢407.400	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 1 K030 1 CDD Flogram and War	III OW Water Distribution	3 130Fillige	Social Security (OASDI & Fil)	\$421,420	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	ind INA Mater Distribution	5130Fringe	Unemployment Insurance	¢7,000	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 1 R0301 CDD Program and Mai	ITH OVV Water Distribution	5 130Fillige	Oriempioyment insurance	\$7,009	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int LIM Water Distribution	5210NPSvcs	Maint Svcs-Equipment-Budget	¢242.250	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 1 K030 1 CDD Flogram and War	III OW Water Distribution	32 IUNF 3VCS	Wallit 3vcs-Equipment-Budget	\$242,230	·
WTD0004 ODD D M	ind I BA/ VA/-to-a Distable sties.	5210NPSvcs	Oth Comment Francisco Blad	60.07 5	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7% Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0301 CDD Program and Mai	III OVV Water Distribution	32 IUNPSVCS	Other Current Expenses - Bdgt	\$2,373	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTD0004 ODD D M	ind I BA/ VA/-t Di-t-ibti	5210NPSvcs	Deuts & Leases Faulum aut Dat	¢44.050	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0301 CDD Program and Mai	ini Uvv Water Distribution	52 TUNPSVCS	Rents & Leases-Equipment-Bdgt	\$44,050	
WTD0004 ODD D M	ind I BA/ VA/-to Distribution	E400N4-49.C	Data Barrasaina Complias	C475	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	ini Uvv vvater Distribution	5400Mat&Su	Data Processing Supplies	\$475	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W/TD0004 ODD D	CIRCUM C STATE OF	E40014 100	E 1 01 1 : 1	0004.400	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	ini Uvv vvater Distribution	5400Mat&Su	Fuels & Lubricants	\$324,162	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		5,000,000		A. ===	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	inf UW Water Distribution	5400Mat&Su	Minor Data Processing Equipment	\$4,750	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	Int UW Water Distribution	5400Mat&Su	Other Bldg Maint Supplies	, , .	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
l			A		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	Int UW Water Distribution	5400Mat&Su	Other Equipment Maint Supplies	, .	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$2,375	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5400Mat&Su	Other Materials & Supplies	\$78,821	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0301 CDD Program and Mai	int UW Water Distribution	5400Mat&Su	Other Safety Expenses	\$13,300	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		VIII. (100)			

		Account Leve		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5010Salary	Overtime - Scheduled Misc	\$15,498	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5010Salary	Perm Salaries-Misc-Regular	\$2,657,956	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5010Salary	Premium Pay - Misc	\$77,507	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5010Salary	Temp Misc Regular Salaries	\$88,200	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Dental Coverage	\$22,891	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Dependent Coverage	\$251,768	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Flexible Benefit Package	\$9,712	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Health Service-City Match	\$113,348	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Long Term Disability Insurance	\$8,064	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Retire City Misc	\$376,621	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Retiree Health-Match-Prop B	\$17,591	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	RetireeHlthCare-CityMatchPropC	\$10,805	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Social Sec-Medicare(Hl Only)	\$41,167	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
l					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Social Security (OASDI & HI)	\$164,926	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		E400E :		******	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5130Fringe	Unemployment Insurance	\$2,838	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WITDOOD ODD A L	I BA / JA / 4 B' / 3 4'	FOANIDO	E I EUE BUI	04.005	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Employee Field Expenses-Budget	\$1,235	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
MATERIAL CORP. Advanta	I BA/ M/-t Di-t-ibti	FOAONIDO:	Face Lineare Demaits	£440 F00	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7% Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Fees Licenses Permits	\$146,593	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
MATERIAL CORP. Advanta	I BA/ M/-t Di-t-ibti	FO40NIDO:	Maint Core Dides & Insents Dalet	CO4 700	
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$94,702	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General 7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Maint Svcs-Equipment-Budget	¢22 200	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W I K0302 CDD Admin	OW Water Distribution	32 TUNE SVCS	Maint Svcs-Equipment-Budget	φ33,300	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Other Current Expenses - Bdgt	\$24,700	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 11(0302 CDD Admin	OW Water Distribution	32 TOTAL 3403	Other Current Expenses - Bugt	Ψ24,700	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Rents-Leases-Bldgs&Struct-Bdgt	\$086 310	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTTCOOL ODD Admin	OVV VValci Distribution	32 10141 OVC3	Nonta-Leases-Blagswort det-Bagt	ψ500,515	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Software Licensing Fees	\$950	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
TTTTOOL ODD Admill	OTT TTALE DISTINGUOT	02 10141 OVCS	Coltrare Electroning 1 ccs	υσου	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$60,432	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		52.5.1. 5700	Land Dage	\$55,402	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5400Mat&Su	Data Processing Supplies	\$3,800	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		0.00	reasoning cappings	\$3,000	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5400Mat&Su	Minor Data Processing Equipment	\$5 700	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				\$5,.00	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5400Mat&Su	Other Equipment Maint Supplies	\$1.900	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
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		Account Leve		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
popers i ilio					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$3.325	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
			1, 2	, , , , ,	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5400Mat&Su	Other Materials & Supplies	\$66,772	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5400Mat&Su	Other Safety Expenses	\$475	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5600CapOut	Automotive & Other Vehicles	\$38,662	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				4111174	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5810OthDep	Is-Purch-Centrl Shop-AutoMaint	\$44,820	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5810OthDep	ls-Purch-Centrl Shop-FuelStock	\$6,115	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0302 CDD Admin	UW Water Distribution	5810OthDep	PUC Sewer Service Charges	\$84,495	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5010Salary	Holiday Pay - Misc	\$26,460	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5010Salary	Overtime - Scheduled Misc	\$383,814	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5010Salary	Perm Salaries-Misc-Regular	\$3,041,681	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5010Salary	Premium Pay - Misc	\$257,358	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5010Salary	Temp Misc Regular Salaries	\$68,600	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Dental Coverage	\$29,204	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Dependent Coverage	\$355,248	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Health Service-City Match	\$96,865	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Long Term Disability Insurance	\$11,854	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Retire City Misc	\$434,026	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Retiree Health-Match-Prop B	\$23,406	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	RetireeHlthCare-CityMatchPropC	\$14,373	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Social Sec-Medicare(Hl Only)	\$54,774	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Social Security (OASDI & HI)	\$232,368	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5130Fringe	Unemployment Insurance	\$3,775	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$471,632	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5210NPSvcs	Maint Svcs-Equipment-Budget	\$38,475	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5210NPSvcs	Other Current Expenses - Bdgt	\$39,425	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		.			7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$5,047	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General

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Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Data Processing Supplies	\$1,425	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
			0 11		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Fuels & Lubricants	\$33,250	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Minor Data Processing Equipment	\$9,500	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Other Bldg Maint Supplies	\$146,803	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Other Equipment Maint Supplies	\$33,250	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
-					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Other Materials & Supplies	\$154,030	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Other Safety Expenses	\$19,570	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5400Mat&Su	Water &Sewage Treatment Supply	\$28,500	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5810OthDep	GF-Fire	\$322,495	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Distribution	5810OthDep	GF-Rec & Park-Gardener	\$1,187,962	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0303 CDD Bldgs & Grounds	UW Water Transmission WTR	5810OthDep	GF-PUC-Light Heat & Power	\$4,692,823	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5010Salary	Overtime - Scheduled Misc	\$6,185	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5010Salary	Perm Salaries-Misc-Regular	\$744,317	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Dental Coverage	\$4,793	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Dependent Coverage	\$52,870	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
l					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Health Service-City Match	\$23,825	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				***	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Long Term Disability Insurance	\$2,372	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WITDOOG LODD E	LBACIAC C Di Cil C	E400E :	D. (1. 01. 15	000.040	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Retire City Misc	\$99,218	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTD0204 CDD Engineering	LIM Mater Distribution	E120Erings	Detires Health Match Drep B	¢4 GEO	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7% Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Retiree Health-Match-Prop B	\$4,000	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	RetireeHlthCare-CityMatchPropC	\$2.055	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0304 CDD Engineering	OW Water Distribution	3 130Fillige	RetireeritinGare-CityWatchFropC	\$2,000	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Social Sec-Medicare(HI Only)	¢10 001	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0304 CDD Engineering	OW Water Distribution	3 130Fillige	Social Sec-Medicale(Fil Offly)	\$10,004	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Social Security (OASDI & HI)	¢22 010	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 1R0304 CDD Engineering	OW Water Distribution	3 130Fillige	Social Security (OASDI & Fil)	φ32,019	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5130Fringe	Unemployment Insurance	\$752	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
THE COOT ODD LINGUISCOING	OTT TTGGG DISTRIBUTION	5 7501 Tillige	Onomproyment indurance	ΨΙ ΌΖ	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5210NPSvcs	Other Current Expenses - Bdgt	\$2.850	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
THE COUNTY OF PERSONS AND PROPERTY.	OTT TTGGT DISTIDUTOR	02 10141 OV03	Carlot Carrott Expenses - Dugt	Ψ2,030	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$928 845	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
	CT. Tracor Diotribution	5210111 0103		Ψ020,040	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5210NPSvcs	Software Licensing Fees	\$44.650	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
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Dept ID Title	Project Title	5 Title	Account Title		Functional Allocation Basis
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	1 /	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
l			L		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5400Mat&Su	Data Processing Supplies		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WITDOOM ODD F : :	1844 AV 4 B: 4 T 4:	E400M 100			7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0304 CDD Engineering	UW Water Distribution	5400Mat&Su	Minor Data Processing Equipmnt		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0304 CDD Engineering	UW Water Distribution	5400Mat&Su	Other Materials & Supplies		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7% Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 1 R0304 CDD Engineering	OW Water Distribution	5400เพลเฉรน	Other Materials & Supplies		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5010Salary	Holiday Pay - Misc		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 110303 CDD Collst & Mailit	OW Water Distribution	30 To Galary	Floriday Flay - IVIISC	Action of the Control	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5010Salary	Overtime - Scheduled Misc		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
THE COURT OF THE C	OTT Traisi Biotributori	oo roodiai y	O VOI LIIII O O O II O O O O O O O O O O O	000000000	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5010Salary	Perm Salaries-Misc-Regular		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
		, i			7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5010Salary	Premium Pay - Misc	\$744,008	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5010Salary	Temp Misc Regular Salaries	\$12,555	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Dental Coverage		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Dependent Coverage		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
l					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Health Service-City Match		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
MATROSOF CDD Comet 8 Marint	LDA/ M/-t Di-t-ibti	54205-i	Lawa Tama Dia shiika baayaan		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7% Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Long Term Disability Insurance		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Retire City Misc		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W 11(0303 CDD Const & Waint	OW Water Distribution	3 Tool Tillige	reduce Oity Wilde	700000000000000000000000000000000000000	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Retiree Health-Match-Prop B		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	RetireeHlthCare-CityMatchPropC	\$38,181	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Social Sec-Medicare(HI Only)	\$145,542	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Social Security (OASDI & HI)		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5130Fringe	Unemployment Insurance		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WITDOOS ODD O LANCE	Indian a District	FOLIONIDO	F 1: B 3		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5210NPSvcs	Fees Licenses Permits	1 /	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General 7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
W I R0303 CDD Collst & Mailit	OW Water Distribution	32 IUNF 3VCS	Ivialiti Svcs-Bidgs & Impvts-Bugt	1 /	7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5210NPSvcs	Rents & Leases-Equipment-Bdgt		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
William Color Carlot Ca	OV VIdeo Biodibadon	0210141 0400	None & Education Equipment Bugt		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Data Processing Supplies		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
			5		7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Fuels & Lubricants	\$85,500	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Minor Data Processing Equipmnt		Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
					7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Other Bldg Maint Supplies	\$858,469	Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General

		Account Leve	l de la companya de	FY 2024 O&M
Dept ID Title	Project Title	5 Title	Account Title	Expenses Functional Allocation Basis
·				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Other Equipment Maint Supplies	\$95,000 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Other Materials & Supplies	\$71,725 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5400Mat&Su	Other Safety Expenses	\$119,771 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5600CapOut	Automotive & Other Vehicles	\$184,220 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5600CapOut	Other Equipment	\$714,209 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5810OthDep	GF-GSA-Facilities Mgmt Svcs	\$76,656 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5810OthDep	Sr-DPW-Street Use & Mapping	\$53,045 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
l				7.8% Pumping / 7.4% Transmission / 23.4% Distribution / 1.0% Storage / 2.1% Meters / 9.7%
WTR0305 CDD Const & Maint	UW Water Distribution	5810OthDep	Sr-SAS-Urban Forestry	\$1,071,520 Hydrants/AWSS / 0.1% Fire Sprinklers / 9.4% Customer / 39.0% Indrect - General
WTR0401 WQD Administration	UW Water Treatment	5010Salary	Overtime - Scheduled Misc	\$5,096 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5010Salary	Perm Salaries-Misc-Regular	\$1,278,504 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5010Salary	Premium Pay - Misc	\$5,390 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5010Salary	Temp Misc Regular Salaries	\$24,304 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Dental Coverage	\$10,138 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Dependent Coverage	\$109,226 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Flexible Benefit Package	\$9,712 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Health Service-City Match	\$53,688 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Long Term Disability Insurance	\$3,370 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Retire City Misc	\$181,926 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Retiree Health-Match-Prop B	\$8,139 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$4,998 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Social Sec-Medicare(HI Only)	\$19,042 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Social Security (OASDI & HI)	\$74,400 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5130Fringe	Unemployment Insurance	\$1,315 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Employee Field Expenses-Budget	\$3,800 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$100,700 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Maint Svcs-Equipment-Budget	\$9,975 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Other Current Expenses - Bdgt	\$59,850 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Other Equip Maint	\$80,057 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Other Equipment Rentals	\$2,850 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$217,550 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Software Licensing Fees	\$76,000 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Subscriptions	\$9,500 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$541,500 100% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5210NPSvcs	Utilities Expenses-Budget	\$28,500 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5400Mat&Su	Food	\$1,900 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5400Mat&Su	Minor Data Processing Equipment	\$71,250 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5400Mat&Su	Other Bldg Maint Supplies	\$14,250 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5400Mat&Su	Other Equipment Maint Supplies	\$4,750 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5400Mat&Su	Other Materials & Supplies	\$118,265 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5400Mat&Su	Other Safety Expenses	\$24,258 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5600CapOut	Automotive & Other Vehicles	\$35,438 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5810OthDep	DT Technology Projects	\$20,000 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality

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WTR0401 WQD Administration	UW Water Treatment	5810OthDep	GF-PUC-Light Heat & Power	\$103,000 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5810OthDep	ls-Purch-Reproduction	\$25,750 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0401 WQD Administration	UW Water Treatment	5810OthDep	Sr-SAS-Building Repair	\$100,000 1.6% Distribution / 3.2% Treatment / 95.2% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5010Salary	Overtime - Scheduled Misc	\$2,450 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5010Salary	Perm Salaries-Misc-Regular	\$4,038,899 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5010Salary	Premium Pay - Misc	\$72,830 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5010Salary	Temp Misc Regular Salaries	\$52,430 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Dental Coverage	\$25,378 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Dependent Coverage	\$290,020 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Health Service-City Match	\$108,816 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Long Term Disability Insurance	\$14,086 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Retire City Misc	\$565,285 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Retiree Health-Match-Prop B	\$25,813 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$15,852 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Social Sec-Medicare(HI Only)	\$60,419 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Social Security (OASDI & HI)	\$218.607 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5130Fringe	Unemployment Insurance	\$4,167 5.6% Distribution / 11.1% Treatment / 83.3% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5210NPSvcs	Other Current Expenses - Bdgt	\$4,750 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5210NPSvcs	Other Equip Maint	\$86,660 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5210NPSvcs	Prof & Specialized Svcs-Bdqt	\$753,350 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5210NPSvcs	Software Licensing Fees	\$28,500 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5400Mat&Su	Food	\$1,900 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5400Mat&Su	Other Equipment Maint Supplies	\$31,350 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$142,500 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5400Mat&Su	Other Materials & Supplies	\$47,500 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5400Mat&Su	Other Safety Expenses	\$4,750 100% Water Quality
WTR0402 WQD Engineering	UW Water Treatment	5600CapOut	Medical, Dental & Lab Equipmnt	\$20,534 100% Water Quality
WTR0403 WQD Envnmtl Services		5010Salary	Overtime - Scheduled Misc	\$75,685 100% Water Quality
WTR0403 WQD Envnmtl Services		5010Salary	Perm Salaries-Misc-Regular	\$2,404,540 100% Water Quality
WTR0403 WQD Envnmtl Services		5010Salary	Premium Pay - Misc	\$434,367 100% Water Quality
WTR0403 WQD Envnmtl Services		5010Salary	Temp Misc Regular Salaries	\$27,048 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Dental Coverage	\$20,387 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Dependent Coverage	\$252,366 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Health Service-City Match	\$68,924 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Long Term Disability Insurance	\$8,797 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Retire City Misc	\$339.414 100% Water Quality
WTR0403 WQD Environt Services		5130Fringe	Retiree Health-Match-Prop B	\$18,226 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	RetireeHlthCare-CityMatchPropC	\$11,194 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Social Sec-Medicare(HI Only)	\$42.652 100% Water Quality
WTR0403 WQD Environt Services		5130Fringe	Social Security (OASDI & HI)	\$178,397 100% Water Quality
WTR0403 WQD Envnmtl Services		5130Fringe	Unemployment Insurance	\$2,943 100% Water Quality
WTR0403 WQD Environt Services		5210NPSvcs	Other Current Expenses - Bdgt	\$4,750 100% Water Quality
WTR0403 WQD Envirint Services		5210NPSvcs	Other Equip Maint	\$19,000 100% Water Quality
WTR0403 WQD Environt Services		5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$403,750 100% Water Quality
WTR0403 WQD Environt Services		5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$4,750 100% Water Quality
WTR0403 WQD Envirint Services		5210NPSvcs	Software Licensing Fees	\$29.743 100% Water Quality
WTR0403 WQD Envirint Services		5210NPSvcs	Subscriptions	\$4,750 100% Water Quality
WTR0403 WQD Envirint Services		5210NPSvcs		\$1,330 100% Water Quality
			Taxes, Licenses & Permits-Bdgt	• • • • • • • • • • • • • • • • • • • •
WTR0403 WQD Envnmtl Services		5400Mat&Su	Minor Data Processing Equipment	\$14,250 100% Water Quality
WTR0403 WQD Envnmtl Services	OVV VValer Treatment	5400Mat&Su	Other Equipment Maint Supplies	\$14,250 100% Water Quality

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WTR0403 WQD Envnmtl Services	UW Water Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$118,750	100% Water Quality
WTR0403 WQD Envnmtl Services	UW Water Treatment	5400Mat&Su	Other Materials & Supplies	\$47,500	100% Water Quality
WTR0403 WQD Envnmtl Services	UW Water Treatment	5400Mat&Su	Other Safety Expenses	\$23,750	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5010Salary	Overtime - Scheduled Misc	\$2,940	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5010Salary	Perm Salaries-Misc-Regular	\$3,603,449	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5010Salary	Premium Pay - Misc	\$68,104	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5010Salary	Temp Misc Regular Salaries	\$75,215	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Dental Coverage	\$24,366	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Dependent Coverage	\$275,881	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Flexible Benefit Package	\$4,856	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Health Service-City Match	\$107,771	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Long Term Disability Insurance	\$11,677	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Retire City Misc	\$508,232	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Retiree Health-Match-Prop B	\$23,234	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$14,262	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Social Sec-Medicare(HI Only)		100% Water Quality
	UW Water Treatment	5130Fringe	Social Security (OASDI & HI)	,	100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5130Fringe	Unemployment Insurance		100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5210NPSvcs	Fees Licenses Permits		100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5210NPSvcs	Other Current Expenses - Bdqt		100% Water Quality
	UW Water Treatment	5210NPSvcs	Other Equip Maint		100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5210NPSvcs	Prof & Specialized Svcs-Bdgt		100% Water Quality
	UW Water Treatment	5210NPSvcs	Software Licensing Fees	400.000.000	100% Water Quality
	UW Water Treatment	5400Mat&Su	Other Equipment Maint Supplies		100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply		100% Water Quality
	UW Water Treatment	5400Mat&Su	Other Materials & Supplies		100% Water Quality
WTR0404 WQD Labs	UW Water Treatment	5600CapOut	Medical, Dental & Lab Equipmnt	,	100% Water Quality
	UW Water Transmission WTR	5010Salary	Overtime - Scheduled Misc		32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5010Salary	Perm Salaries-Misc-Regular	\$1,781,010	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5010Salary	Premium Pay - Misc		32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5010Salary	Temp Misc Regular Salaries	\$67.620	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5130Fringe	Dental Coverage	\$14.841	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5130Fringe	Dependent Coverage	\$160.757	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5130Fringe	Flexible Benefit Package	\$9.712	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5130Fringe	Health Service-City Match	\$77.256	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5130Fringe	Long Term Disability Insurance	\$4.881	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5130Fringe	Retire City Misc	T 1,1	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5130Fringe	Retiree Health-Match-Prop B	00000000	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5130Fringe	RetireeHlthCare-CityMatchPropC	¥ : : ; = : =	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5130Fringe	Social Sec-Medicare(HI Only)	, ,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5130Fringe	Social Security (OASDI & HI)		32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5130Fringe	Unemployment Insurance	,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5210NPSvcs	Employee Field Expenses-Budget	T -,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5210NPSvcs	Rents & Leases-Equipment-Bdgt	Ţ.,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	. ,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5400Mat&Su	Food	. ,,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5400Mat&Su	Other Materials & Supplies	+-,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
	UW Water Transmission WTR	5400Mat&Su	Other Safety Expenses	, .,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5810OthDep	Is-Purch-Centrl Shop-AutoMaint	T .,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
WTR0501 WST Admin	UW Water Transmission WTR	5810OthDep	Is-Purch-Centri Shop-FuelStock	. ,	32.3% Transmission / 12.0% Treatment / 49.9% Indirect - General
TTTTCOOT TO LAUTHIN	CTT TYAICH THAISITHSSIUIT WITH	2010OttiDeh	io i dion-ochin onop-i delotock	ψυΖΌ	22.070 Transmission / 12.070 Tradition / 40.070 Indicate - October

		Account Leve		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5010Salary	Overtime - Scheduled Misc	\$191,198	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
·					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5010Salary	Perm Salaries-Misc-Regular	\$6,083,085	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5010Salary	Premium Pay - Misc	\$392,000	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5010Salary	Temp Misc Regular Salaries	\$94,840	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Dental Coverage	\$60,671	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
MTDOSOO MOT DI LILII	LDAVIAL (T : NATE	E400E :	D 1 10	A707.007	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Dependent Coverage	\$787,827	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
WTR0502 WST Distribution Ops	UW Water Transmission WTR	E120Eringo	Flexible Benefit Package	¢4.056	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping / 81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
W 1 R0502 W S 1 Distribution Ops	OW Water Hansmission WTR	5130Fringe	Flexible Berleiit Package	\$4,000	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Health Service-City Match	\$166 770	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
W110302 W31 Distribution Ops	OVV Water Transmission WTT	3 1301 Hillige	riealth Service-City Match	ψ100,770	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Long Term Disability Insurance	\$19 445	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
11 11 10002 11 0 1 2 10 11 12 11 10 11 0 pc	OTT Trade Transmission TTTT	0 1001 1111g0	25.1g Total Disability insurance	\$10,110	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Retire City Misc	\$867.019	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
		J			8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Retiree Health-Match-Prop B	\$41,898	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
·					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	RetireeHlthCare-CityMatchPropC	\$25,725	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Social Sec-Medicare(HI Only)	\$98,050	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Social Security (OASDI & HI)	\$409,819	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
l					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5130Fringe	Unemployment Insurance	\$6,751	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
WTD0500 WCT Distribution One	LNA/ M/-t Tii M/TD	FOAONIDO:	Others Family Mariet	¢57,000	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping / 81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5210NPSvcs	Other Equip Maint	\$57,000	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$166.250	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
W110302 W31 Distribution Ops	OVV Water Transmission WTT	32 TOTAL SVCS	Troi & Specialized Svcs-Bugi	ψ100,230	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$14.250	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
WITCOOL WOT Blottleductrops	OV Water Handingston Will	0210141 0100	rtonio di Eddoo Equipmont Bugt	ψ14,200	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5210NPSvcs	Software Licensing Fees	\$3,325	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
			,	11/1	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5400Mat&Su	Other Equipment Maint Supplies	\$203,300	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
·					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5400Mat&Su	Other Materials & Supplies	\$38,000	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5400Mat&Su	Other Safety Expenses	\$94,888	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5600CapOut	Automotive & Other Vehicles	\$254,957	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
					8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	UW Water Transmission WTR	5600CapOut	Equipment Purchase-Budget	\$0	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General
WTD0500 W0T 5: : : : :	I BALLAL I TO THE STATE OF THE	50406" 5	05 PHO 11 (1 1/1)	*****	8.9% Surface Water Supply / 0.1% Alternative Water Supply / 0.6% Groundwater / 0.2% Pumping /
WTR0502 WST Distribution Ops	Uvv Water Transmission WTR	5810OthDep	GF-PUC-Hetch Hetchy	\$297,052	81.8% Transmission / 0.4% Distribution / 0.5% Storage / 7.1% Treatment / 0.4% Indirect - General

		Account Leve	ı	FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5010Salary	Overtime - Scheduled Misc	\$49,431	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5010Salary	Perm Salaries-Misc-Regular	\$2,777,469	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5010Salary	Temp Misc Regular Salaries	\$122,527	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Dental Coverage	\$18,256	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
l				4000773	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Dependent Coverage	\$207,613	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
l					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Flexible Benefit Package	\$0	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
INTERESE MOTAL: 4 F	LBACIAC C C C SACED	5400E :		070.055	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Health Service-City Match	\$79,655	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
WTR0503 WST Maint Engr	UW Water Transmission WTR	E120Erings	Long Torm Dischility Incurance	¢0 540	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2% Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
WTR0503 WST Maint Engr	OW Water Transmission WTR	5130Fringe	Long Term Disability Insurance	\$9,542	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Retire City Misc	¢380 233	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
W 110303 W 31 Walift Eligi	OW Water Hansinission WTT	3 1301 Tillige	Retire City Wisc	ψ009,200	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Retiree Health-Match-Prop B	\$18 275	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
William Engi	OV VICE Hallomicolom VIII	o roor ringo	Treamed Health Water Free B	Ψ10,210	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	RetireeHlthCare-CityMatchPropC	\$11 222	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
Trinicoso tro i maini Engi	CT Trails Trails Color TT TT	o roor ringo	rioures, mireure enjimaterii repe	V.1,222	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Social Sec-Medicare(HI Only)	\$42.768	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
g g		J	, , , , , ,		5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Social Security (OASDI & HI)	\$157,071	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5130Fringe	Unemployment Insurance	\$2,951	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5210NPSvcs	Employee Field Expenses-Budget	\$1,900	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5210NPSvcs	Maint Svcs-Equipment-Budget	\$4,750	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
		50101/00	011 0 15 011	***	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5210NPSvcs	Other Current Expenses - Bdgt	\$25,080	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
WTR0503 WST Maint Engr	UW Water Transmission WTR	5210NPSvcs	Software Licensing Fees	¢40.00F	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2% Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
VV I NOOOS VV S I IVAIIILEIIGE	OVV VVALEI ITAIISIIIISSIOII VV IR	32 IUNPSVCS	Software Licensing Fees	\$10,905	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5210NPSvcs	Subscriptions	\$5,000	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
Wallit Liigi	OTT TYRICI TRANSMISSION WITH	OZ TOME GVCS	Capacipions	φ5,900	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$23.750	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
		7,00	, and an animal Bugs	ţ=5,1 0 0	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5400Mat&Su	Data Processing Supplies	\$2,850	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
			5		5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5400Mat&Su	Fuels & Lubricants	\$7,125	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5400Mat&Su	Minor Data Processing Equipmnt	\$6,650	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
					5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5400Mat&Su	Other Equipment Maint Supplies	\$10,450	Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
		5400Mat&Su			5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2% Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
WTR0503 WST Maint Engr	UW Water Transmission WTR		Other Materials & Supplies		

		Account Leve	l e	FY 2024 O&M
Dept ID Title	Project Title	5 Title	Account Title	Expenses Functional Allocation Basis
-				5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5400Mat&Su	Other Safety Expenses	\$6,650 Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
•			· ·	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5600CapOut	Automotive & Other Vehicles	\$61,467 Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
Ū		·		5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5600CapOut	Equipment Purchase-Budget	\$0 Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
J			1 1	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5810OthDep	Sr-Building Inspection	\$2,000 Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
J. T.			3 1	5.9% Surface Water Supply / 0.02% Groundwater / 0.4% Pumping / 80.3% Transmission / 0.2%
WTR0503 WST Maint Engr	UW Water Transmission WTR	5810OthDep	Sr-DPW-Construction Mgmt	\$2,500 Distribution / 3.0% Storage / 9.6% Treatment / 0.4% Indirect - General
WTR0504 WST Maintenance	UW Water Transmission WTR	5010Salary	Overtime - Scheduled Misc	\$186,309 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5010Salary	Perm Salaries-Misc-Regular	\$7,918,569 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5010Salary	Premium Pay - Misc	\$392,000 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5010Salary	Temp Misc Regular Salaries	\$222,460 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Dental Coverage	\$74,228 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Dependent Coverage	\$933,429 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Flexible Benefit Package	\$4,856 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Health Service-City Match	\$204,543 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Long Term Disability Insurance	\$27.198 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Retire City Misc	\$1,120,426 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Retiree Health-Match-Prop B	\$54,023 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	RetireeHlthCare-CityMatchPropC	\$33,170 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Social Sec-Medicare(HI Only)	\$126,427 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Social Security (OASDI & HI)	\$530,876 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5130Fringe	Unemployment Insurance	\$8,712 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$336.381 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5210NPSvcs	Other Equip Maint	\$513,000 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$166,250 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$128,250 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5210NPSvcs	Software Licensing Fees	\$3,325 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Data Processing Supplies	\$1,900 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Fuels & Lubricants	\$380,000 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Minor Data Processing Equipment	\$6,650 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Other Bldg Maint Supplies	\$1,279,839 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Other Equipment Maint Supplies	\$203,300 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Other Materials & Supplies	\$152,000 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Other Naterials & Supplies Other Safety Expenses	\$95,000 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5400Mat&Su	Water &Sewage Treatment Supply	\$71,250 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5600CapOut	Automotive & Other Vehicles	\$198,552 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
WTR0504 WST Maintenance	UW Water Transmission WTR	5810OthDep	Sr-SAS-Building Repair	\$50,000 6.0% Pumping / 3.5% Transmission / 90.5% Treatment
W 1R0504 WS1 Waintenance	OW Water Transmission WTR	56 TOO THOU	SI-SAS-Building Repair	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5010Salary	Overtime - Scheduled Misc	\$216,678 1.2% Transmission / 97.9% Treatment
W 1K0303 W31 Systems Ops	OW Water Treatment	50 105alal y	Overtime - Scheduled Misc	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTD0505 WST Systems One	UW Water Treatment	F010Colony	Porm Solorios Mico Pogular	\$7,844,599 1.2% Transmission / 97.9% Treatment
WTR0505 WST Systems Ops	Ovv vvaler realifierit	5010Salary	Perm Salaries-Misc-Regular	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5010Salary	Premium Pay - Misc	\$245,000 1.2% Transmission / 97.9% Treatment
vv 110000 vvo i Systems Ops	Ovv vvaler realinerit	50 TOSalary	Fremuili Fay - IVISC	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5010Salary	Temp Misc Regular Salaries	\$49,000 1.2% Transmission / 97.9% Treatment
VIII COOO WOT Cystems Ops	OTT TRAIGHT HOUSINGTH	JO TOGAIAT Y	Tomp Miso Negulai Galarios	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Dental Coverage	\$67,389 1.2% Transmission / 97.9% Treatment
VIII COOO WOT Cystems Ops	OTT TRAIGHT HEALTHCHE	o roor ringe	Donal Soverage	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Dependent Coverage	\$859.382 1.2% Transmission / 97.9% Treatment
** 1110000 **O1 Oyaleilia Opa	OTT TRAIGHTHOUGHT	o loor finge	Popoliuoni Oovolaye	4000,002 1.270 Transmission / 07.070 Troumon

		Account Leve		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Health Service-City Match	\$166,407	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Long Term Disability Insurance	\$29,090	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Retire City Misc	\$1,110,327	1.2% Transmission / 97.9% Treatment
INTERESE INVOTED A	1.04/34/ / T /	5400F :	B	054.740	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Retiree Health-Match-Prop B	\$51,746	1.2% Transmission / 97.9% Treatment
WITDOEDE WOT COMPTON	L DA/ \A/=4== T===4====4	54205-i	Detine at little Come Cite Metals Decor	004 774	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$31,771	1.2% Transmission / 97.9% Treatment 0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Social Sec-Medicare(HI Only)	\$121 1/18	1.2% Transmission / 97.9% Treatment
WTR0505 WST Systems Ops	OW Water Treatment	STSUFFILIGE	Social Sec-iviedical e(Fil Offiy)	\$121,140	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Social Security (OASDI & HI)	\$510.216	1.2% Transmission / 97.9% Treatment
WTT0000 WOT Gystems Ops	OVV Water Treatment	5 Tool Tillige	Godiai occurity (GAGBI & Fil)	ψ510,210	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5130Fringe	Unemployment Insurance	\$8 354	1.2% Transmission / 97.9% Treatment
Transcoot transposition app	OTT Trate: Treatment	0.000.1	Shampisyment meananes	ψο,σσ .	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$142,500	1.2% Transmission / 97.9% Treatment
, ,			3 . 3		0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5210NPSvcs	Maint Svcs-Equipment-Budget	\$855,000	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5210NPSvcs	Other Current Expenses - Bdgt	\$103,550	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$427,500	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5210NPSvcs	Sludge Removal	\$71,250	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$142,500	1.2% Transmission / 97.9% Treatment
WTD0505 WOT 0					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Data Processing Supplies	\$950	1.2% Transmission / 97.9% Treatment
WITDOEDE WET Systems One	UW Water Treatment	5400Mat&Su	Fuels & Lubricants	¢0E 000	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping / 1.2% Transmission / 97.9% Treatment
WTR0505 WST Systems Ops	Ow water freatment	ว400IVIat&Su	rueis & Lubricarits	\$95,000	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Minor Data Processing Equipmnt	\$4.750	1.2% Transmission / 97.9% Treatment
W 110303 W31 Systems Ops	OW Water Treatment	J400IVIAIQGU	Ivilior Data Frocessing Equipmint	ψ4,730	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Other Bldg Maint Supplies	\$9 500	1.2% Transmission / 97.9% Treatment
Transcoo transpersions ope	OTT Trates Traditions	O I O O I I I I I I I I I I I I I I I I	Outer Dieg manit Supplies	40,000	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Other Equipment Maint Supplies	\$142,500	1.2% Transmission / 97.9% Treatment
, ,					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$237,500	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Other Materials & Supplies	\$741,000	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Other Safety Expenses	\$96,888	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5400Mat&Su	Water &Sewage Treatment Supply	\$7,600,000	1.2% Transmission / 97.9% Treatment
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5600CapOut	Automotive & Other Vehicles	\$73,636	1.2% Transmission / 97.9% Treatment
		E010011 E	SE 5110 11 11 11 11 11		0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5810OthDep	GF-PUC-Hetch Hetchy	\$10,609	1.2% Transmission / 97.9% Treatment
WITDOEDE WET System - O	LIM Motor Treatment	5810OthDep	CF DLIC Light Heat & Dows	¢6 710 04 4	0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping / 1.2% Transmission / 97.9% Treatment
WTR0505 WST Systems Ops	UW Water Treatment	28 IUOthDep	GF-PUC-Light Heat & Power	\$0,719,814	1.270 Hansinission/ 37.370 Healinetil

		Account Leve		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
					0.3% Surface Water Supply /04% Alternative Water Supply / 0.1% Groundwater / 0.5% Pumping /
WTR0505 WST Systems Ops	UW Water Treatment	5810OthDep	Sr-CWP-Clean Water Department	\$70,019	1.2% Transmission / 97.9% Treatment
WTR06 Natural Resources	UW Water Supply & Storage WTR	5010Salary	Holiday Pay - Misc	\$29,400	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5010Salary	Overtime - Scheduled Misc	\$105,458	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5010Salary	Perm Salaries-Misc-Regular	\$8,969,888	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5010Salary	Premium Pay - Misc	\$134,809	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5010Salary	Temp Misc Regular Salaries	\$142,100	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Dental Coverage	\$71,670	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Dependent Coverage	\$808.317	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Flexible Benefit Package	\$58,271	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Health Service-City Match	\$318,211	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Long Term Disability Insurance	40.	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Retire City Misc		98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Retiree Health-Match-Prop B		98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	RetireeHlthCare-CityMatchPropC		98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Social Sec-Medicare(HI Only)		98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Social Security (OASDI & HI)		98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5130Fringe	Unemployment Insurance	,	98.0% Surface Water Supply / 2.0% Transmission
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Employee Field Expenses-Budget		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	T 110 T T	100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Maint Svcs-Equipment-Budget		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Other Current Expenses - Bdgt	***************************************	100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Prof & Specialized Svcs-Bdgt	400.000.000	100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Rents & Leases-Equipment-Bdgt		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Taxes, Licenses & Permits-Bdgt		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5210NPSvcs	Utilities Expenses-Budget		100% Surface Water Supply
		5400Mat&Su	Food		100% Surface Water Supply
WTR06 Natural Resources WTR06 Natural Resources	UW Water Supply & Storage WTR				100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5400Mat&Su 5400Mat&Su	Other Bldg Maint Supplies	200000000000000000000000000000000000000	100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5400Mat&Su	Other Equipment Maint Supplies		100% Surface Water Supply
	UW Water Supply & Storage WTR		Other Hosp, Clinics&Lab Supply		11.5
WTR06 Natural Resources	UW Water Supply & Storage WTR	5400Mat&Su	Other Materials & Supplies		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5400Mat&Su	Other Safety Expenses		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5600CapOut	Automotive & Other Vehicles	. ,	100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5600CapOut	Other Equipment	, ,, ,	100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5810OthDep	GF-Environment		100% Surface Water Supply
WTR06 Natural Resources	UW Water Supply & Storage WTR	5810OthDep	Sr-SAS-Street Repair		100% Surface Water Supply
	g UW Water Supply & Storage WTR	5010Salary	Perm Salaries-Misc-Regular		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Dental Coverage		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Dependent Coverage	,	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Flexible Benefit Package	. ,	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Health Service-City Match		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Long Term Disability Insurance		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Retire City Misc	. ,	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Retiree Health-Match-Prop B		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	RetireeHlthCare-CityMatchPropC		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Social Sec-Medicare(HI Only)	,	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Social Security (OASDI & HI)		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
	g UW Water Supply & Storage WTR	5130Fringe	Unemployment Insurance		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
WTR0701 Wtr Resources Plannin	g UW Water Supply & Storage WTR	5210NPSvcs	Employee Field Expenses-Budget		6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
WTR0701 Wtr Resources Plannin	g UW Water Supply & Storage WTR	5210NPSvcs	Payments To Other Govt	,	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
WTR0701 Wtr Resources Plannin	g UW Water Supply & Storage WTR	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$665,000	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water

		Account Level		FY 2024 O&M	
Dept ID Title	Project Title	5 Title	Account Title	Expenses	Functional Allocation Basis
WTR0701 Wtr Resources Planning	UW Water Supply & Storage WTR	5400Mat&Su	Data Processing Supplies	\$950	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
WTR0701 Wtr Resources Planning	UW Water Supply & Storage WTR	5400Mat&Su	Minor Data Processing Equipmnt	\$4,655	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
WTR0701 Wtr Resources Planning	UW Water Supply & Storage WTR	5400Mat&Su	Other Materials & Supplies	\$69,904	6.7% Alternative Water Supply / 46.7% Groundwater / 46.7% Recycled Water
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5010Salary	Perm Salaries-Misc-Regular	\$2,032,596	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5010Salary	Premium Pay - Misc	\$11,956	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5010Salary	Temp Misc Regular Salaries	\$312,071	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Dental Coverage	\$16,608	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Dependent Coverage	\$205,673	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Flexible Benefit Package	\$19,424	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Health Service-City Match	\$53,813	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Long Term Disability Insurance	\$5,052	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Retire City Misc	\$285,106	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Retiree Health-Match-Prop B	\$14,605	100% Water Conservation
	UW Water Supply & Storage WTR	5130Fringe	RetireeHlthCare-CityMatchPropC	\$8,967	100% Water Conservation
	UW Water Supply & Storage WTR	5130Fringe	Social Sec-Medicare(HI Only)	\$34,172	100% Water Conservation
	UW Water Supply & Storage WTR	5130Fringe	Social Security (OASDI & HI)	\$140,026	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5130Fringe	Unemployment Insurance	\$2,360	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5210NPSvcs	Entertainment & Promotion Bdgt	\$4,750	100% Water Conservation
	UW Water Supply & Storage WTR	5210NPSvcs	Other Current Expenses - Bdgt	\$152,000	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$570,000	100% Water Conservation
	UW Water Supply & Storage WTR	5210NPSvcs	Rents-Leases-Bldgs&Struct-Bdgt	\$4,750	100% Water Conservation
	UW Water Supply & Storage WTR	5210NPSvcs	Software Licensing Fees	\$6.650	100% Water Conservation
	UW Water Supply & Storage WTR	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$19,000	100% Water Conservation
	UW Water Supply & Storage WTR	5380CityGP	CBO Services - Budget	\$1,290,762	100% Water Conservation
	UW Water Supply & Storage WTR	5400Mat&Su	Food	\$4,750	100% Water Conservation
	UW Water Supply & Storage WTR	5400Mat&Su	Minor Data Processing Equipmnt	\$19,000	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5400Mat&Su	Other Bldg Maint Supplies	\$171,000	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5400Mat&Su	Other Materials & Supplies	\$28,500	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5810OthDep	GF-Environment	\$110,000	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5810OthDep	Is-Purch-Centrl Shop-AutoMaint	\$6,705	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5810OthDep	ls-Purch-Centrl Shop-FuelStock	\$298	100% Water Conservation
WTR0703 Water Conservation	UW Water Supply & Storage WTR	5810OthDep	ls-Purch-Reproduction	\$31,827	100% Water Conservation
	UW Water Supply & Storage WTR	5810OthDep	Sr-DPW-Architecture	\$50,000	100% Water Conservation
N/A	Oceanside Recycled Water O&M	N/A	N/A	\$2,151,750	100% Recycled Water
WTR01 Administration	525 Golden Gate - Lease Paymen	5610FacMai	Facilities Maintenance-Budget		100% Indirect - General
WTR01 Administration	525 Golden Gate - O & M	5610FacMai	Facilities Maintenance-Budget	\$3,096,038	100% Indirect - General
WTR01 Administration	525 Golden Gate - O & M	5810OthDep	GF-Sheriff	\$1,344,962	100% Indirect - General
WTR01 Administration	Drought Response Program	5610FacMai	Facilities Maintenance-Budget	\$500,000	100% Water Conservation
WTR01 Administration	Neighborhood Steward Prog	5060ProgPr	Programmatic Projects-Budget	\$770,000	100% Indirect - General
WTR01 Administration	Water Resources Planning And D	5610FacMai	Facilities Maintenance-Budget	\$500,000	100% Surface Water Supply
WTR01 Administration	Youth Employment & Environment	5610FacMai	Facilities Maintenance-Budget	\$1,290,000	100% Indirect - General
WTR0305 CDD Const & Maint	Awss Maintenance - Cdd	5610FacMai	Facilities Maintenance-Budget		100% Hydrants/AWSS
WTR0305 CDD Const & Maint	Treasure Island - Maintenance	5610FacMai	Facilities Maintenance-Budget		100% Indirect - General
WTR0701 Wtr Resources Planning	Watershed Structure Projection	5610FacMai	Facilities Maintenance-Budget	\$5,486,000	100% Surface Water Supply
	Landscape Conservation Program	N/A	N/A		100% Water Conservation
	Retrofit Grant Program	N/A	N/A	\$500,000	100% Indirect - General
	Natural Resources Planning	N/A	N/A	, ,	100% Indirect - General
-	Long Term Monitoring & Permit Program		N/A	, ,	100% Indirect - General
Total FY 2024 O&M	5			\$328,788,358	
				#0±0,7 00,000	1

	Preliminary O&M	Reallocation of	Reallocation of	Final O&M Functional	Final O&M Functional
Function	Functional Allocation	Bureau	Indirect - General	Allocation (%)	Allocation (\$)
Surface Water Supply	\$67,803,182	\$0	\$40,312,047	\$108,115,229	32.88%
Alternative Water Supply	\$127,535	\$0	\$75,826	\$203,361	0.06%
Groundwater	\$1,342,008	\$0	\$797,884	\$2,139,893	0.65%
Recycled Water	\$3,596,061	\$0	\$2,138,021	\$5,734,082	1.74%
Water Conservation	\$7,112,420	\$0	\$4,228,654	\$11,341,074	3.45%
Pumping	\$4,869,092	\$0	\$2,894,895	\$7,763,987	2.36%
Transmission	\$18,075,017	\$0	\$10,746,412	\$28,821,429	8.77%
Distribution	\$11,629,529	\$0	\$6,914,279	\$18,543,809	5.64%
Storage	\$666,106	\$0	\$396,030	\$1,062,136	0.32%
Treatment	\$44,874,985	\$0	\$26,680,201	\$71,555,186	21.76%
Water Quality	\$21,083,167	\$0	\$12,534,893	\$33,618,059	10.22%
Meters	\$1,022,566	\$4,057,430	\$3,020,286	\$8,100,282	2.46%
Hydrants / AWSS	\$7,134,047	\$0	\$4,241,513	\$11,375,560	3.46%
Fire Sprinklers	\$41,817	\$0	\$24,862	\$66,678	0.02%
Customer	\$4,530,661	\$8,230,091	\$7,586,842	\$20,347,593	6.19%
Bureau	\$64,047,698	(\$64,047,698)	\$0	\$0	0.00%
Indirect - General	\$70,832,466	\$51,760,177	(\$122,592,643)	\$0	0.00%
Total	\$328,788,358	\$0	\$0	\$328,788,358	100.00%

Notes:

- 1. Bureau costs reallocated as follows: 6.3% to Meters / 12.8% to Customer / 80.8% to Indirect General
- 2. Indirect General costs reallocated proportionally to all other functions



APPENDIX C:

Water Cost of Service: Debt Functional Allocations

	FY 2024-FY 2028	
Water Enterprise Revenue Bonds	Debt Service	Functional Allocation Basis
		5.7% Surface Water Supply / 0.0003% Alternative Water Supply / 1.5% Groundwater / 1.9% Recycled Water / 3.4% Pumping / 56.5% Transmission / 9.0% Storage / 18.8% Treatment / 3.1% Indirect -
2010 Series B (BABs)	\$161,536,488	General 3.5% Surface Water Supply / 0.0001% Alternative Water Supply / 1.3% Groundwater / 0.2% Recycled
2010 Series E (BABs)	\$158,778,771	Water / 2.5% Pumping / 72.7% Transmission / 3.4% Storage / 12.1% Treatment / 4.2% Indirect - General
2010 Series G (BABs)	\$122 135 825	59.5% Surface Water Supply / 0.01% Alternative Water Supply / 0.01% Groundwater / 0.003% Pumping / 21.0% Transmission / 19.5% Treatment
2010 delies d (DADs)	ψ122,133,023	6.0% Surface Water Supply / 1.1% Alternative Water Supply / 1.1% Groundwater / 1.2% Recycled Water / 7.0% Pumping / 40.3% Transmission / 2.5% Distribution / 26.4% Storage / 4.8% Treatment /
2015 Series A - Ref. 06A	\$159,558,095	0.4% Hydrants/AWSS / 9.2% Indirect - General
2045 Carias A. Daf 200	#20 0F0 C0F	4.2% Surface Water Supply / 0.4% Alternative Water Supply / 1.4% Groundwater / 1.0% Recycled Water / 13.2% Pumping / 43.6% Transmission / 0.02% Distribution / 14.2% Storage / 24.2% Treatment
2015 Series A - Ref. 09A	\$39,852,625	/ 0.002% Hydrants/AWSS / -2.3% Indirect - General 4.2% Surface Water Supply / 0.4% Alternative Water Supply / 1.4% Groundwater / 1.0% Recycled Water / 13.2% Pumping / 43.6% Transmission / 0.02% Distribution / 14.2% Storage / 24.2% Treatment
2016 Series A - Ref. 09A	\$86,675,875	/ 0.002% Hydrants/AWSS / -2.3% Indirect - General 2.4% Surface Water Supply / 0.3% Alternative Water Supply / 1.3% Groundwater / 0.7% Recycled
2016 Series A - Ref. 09B	\$124 581 625	Water / 8.8% Pumping / 54.7% Transmission / 0.0003% Distribution / 10.0% Storage / 19.5% Treatment / 2.7% Indirect - General
2016 Series A - Ref. 10F	. , ,	51.5% Surface Water Supply / 20.6% Transmission / 27.9% Treatment / 0.01 Indirect - General
2016 Series A - Ref. 101 2016 Series B - Ref. 06B		100% Indirect - General
2016 Series B - Ref. 06C		100% Indirect - General
2016 Series B - Ref. 10A		100% Meters
2010 Selles B - Rei. 10A	Φ22,200,075	13.4% Surface Water Supply / 6.4% Groundwater / 0.001% Recycled Water / 0.2% Pumping / 59.9%
2016 Series C	\$72,851,951	Transmission / 0.001% Storage / 13.7% Treatment / 6.5% Indirect - General 37.3% Surface Water Supply / 5.7% Groundwater / 0.01% Recycled Water / 0.3% Pumping / 6.7%
2017 Series A	\$18,093,000	Transmission / 0.01% Storage / 9.0% Treatment / 40.9% Indirect - General 1.2% Surface Water Supply / 0.01% Recycled Water / 40.1% Transmission / 25.5% Distribution /
2017 Series B	\$22 065 625	31.6% Treatment / 0.02% Meters / 1.6% Indirect - General
2017 Series C		100% Indirect - General
	***************************************	3.6% Surface Water Supply / 0.02% Alternative Water Supply / 2.0% Groundwater / 0.5% Recycled Water / 1.5% Pumping / 69.2% Transmission / 4.3% Storage / 9.2% Treatment / 9.6% Indirect -
2017 Series D - Ref. 11A	\$124,586,500	34.8% Surface Water Supply / 0.1% Alternative Water Supply / 13.3% Groundwater / 0.01% Recycled
2017 Series D - Ref. 12A	\$30,573,750	Water / 0.2% Pumping / 31.9% Transmission / 2.8% Storage / 12.2% Treatment / 4.7% Indirect -
2017 Series E - Ref 11 C, 11D, and 12C		100% Distribution
2017 Series E - Ref 11 C, 11D, and 12C		100% Indirect - General
2017 Series F - Rei. 2011b	\$5,765,625	3.6% Surface Water Supply / 0.02% Alternative Water Supply / 2.0% Groundwater / 0.5% Recycled Water / 1.5% Pumping / 69.2% Transmission / 4.3% Storage / 9.2% Treatment / 9.6% Indirect -
2017 Series G - Ref. 2011A	\$19,309,478	
		3.6% Surface Water Supply / 0.02% Alternative Water Supply / 2.0% Groundwater / 0.5% Recycled Water / 1.5% Pumping / 69.2% Transmission / 4.3% Storage / 9.2% Treatment / 9.6% Indirect -
2019 Series A - Ref. 11A	\$63,956,053	General
		34.8% Surface Water Supply / 0.1% Alternative Water Supply / 13.3% Groundwater / 0.01% Recycled Water / 0.2% Pumping / 31.9% Transmission / 2.8% Storage / 12.2% Treatment / 4.7% Indirect -
2019 Series A - Ref. 12A	\$50,165,105	
2019 Series B - Ref. 2011B		100% Indirect - General
2019 Series C - Ref. 2011C		100% Distribution 81.6% Surface Water Supply / 14.3% Groundwater / 0.8% Recycled Water / 0.1% Pumping / 0.3%
2020 Series A		Transmission / 0.2% Storage / 0.6% Treatment / 2.3% Indirect - General
2020 Series B		22.7% Surface Water Supply / 44.1% Transmission / 18.1% Treatment / 15.0% Indirect - General 0.4% Pumping / 81.9% Transmission / 7.6% Distribution / 1.6% Storage / 0.3% Treatment / 5.7%
2020 Series C		Meters / 2.4% Indirect - General
2020 Series D	\$7,380,000	37.2% Surface Water Supply / 44.2% Transmission / 18.6% Indirect - General 34.8% Surface Water Supply / 0.1% Alternative Water Supply / 13.3% Groundwater / 0.01% Recycled
2020 Series E Ref 2012A	\$33,797,541	
2020 Series E Ref 2017A	\$21,320,313	37.3% Surface Water Supply / 5.7% Groundwater / 0.01% Recycled Water / 0.3% Pumping / 6.7% Transmission / 0.01% Storage / 9.0% Treatment / 40.9% Indirect - General
2020 Series F Ref 2017B		1.2% Surface Water Supply / 0.01% Recycled Water / 40.1% Transmission / 25.5% Distribution / 31.6% Treatment / 0.02% Meters / 1.6% Indirect - General
2020 Series G Ref 2011D		100% Indirect - General
2020 Series G Ref 2012B		100% Indirect - General
2020 Series G Ref 2012C		100% Indirect - General
2020 Series H Ref 2017C		100% Indirect - General
Total	\$1,670,765,002	

	Preliminary Debt	Reallocation of	Reallocation of	Final Debt Functional	Final Debt Functional
Function	Functional Allocation	Bureau	Indirect - General	Allocation (%)	Allocation (\$)
Surface Water Supply	\$260,162,603	\$0	\$33,149,427	\$293,312,030	17.56%
Alternative Water Supply	\$2,483,874	\$0	\$316,491	\$2,800,364	0.17%
Groundwater	\$41,308,416	\$0	\$5,263,440	\$46,571,856	2.79%
Recycled Water	\$8,864,922	\$0	\$1,129,552	\$9,994,474	0.60%
Water Conservation	\$0	\$0	\$0	\$0	0.00%
Pumping	\$52,076,950	\$0	\$6,635,546	\$58,712,496	3.51%
Transmission	\$708,445,241	\$0	\$90,268,752	\$798,713,993	47.81%
Distribution	\$53,979,458	\$0	\$6,877,960	\$60,857,418	3.64%
Storage	\$105,079,148	\$0	\$13,388,986	\$118,468,134	7.09%
Treatment	\$225,705,218	\$0	\$28,758,932	\$254,464,150	15.23%
Water Quality	\$0	\$0	\$0	\$0	0.00%
Meters	\$23,263,688	\$0	\$2,964,215	\$26,227,903	1.57%
Hydrants / AWSS	\$569,605	\$0	\$72,578	\$642,183	0.04%
Fire Sprinklers	\$0	\$0	\$0	\$0	0.00%
Customer	\$0	\$0	\$0	\$0	0.00%
Bureau	\$0	\$0	\$0	\$0	0.00%
Indirect - General	\$188,825,879	\$0	(\$188,825,879)	\$0	0.00%
Total	\$1,670,765,002	\$0	\$0	\$1,670,765,002	100.00%

Notes:

1. Indirect – General costs reallocated proportionally to all other functions



APPENDIX D:

Water Cost of Service: CIP Functional Allocations

	FY 2024-FY 2028	
Regional & Local Water Enterprise CIP Projects	CIP	Functional Allocation Basis
REGIONAL WATER		
19056-UW Regional Water Treatment Program		
21392 - Regional Water Treatment RNR		100% Treatment
15479-UW Regional Water Treatment Pr		100% Treatment
15481-UW Sunol Valley Water Treatment		100% Treatment
15479 - Reg Groundwater Treatment Pr	\$3,067,454	100% Treatment
19057-UW Water Transmission Program		
15483-UW Water Transmission Program	\$894,521	100% Transmission
15484-UW Corrosion Control	\$21,313,470	100% Transmission
15485-UW Water Transmission Program	\$6,800,000	100% Transmission
15487-UW Pump Station Upgrades	\$8,434,144	100% Pumping
15488-UW Pipeline Improvements	\$154,696,928	100% Transmission
15489-UW Valve Replacement	\$6,206,051	100% Transmission
21394 - WTR Transmission R&R (Valve Replacement R&R)	\$6,642,521	100% Transmission
21394 - WTR Transmission R&R (Pump Station Upgrades R&R)	\$813,750	100% Pumping
21394 - WTR Transmission R&R (Metering Upgrades R&R)		100% Meters
21394 - WTR Transmission R&R (Vault Upgrades R&R)		100% Transmission
	, ,,,,,,,,,	
19058-UW Water Supply and Storage		
15493-UW Dam Structural Upgrades	\$65,367,512	100% Storage
21388 Purified Water & Other Supplies (Daly City Recycled Water Expansion Project)		100% Recycled Water
21388 Purified Water & Other Supplies (All Other Projects)		100% Alternative Water Supply
19059-UW Watersheds and Land Management		
15499-UW Watershed & Land Management	\$1 215 000	100% Surface Water Supply
15507-UW Row Gaps Project		100% Surface Water Supply
15508-UW Skyline Ridge Trail		100% Indirect - General
15511-UW Native Plant Nursery		100% Surface Water Supply
15512-Sa-1 Service Road-Ingoing Road		100% Indirect - General
19060-UW Communication and Monitoring Program		
15514-UW Microwave Backbone Upgrade	\$4,300,000	100% Indirect - General
15515-UW Security System		100% Indirect - General
13313-OVV Geculity dysterii	Ψ11,940,707	100 % indirect - General
19061-UW Buildings and Grounds - Regional		
15517-UW Sunol Long Term Improvement	\$9 580 347	100% Indirect - General
15518-UW Sunol Yard Upgrades		100% Indirect - General
15519-UW Millbrae Yard Upgrade	, , ,	100% Indirect - General
Too To Str. Himbras Tara opgrado	ΨΕΕ 1, 110,010	10070 Indiagot Contral
19069-UW Long Term Monitoring & Perm	ф10 001 1: -	4000/ hading 1 0
15549-UW Long Term Monitoring & Perm (Long Term Monitoring & Permit Program [Capital])		100% Indirect - General
15549-UW Long Term Monitoring & Perm (Alameda Watershed Monitoring)		100% Surface Water Supply
15551-UW Peninsula Watershed Monitor	\$3,894,265	100% Surface Water Supply
LOCAL WATER		
80119-Water Supply Projects		
20711-Water Diversification Projects (Water Bottling Plant)	\$2 943 000	100% Alternative Water Supply
20711-Water Diversification Projects (All Other Projects)		100% Recycled Water
19063-UW Local Water Conveyance-dist		
15527-UW New Services	\$30,100,000	100% Distribution
15528-UW Renew Services (Local Water - Lead Component Services Program)		100% Water Quality
15528-UW Renew Services (Water Quality Distribution System)		100% Water Quality
15528-UW Renew Services (All Other Projects) 15531-UW Pipeline Replacement (Potable Emergency Firefighting Water System)		100% Distribution
		100% Hydrants / AWSS
15531-UW Pipeline Replacement (All Other Projects)		100% Distribution
20504-New Services Connection Program		100% Distribution
20505-Town of Sunol Pipeline	\$3,013,341	100% Distribution

	FY 2024-FY 2028	
Regional & Local Water Enterprise CIP Projects	CIP	Functional Allocation Basis
19065-UW Systems Monitoring and Control		
15534-UW Systems Monitoring and Control	\$15,219,102	100% Customer
19066-UW Local Reservoir Tank Improv		
15538-UW Local Reservoir - Budget	\$36,306,817	100% Storage
19067-UW Pump Station Improvements		
15543-Pump Station Improvements		100% Pumping
15546-UW Bay Bridge West Pump Station	\$389,489	100% Pumping
15547-UW Harding Park Pump Station	\$5,338,428	100% Pumping
19071-UW Groundwater Project		
15555-UW Lake Merced Water Level Res	\$9,996,228	100% Alternative Water Supply
19072-UW Recycled Water Project		
15558-UW Recycled Water Project	\$2,368,382	100% Recycled Water
19112-UW Automated Meter Reading System		
15612-UW Automated Meter Reading Sys	\$18,782,778	100% Meters
19114-UW Buildings & Grounds Improvements - Local		
15617-UW Buildings & Grounds Improvements - Local	\$2,838,628	100% Indirect - General
21396 - New CDD Headquarter	\$343,562,838	100% Indirect - General
Total	\$1,763,068,939	

	Preliminary CIP	Reallocation of	Reallocation of	Final CIP Functional	Final CIP Functional
Function	Functional Allocation	Bureau	Indirect - General	Allocation (%)	Allocation (\$)
Surface Water Supply	\$11,734,412	\$0	\$6,334,696	\$18,069,108	1.02%
Alternative Water Supply	\$69,503,913	\$0	\$37,520,940	\$107,024,853	6.07%
Groundwater	\$0	\$0	\$0	\$0	0.00%
Recycled Water	\$31,925,824	\$0	\$17,234,813	\$49,160,637	2.79%
Water Conservation	\$0	\$0	\$0	\$0	0.00%
Pumping	\$16,303,811	\$0	\$8,801,437	\$25,105,248	1.42%
Transmission	\$198,953,491	\$0	\$107,402,904	\$306,356,395	17.38%
Distribution	\$291,445,658	\$0	\$157,333,806	\$448,779,464	25.45%
Storage	\$101,674,329	\$0	\$54,887,794	\$156,562,123	8.88%
Treatment	\$296,730,277	\$0	\$160,186,651	\$456,916,928	25.92%
Water Quality	\$43,183,600	\$0	\$23,312,202	\$66,495,802	3.77%
Meters	\$19,352,778	\$0	\$10,447,389	\$29,800,167	1.69%
Hydrants / AWSS	\$48,942,280	\$0	\$26,420,964	\$75,363,244	4.27%
Fire Sprinklers	\$0	\$0	\$0	\$0	0.00%
Customer	\$15,219,102	\$0	\$8,215,869	\$23,434,971	1.33%
Bureau	\$0	\$0	\$0	\$0	0.00%
Indirect - General	\$618,099,464	\$0	(\$618,099,464)	\$0	0.00%
Total	\$1,763,068,939	\$0	\$0	\$1,763,068,939	100.00%

Notes:

1. Indirect – General costs reallocated proportionally to all other functions

APPENDIX E:

Water Cost of Service: Wholesale Revenue Functional Allocations

	FY 2024-FY 2028	
	Wholesale	
	Revenue	
Wholesale Revenue Requirement	Requirement	Functional Allocation Basis
		25.1% Surface Water Supply / 26.8% Transmission / 47.7% Treatment /
Water Operations & Maintenance		0.3% Customer
Hetch Hetchy Operations & Maintenance	\$112,028,080	100% Surface Water Supply
Administrative and General Expenses	\$207,871,819	11.2% Surface Water Supply / 58.1% Bureau / 30.7% Indirect - General
Property Taxes	\$8,534,861	100% Surface Water Supply
		Groundwater / 0.6% Recycled Water / 3.2% Pumping / 49.8%
		Transmission / 0.5% Distribution / 6.2% Storage / 15.9% Treatment /
Debt Service - Existing	\$876,828,982	0.0002% Meters / 0.03% Hydrants/AWSS
		11.1% Surface Water Supply / 6.2% Alternative Water Supply / 0.7%
		Recycled Water / 1.0% Pumping / 40.3% Transmission / 7.2% Storage /
Debt Service - Proposed	\$37,494,863	1
		Groundwater / 0.6% Recycled Water / 3.2% Pumping / 49.8%
		Transmission / 0.5% Distribution / 6.2% Storage / 15.9% Treatment /
Federal Bond Interest Subsidy	(\$64,881,279)	0.0002% Meters / 0.03% Hydrants/AWSS
		11.1% Surface Water Supply / 6.2% Alternative Water Supply / 0.7%
		Recycled Water / 1.0% Pumping / 40.3% Transmission / 7.2% Storage /
Water Revenue Funded Capital		32.5% Treatment / 0.9% Water Quality / 0.1% Meters
Interest on Balancing Account	\$23,468	100% Indirect - General
Interest on Coverage Reserve	(\$1,381,811)	100% Indirect - General
Wholesale Share of Coverage	\$10,487,708	100% Indirect - General
Balancing Account Due (To)/From Wholesale Customers	\$1,851,504	100% Indirect - General
Total	\$1,692,036,503	

				Final Wholesale	Final Wholesale
	Preliminary			Revenue	Revenue
	Wholesale Revenue			Requirement	Requirement
	Requirement	Reallocation of	Reallocation of	Functional Allocation	Functional Allocation
Function	Functional Allocation	Bureau	Indirect - General	(%)	(\$)
Surface Water Supply	\$430,083,124	\$0	\$48,805,006	\$478,888,131	28.30%
Alternative Water Supply	\$8,509,062	\$0	\$965,592	\$9,474,654	0.56%
Groundwater	\$25,441,650	\$0	\$2,887,070	\$28,328,720	1.67%
Recycled Water	\$5,555,139	\$0	\$630,387	\$6,185,526	0.37%
Water Conservation	\$0	\$0	\$0	\$0	0.00%
Pumping	\$26,817,188	\$0	\$3,043,163	\$29,860,351	1.76%
Transmission	\$566,025,421	\$0	\$64,231,477	\$630,256,898	37.25%
Distribution	\$3,837,267	\$0	\$435,446	\$4,272,712	0.25%
Storage	\$58,881,005	\$0	\$6,681,703	\$65,562,709	3.87%
Treatment	\$368,582,003	\$0	\$41,825,977	\$410,407,981	24.26%
Water Quality	\$1,104,081	\$0	\$125,289	\$1,229,370	0.07%
Meters	\$77,753	\$7,652,518	\$877,216	\$8,607,487	0.51%
Hydrants / AWSS	\$205,337	\$0	\$23,301	\$228,638	0.01%
Fire Sprinklers	\$0	\$0	\$0	\$0	0.00%
Customer	\$1,301,784	\$15,522,369	\$1,909,173	\$18,733,326	1.11%
Bureau	\$120,797,209	(\$120,797,209)	\$0	\$0	0.00%
Indirect - General	\$74,818,479	\$97,622,322	(\$172,440,800)	\$0	0.00%
Total	\$1,692,036,503	\$0	\$0	\$1,692,036,503	100.00%

Notes:

- $1. \quad \text{Bureau costs reallocated as follows: } 6.3\% \text{ to Meters} \; / \; 12.8\% \text{ to Customer} \; / \; 80.8\% \text{ to Indirect} \text{General}$
- 2. Indirect General costs reallocated proportionally to all other functions

APPENDIX F:

Water Cost of Service: Federal Bond Interest Subsidy Functional Allocations

	FY 2024-FY 2028	
Debt Issuances Eligible for Interest Subsidy	Debt Service	Functional Allocation Basis
2010 Series B (BABs)	\$161,536,488	5.7% Surface Water Supply / 0.0003% Alternative Water Supply / 1.5% Groundwater / 1.9% Recycled Water / 3.4% Pumping / 56.5% Transmission / 9.0% Storage / 18.8% Treatment / 3.1% Indirect - General
2010 Series E (BABs)	\$158,778,771	3.5% Surface Water Supply / 0.0001% Alternative Water Supply / 1.3% Groundwater / 0.2% Recycled Water / 2.5% Pumping / 72.7% Transmission / 3.4% Storage / 12.1% Treatment / 4.2% Indirect - General
2010 Series G (BABs)		59.5% Surface Water Supply / 0.01% Alternative Water Supply / 0.01% Groundwater / 0.003% Pumping / 21.0% Transmission / 19.5% Treatment
Mountain Tunnel SRF (Retail Portion Only)	\$6,545,211	100% Surface Water Supply
Total	\$448,996,295	

	Preliminary Federal			Final Federal Bond	Final Federal Bond
	Bond Interest	Reallocation of	Reallocation of	Interest Functional	Interest Functional
Function	Functional Allocation	Bureau	Indirect - General	Allocation (%)	Allocation (\$)
Surface Water Supply	\$93,948,069	\$0	\$0	\$93,948,069	20.92%
Alternative Water Supply	\$13,025	\$0	\$0	\$13,025	0.00%
Groundwater	\$4,566,960	\$0	\$0	\$4,566,960	1.02%
Recycled Water	\$3,485,014	\$0	\$0	\$3,485,014	0.78%
Water Conservation	\$0	\$0	\$0	\$0	0.00%
Pumping	\$9,523,628	\$0	\$0	\$9,523,628	2.12%
Transmission	\$232,444,125	\$0	\$0	\$232,444,125	51.77%
Distribution	\$0	\$0	\$0	\$0	0.00%
Storage	\$19,973,209	\$0	\$0	\$19,973,209	4.45%
Treatment	\$73,361,347	\$0	\$0	\$73,361,347	16.34%
Water Quality	\$0	\$0	\$0	\$0	0.00%
Meters	\$0	\$0	\$0	\$0	0.00%
Hydrants / AWSS	\$0	\$0	\$0	\$0	0.00%
Fire Sprinklers	\$0	\$0	\$0	\$0	0.00%
Customer	\$0	\$0	\$0	\$0	0.00%
Bureau	\$0	\$0	\$0	\$0	0.00%
Indirect - General	\$11,680,918	\$0	\$0	\$11,680,918	2.60%
Total	\$448,996,295	\$0	\$0	\$448,996,295	100.00%

APPENDIX G:

Sewer Cost of Service: SIC Code to SIC Group

Line	SIC Group	SIC Code	Description	SIC Group S	IC Code	Description
1	•	7012	Hotel without Eating	4	5541	Gasoline Stations
2		7014	Residential Hotel No Eating	4	5810	Cafe/Sandwich Shops
3		8050	Nursing Facility	4	5813	Drinking Places
4		8600	Memberships/Religious Org	4	6800	Office Buildings
5	5 4	9900	Vacant/Under Construction	4	7000	Services
ϵ		0	SF IC Not Assigned Yet	4	7212	Laundry Agents
7		100	Agricultural - Crops	4	7218	Industrial Laundries
8	3 4	200	Agricultural - Livestock	4	7230	Beauty Shops
9		742	Veterinary Services	4	7374	Prepress/Desktop Publishing
10) 4	910	Commercial Fishing	4	7384	Photo Laboratory
11	4	1500	Building Construction	4	7538	Auto Repair Shops
12	2 4	2000	Manufacturing	4	7542	Car Washes
13	3 4	2011	Meat Packing	4	7830	Movie Theaters
14	4	2015	Poultry Processing	4	7991	Physical Fitness
15	5 4	2020	Dairy Product Process	4	8010	Medical Offices
16	5 4	2030	Fruit and Vegetable	4	8021	Offices of Dentists
17	7 4	2052	Cookies and Crackers	4	8060	Hospitals & Clinics
18	3 4	2053	Bread Bakery	4	8210	Schools
19	9 4	2077	Oil/Fats Rendering	4	8220	College/Vocational
20) 4	2080	Beverage & Bottling	4	8400	Museum/Art Gallery
21	4	2091	Can/Cure Fish & Seafood	4	8810	Single Family Residence
22	2 4	2092	Prepared Fish & Seafood	4	8811	Multiple Family Residence
23	3 4	2200	Textile, Apparel, Fabric	4	8812	Mix Use 50%+ Residential
24		2400	Lumber and Wood Product	4	8813	General Use in Common Area
25	5 4	2500	Furniture & Fixtures	4	9000	Government/Civic Service
26	5 4	2600	Pulp & Paper Product	4	9003	Collection System Sampling
27		2700	Printing & Publishing	4	9004	Wet Weather Sampling
28		2840	Soap and Sanitation	4	9993	Mix Use 50%+ Non Residential
29		2850	Paint Manufacturing	4	9994	Live/Work/Lofts
30		2870	Agricultural Chemical	4	9997	No Sewer/ Septic
31		2893	Printing Inks	4	9998	Out of SF Border
32		2900	Petroleum Refining	4	2800	Chemicals & Products
33		3000	Rubber and Plastics	4	7213	Linen Supply
34		3100	Leather and Products	5	7041	Lodging Houses with Eating
35		3200	Gravel/Stone/Glass	5	7011	Hotel with Eating
36		3470	Metal Coatings	5	7013	Residential Hotel with Eating
37		3500	Machinery/Computers	6	5146	Fish and Seafood
38		3600	Electronic Equipment	7	7215	Coin-Op Laundries
39		4000	Transport &Utility	8	7211	Commercial/Power Laundry
40		5000	Wholesale Trade	9	2013	Sausage Manufacturing
41		5143	Dairy Product Distribution	10	5812	Restaurant/Kitchen FSE with HGI
42		5144 5147	Poultry Products Most Products	10 11	5814	
43 44		5147 5200	Meat Products Retail Trade	11 12	2051 5815	Wholesale Bakery FSE with GRD
45	5 4	5460	Retail Bakeries	12	5816	FSE with GGI

APPENDIX H:

Ten-Year Wastewater Enterprise Financial Plan

Ten-Year Status Quo Wastewater Enterprise Financial Plan

Line	Category			FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
1	RETAIL RATE REVENUE SUBJECT T	O ADJUSTMEN	NTS	112023	11 2024	112023	11 2020	112027	11 2020	112023	112030	11 2031	112032	11 2000
2	Drought Revenue			\$16,282,325	\$17,302,729	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Retail Rate Revenue from Existin	ng Rates - Volu	metric		\$338,151,551		\$348,644,265	\$345,029,167	\$342,629,698	\$338,320,896	\$335,366,464	\$332,403,623	\$332,123,051	\$330,410,147
4	Retail Rate Revenue from Existin	-		\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399
5	Municipal - Volumetric	0		\$7,526,181	\$7,903,026	\$8,070,545	\$8,262,935	\$8,095,884	\$7,961,591	\$7,784,369	\$7,638,508	\$7,494,337	\$7,425,435	\$7,327,902
6	Municipal - Fixed			\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957
7	Total Rate Revenue Subject to Ad	djustments			\$374,249,662		\$367,799,557	\$364,017,407	\$361,483,646	\$356,997,621	\$353,897,328	\$350,790,316	\$350,440,842	\$348,630,404
8														
9	PROPOSED REVENUE ADJUSTMEN	NTS												
10	Fiscal	Revenue	Month					h di						
11	Year	Adjustment	Effective											
12	FY 2024	0.0%	July		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	FY 2025	0.0%	July			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	FY 2026	0.0%	July				\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	FY 2027	0.0%	July					\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	FY 2028	0.0%	July						\$0	\$0	\$0	\$0	\$0	\$0
17	FY 2029	0.0%	July							\$0	\$0	\$0	\$0	\$0
18	FY 2030	0.0%	July								\$0	\$0	\$0	\$0
19	FY 2031	0.0%	July									\$0	\$0	\$0
20 21	FY 2032	0.0%	July	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0
22	Total Revenue Adjustments			\$ 0	\$0	ŞU	\$ 0	\$0	ŞU	\$ 0	\$ 0	\$ 0	\$ 0	ŞU
23	Adjustment for Drought Revenue	e			(\$17,302,729)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Stormwater Rate Revenue	_		\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568
25	Total Rate Revenue without Drou	ught Rates				\$361,988,912		\$364,135,975	\$361,602,214	\$357,116,190		\$350,908,885	\$350,559,410	\$348,748,973
26				, ,	,			,	,,,,	,	, , ,	, ,	, ,	
27	OTHER REVENUE													
28	Drought Rates (with Revenue Inc	crease)		\$0	\$17,302,729	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Other Retail Charges			\$78,709	\$86,638	\$95,511	\$105,853	\$115,223	\$125,852	\$136,691	\$147,679	\$159,534	\$167,347	\$173,128
30	Operating Revenues			\$17,587,693	\$18,815,775	\$20,419,710	\$21,488,412	\$22,831,774	\$24,331,938	\$25,372,115	\$26,792,840	\$27,800,540	\$28,354,859	\$29,186,894
31	Programmatic Revenues			\$4,212,828	\$4,366,760	\$4,529,247	\$4,715,961	\$4,889,862	\$5,087,911	\$5,281,078	\$5,476,333	\$5,687,389	\$5,817,186	\$5,913,912
32	Non-Debt Capital Revenues			\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
33	TOTAL REVENUES			\$396,920,863	\$403,966,403	\$392,728,380	\$399,923,351	\$397,667,835	\$396,842,915	\$393,601,074	\$392,127,747	\$390,251,348	\$390,593,802	\$389,717,907
34														
35	O&M EXPENSES													
36	Personnel				\$84,155,575	\$87,016,323	\$89,977,680	\$93,043,316	\$96,217,039	\$99,502,800	\$102,904,701		\$110,074,112	
37	Other Non-Personnel Services			\$26,603,401	\$27,295,904	\$28,114,906	\$28,958,483	\$29,827,373	\$30,722,336	\$31,644,154	\$32,593,634	\$33,571,604	\$34,578,920	\$35,616,464
38	Materials, Supplies & Equipment	t		\$12,913,549	\$13,727,571	\$14,139,398	\$14,563,580	\$15,000,488	\$15,450,502	\$15,914,018	\$16,391,438	\$16,883,181	\$17,389,677	\$17,911,367
39 40	Services of SFPUC Bureaus Services of Other Departments			\$35,694,439 \$35,700,349	\$36,237,828 \$41,213,880	\$37,324,963 \$42,268,433	\$38,444,712 \$43,354,622	\$39,598,053 \$44,473,397	\$40,785,995 \$45,625,735	\$42,009,574 \$46,812,643	\$43,269,862 \$48,035,158	\$44,567,957 \$49,294,349	\$45,904,996 \$50,591,316	\$47,282,146 \$51,927,191
40	Other Operating Expenses			\$140,857	\$140,857	\$140,857	\$43,354,622	\$140,857	\$140,857	\$140,857	\$48,033,138	\$49,294,349	\$140,857	\$1,927,191
42	Programmatic Expenses			\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749	\$7,985,075	\$8,032,791	\$8,081,938	\$8,132,560	\$8,184,700
43	TOTAL O&M EXPENSES				\$210,538,166		\$223,290,039	\$229,977,256	\$236,881,212	\$244,009,120	\$251,368,439	\$258,966,885	\$266,812,437	\$274,913,353
44				, , , , , , , , , , , , , , , , , , , ,	,,		,,,	,,	7-00,000,	7=:,,,	,,,,	,,	7 ,	7 ,,==,,==
45	NET REVENUE			\$195,328,824	\$193,428,237	\$175,915,790	\$176,633,312	\$167,690,579	\$159,961,703	\$149,591,953	\$140,759,308	\$131,284,463	\$123,781,365	\$114,804,554
46														
47	DEBT SERVICE													
48	Existing Debt Service			\$104,017,873	\$106,234,104	\$124,721,371	\$130,810,760	\$139,479,116	\$138,695,706	\$138,538,646	\$138,386,976	\$138,223,966	\$142,231,402	\$146,232,085
49	Proposed Debt Service			\$0	\$0	\$0	\$22,403,639	\$71,487,376	\$97,647,836	\$126,528,250	\$188,634,938	\$220,870,250	\$220,870,250	\$243,051,484
50	TOTAL DEBT SERVICE			\$104,017,873	\$106,234,104	\$124,721,371	\$153,214,399	\$210,966,492	\$236,343,542	\$265,066,896	\$327,021,914	\$359,094,216	\$363,101,652	\$389,283,569
51														
52	FUNDING FOR PAY-AS-YOU-GO	CIP												
53	Rate Funded		7	\$83,005,000	. , ,	\$122,657,438	\$125,110,586	\$127,612,798	\$130,165,054	\$132,768,355	\$135,423,722		\$140,894,841	. , ,
54	Capacity Fee Funded			\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
55	TOTAL FUNDING FOR PAY-AS-YO	OU-GO CIP		\$88,700,000	\$98,367,000	\$128,352,438	\$130,805,586	\$133,307,798	\$135,860,054	\$138,463,355	\$141,118,722	\$143,827,197	\$146,589,841	\$149,407,738
56 57	NET CASH FLOW			\$2,610,951	(\$11,172,866)	(\$77,158,019)	(\$107,386,672)	(\$176,583,711)	(\$212,241,893)	(\$253,938,297)	(\$327,381,328)	(\$371,636,950)	(\$385,910,128)	(\$423,886,753)

Line	Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
58	FUNDING BALANCE (EXCLUDING PROPOSED DEBT PROC	EEDS)										
59	Beginning Balance	\$157,769,951	\$160,380,902	\$149,208,036	\$72,050,018	(\$35,336,655)	(\$211,920,366)	(\$424,162,259)	(\$678,100,556)	(\$1,005,481,884)	(\$1,377,118,834)	(\$1,763,028,963)
60	Net Cash Flow	\$2,610,951	(\$11,172,866)	(\$77,158,019)	(\$107,386,672)	(\$176,583,711)	(\$212,241,893)	(\$253,938,297)	(\$327,381,328)	(\$371,636,950)	(\$385,910,128)	(\$423,886,753)
61	ENDING BALANCE	\$160,380,902	\$149,208,036	\$72,050,018	(\$35,336,655)	(\$211,920,366)	(\$424,162,259)	(\$678,100,556)	(\$1,005,481,884)	(\$1,377,118,834)	(\$1,763,028,963)	(\$2,186,915,716)
62	Ending Balance (% of Annual O&M)	79.6%	70.9%	33.2%	-15.8%	-92.1%	-179.1%	-277.9%	-400.0%	-531.8%	-660.8%	-795.5%
63	Minimum Reserve Target (% of Annual O&M)	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	125.0%	225.0%	325.0%	425.0%	525.0%
64												
65	CURRENT DEBT SERVICE COVERAGE TEST					.400						
66	Net Revenue Subject to Debt Coverage Test	\$200,355,741	\$198,444,788	\$180,932,341	\$181,649,863	\$172,707,130	\$164,978,254	\$154,608,504	\$145,775,859	\$136,301,014	\$128,797,916	\$119,821,105
67	Projected Debt Coverage	2.00	1.94	1.58	1.27	0.88	0.70	0.59	0.45	0.38	0.36	0.31
68	Required Debt Coverage	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	2.10	3.10

Ten-Year Proposed Sewer Financial Plan

					1 1 0 10 1	<u> </u>	50 11 02		W1 1 1W11					
Line	Category			FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
1	RETAIL RATE REVENUE SUBJECT	TO ADJUSTMEN	NTS											
2	Drought Revenue			\$16,282,325	\$17,302,729	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Retail Rate Revenue from Existi	ing Rates - Volu	metric	\$334,527,202	\$338,151,551	\$342,907,443	\$348,644,265	\$345,029,167	\$342,629,698	\$338,320,896	\$335,366,464	\$332,403,623	\$332,123,051	\$330,410,147
4	Retail Rate Revenue from Existi	ing Rates - Fixe	d	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399	\$10,820,399
5	Municipal - Volumetric	· ·		\$7,526,181	\$7,903,026	\$8,070,545	\$8,262,935	\$8,095,884	\$7,961,591	\$7,784,369	\$7,638,508	\$7,494,337	\$7,425,435	\$7,327,902
6	Municipal - Fixed			\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957	\$71,957
7	Total Rate Revenue Subject to A	Adjustments									\$353,897,328	\$350,790,316	\$350,440,842	\$348,630,404
8	Total face fie veriae subject to a	Aujustinents		4303,220,00 4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7501,070,511	4301,133,331	3504,017,407	4301,403,040	4330 ,337,021	7555,657,520	4550,750,510	7330,440,042	75-10,030,-10-1
9	PROPOSED REVENUE ADJUSTME	ENTS							h.					
10	Fiscal		Month						lb.					
		Revenue												
11	Year	Adjustment	Effective						7000		4			
12	FY 2024	9.0%	July		\$32,125,224	1 - , ,	\$33,101,960	\$32,761,567	\$32,533,528	\$32,129,786	\$31,850,759	\$31,571,128	\$31,539,676	\$31,376,736
13	FY 2025	9.0%	July			\$35,499,481	\$36,081,137	\$35,710,108	\$35,461,546	\$35,021,467	\$34,717,328	\$34,412,530	\$34,378,247	\$34,200,643
14	FY 2026	9.0%	July				\$39,328,439	\$38,924,017	\$38,653,085	9091000.	\$37,841,887	\$37,509,658	\$37,472,289	\$37,278,701
15	FY 2027	10.0%	July					\$47,141,310	\$46,813,180	\$46,232,227	\$45,830,730	\$45,428,363	\$45,383,105	\$45,148,648
16	FY 2028	10.0%	July						\$51,494,498	\$50,855,450	\$50,413,803	\$49,971,200	\$49,921,416	\$49,663,513
17	FY 2029	10.0%	July							\$55,940,995	\$55,455,184	\$54,968,320	\$54,913,557	\$54,629,865
18	FY 2030	9.0%	July								\$54,900,632	\$54,418,636	\$54,364,422	\$54,083,566
19	FY 2031	9.0%	July									\$59,316,314	\$59,257,220	\$58,951,087
20	FY 2032	5.0%	July										\$35,883,539	\$35,698,158
21	Total Revenue Adjustments			\$0	\$32,125,224	\$68,067,812	\$108,511,536	\$154,537,001	\$204,955,837	\$202,412,329	\$200,654,508	\$198,892,879	\$198,694,732	\$197,668,241
22	,													
23	Adjustment for Drought Revenu	ile.			(\$17,302,729)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Stormwater Rate Revenue			\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568	\$118,568
25	Total Rate Revenue without Dro	nught Pates			-			\$518,672,976		. ,	. ,	\$549,801,764	\$549,254,143	\$546,417,214
26	Total Nate Nevenue Without Dit	ought nates		,505,5 - 0,055	4303,130,723	3430,030,724	3470,423,001	3310,072,370	7500,550,051	7555,520,510	3334,070,404	3343,001,704	73-7,23-,1-3	7340,417,214
27	OTHER REVENUE													
28				\$0	\$18,859,974	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Drought Rates (with Revenue Ir	icrease)		control of the contro	. , ,	VICTORIA					-			
29	Other Retail Charges			\$78,709	\$86,638	\$95,511	\$105,853	\$115,223	\$125,852	\$136,691	\$147,679	\$159,534	\$167,347	\$173,128
30	Operating Revenues			\$17,587,693		100000000000000000000000000000000000000			\$24,331,938		\$26,792,840	\$27,800,540	\$28,354,859	\$29,186,894
31	Programmatic Revenues			\$4,212,828	\$4,366,760	\$4,529,247	\$4,715,961	\$4,889,862	\$5,087,911	\$5,281,078	\$5,476,333	\$5,687,389	\$5,817,186	\$5,913,912
32	Non-Debt Capital Revenues			\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
33	TOTAL REVENUES			\$396,920,863	\$437,648,873	\$460,796,192	\$508,434,886	\$552,204,836	\$601,798,753	\$596,013,402	\$592,782,255	\$589,144,227	\$589,288,535	\$587,386,148
34														
35	O&M EXPENSES													
36	Personnel			\$82,802,526	\$84,155,575	\$87,016,323	\$89,977,680	\$93,043,316	\$96,217,039	\$99,502,800	\$102,904,701	\$106,426,999	\$110,074,112	\$113,850,629
37	Other Non-Personnel Services			\$26,603,401	\$27,295,904	\$28,114,906	\$28,958,483	\$29,827,373	\$30,722,336	\$31,644,154	\$32,593,634	\$33,571,604	\$34,578,920	\$35,616,464
38	Materials, Supplies & Equipmen	nt		\$12,913,549	\$13,727,571	\$14,139,398	\$14,563,580	\$15,000,488	\$15,450,502	\$15,914,018	\$16,391,438	\$16,883,181	\$17,389,677	\$17,911,367
39	Services of SFPUC Bureaus			\$35,694,439	\$36,237,828	\$37,324,963	\$38,444,712	\$39,598,053	\$40,785,995	\$42,009,574	\$43,269,862	\$44,567,957	\$45,904,996	\$47,282,146
40	Services of Other Departments			\$35,700,349	\$41,213,880	\$42,268,433	\$43,354,622	\$44,473,397	\$45,625,735	\$46,812,643	\$48,035,158	\$49,294,349	\$50,591,316	\$51,927,191
41	Other Operating Expenses			\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857	\$140,857
42	Programmatic Expenses			\$7,736,917	\$7,766,551	\$7,807,711	\$7,850,106	\$7,893,772	\$7,938,749	\$7,985,075	\$8,032,791	\$8,081,938	\$8,132,560	\$8,184,700
43	TOTAL O&M EXPENSES							\$229,977,256	- ' '		\$251,368,439	\$258,966,885	\$266,812,437	\$274,913,353
44	and the same of th			,,,,,,,,,,	, 110,000,100	,,,	,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 200,001,212	, I, UUS, ILU		, 200,000,000	,=00,011,-01	,, 5 . 5 , 5 5 5
45	NET REVENUE			\$10E 220 024	\$227 110 707	¢242 002 602	¢20E 1// 0/0	\$222 227 E90	\$264 Q17 E41	\$2E2 004 202	\$341,413,816	¢220 177 2 <i>4</i> 2	\$222 476 007	\$212 <i>4</i> 72 70E
46	NEI REVENOE			3133,320,024	3227,110,707	3243,363,002	3203,144,040	3322,227,360	3304,317,341	3332,004,282	3341,413,610	3330,177,342	3322,470,037	3312,472,733
46	DEDT CEDVICE													
	DEBT SERVICE			4		4	****		4	****	4	4		4
48	Existing Debt Service										\$138,386,976		\$142,231,402	
49	Proposed Debt Service			\$0	\$0	\$0	\$22,403,639		\$97,647,836		\$188,634,938	\$220,870,250	\$220,870,250	\$243,051,484
50	TOTAL DEBT SERVICE			\$104,017,873	\$106,234,104	\$124,721,371	\$153,214,399	\$210,966,492	\$236,343,542	\$265,066,896	\$327,021,914	\$359,094,216	\$363,101,652	\$389,283,569
51														
52	FUNDING FOR PAY-AS-YOU-GO	CIP												
53	Rate Funded			\$83,005,000	\$92,038,000	\$122,657,438	\$125,110,586	\$127,612,798	\$130,165,054	\$132,768,355	\$135,423,722	\$138,132,197	\$140,894,841	\$143,712,738
54	Capacity Fee Funded			\$5,695,000	\$6,329,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000	\$5,695,000
55	TOTAL FUNDING FOR PAY-AS-Y	OU-GO CIP		\$88,700,000	\$98,367,000	\$128,352,438	\$130,805,586	\$133,307,798	\$135,860,054	\$138,463,355		\$143,827,197	\$146,589,841	\$149,407,738
56														
57	NET CASH FLOW			\$2,610,951	\$22,509,603	(\$9,090,207)	\$1,124,863	(\$22,046,710)	(\$7,286,055)	(\$51,525,969)	(\$126,726,820)	(\$172,744,071)	(\$187,215,396)	(\$226,218,512)

Net Cash Flow \$2,610,951 \$22,509,603 \$9,090,207 \$1,124,863 \$22,046,710 \$7,286,055 \$15,525,969 \$126,726,820 \$127,744,071 \$187,215,396 \$22,618,	Line	Category	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033
Net Cash Flow \$2,610,951 \$22,509,603 \$9,090,207 \$1,124,863 \$22,046,710 \$7,286,055 \$151,525,969 \$126,726,820 \$177,744,071 \$187,215,396 \$22,618, 61 ENDING BALANCE \$160,380,902 \$182,890,506 \$173,800,299 \$174,925,162 \$152,878,452 \$145,592,397 \$94,066,428 \$23,280,603 \$39,107,653 \$57,619,779 \$79,419, 62 Ending Balance (% of Annual O&M) 79.6% 86.9% 80.2% 78.3% 66.5% 61.5% 38.6% 9.3% -15.1% -21.6% -22.6% 125.0%	58	FUNDING BALANCE (EXCLUDING PROPOSED DEBT PROCEE	DS)										
61 ENDING BALANCE \$160,380,902 \$182,890,506 \$173,800,299 \$174,925,162 \$152,878,452 \$145,592,397 \$94,066,428 \$23,280,603 (\$39,107,653) (\$57,619,779) (\$79,419,62 Ending Balance (% of Annual O&M)	59	Beginning Balance	\$157,769,951	\$160,380,902	\$182,890,506	\$173,800,299	\$174,925,162	\$152,878,452	\$145,592,397	\$150,007,423	\$133,636,418	\$129,595,617	\$146,798,958
62 Ending Balance (% of Annual O&M) 79.6% 86.9% 80.2% 78.3% 66.5% 61.5% 38.6% 9.3% -21.6% -21.6% -22.6% 52.0%	60	Net Cash Flow	\$2,610,951	\$22,509,603	(\$9,090,207)	\$1,124,863	(\$22,046,710)	(\$7,286,055)	(\$51,525,969)	(\$126,726,820)	(\$172,744,071)	(\$187,215,396)	(\$226,218,512)
63 Minimum Reserve Target (% of Annual O&M) 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 325.0% 325.0% 425.0% 525.0% 25.0% 25.0% 25.0% 25.0% 25.0% 25.0% 325.0% 325.0% 425.0% 525.0%	61	ENDING BALANCE	\$160,380,902	\$182,890,506	\$173,800,299	\$174,925,162	\$152,878,452	\$145,592,397	\$94,066,428	\$23,280,603	(\$39,107,653)	(\$57,619,779)	(\$79,419,553)
64 65 CURRENT DEBT SERVICE COVERAGE TEST 66 Net Revenue Subject to Debt Coverage Test \$191,908,023 \$223,289,201 \$239,760,360 \$280,211,768 \$316,659,477 \$358,627,062 \$400,920,651 \$444,000,753 \$490,309,014 \$517,804,374 \$536,358,	62	Ending Balance (% of Annual O&M)	79.6%	86.9%	80.2%	78.3%	66.5%	61.5%	38.6%	9.3%	-15.1%	-21.6%	-28.9%
65 CURRENT DEBT SERVICE COVERAGE TEST 66 Net Revenue Subject to Debt Coverage Test \$191,908,023 \$223,289,201 \$239,760,360 \$280,211,768 \$316,659,477 \$358,627,062 \$400,920,651 \$444,000,753 \$490,309,014 \$517,804,374 \$536,358,	63	Minimum Reserve Target (% of Annual O&M)	25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	125.0%	225.0%	325.0%	425.0%	525.0%
66 Net Revenue Subject to Debt Coverage Test \$191,908,023 \$223,289,201 \$239,760,360 \$280,211,768 \$316,659,477 \$358,627,062 \$400,920,651 \$444,000,753 \$490,309,014 \$517,804,374 \$536,358,	64												
	65	CURRENT DEBT SERVICE COVERAGE TEST											
67 Projected Debt Coverage 1.92 2.18 2.09 1.96 1.62 1.57 1.56 1.40 1.41 1.47	66	Net Revenue Subject to Debt Coverage Test	\$191,908,023	\$223,289,201	\$239,760,360	\$280,211,768	\$316,659,477	\$358,627,062	\$400,920,651	\$444,000,753	\$490,309,014	\$517,804,374	\$536,358,062
	67	Projected Debt Coverage	1.92	2.18	2.09	1.96	1.62	1.57	1.56	1.40	1.41	1.47	1.42
68 Required Debt Coverage 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.1	68	Required Debt Coverage	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	2.10	3.10

APPENDIX I:

Sewer Cost of Service: O&M Functional Allocations

			Account Lvl 5			
Fund Title	Dept ID Title	Project Title	Title	Account Title	O&M Expenses	Functional Allocation Basis
/WE Op Annual Ctrl Total						
/WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5010Salary	Perm Salaries-Misc-Budget		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5010Salary	Perm Salaries-Misc-Regular		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5010Salary	Premium Pay - Misc		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5010Salary	Ret Payout - SP & Vac - Misc		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5010Salary	Temp Misc Regular Salaries		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Dental Coverage		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Dependent Coverage		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Flexible Benefit Package		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Fringe Adjustments-Budget	,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Health Service-Admin Cost		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Health Service-City Match		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Health Service-Retiree Subsidy		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Long Term Disability Insurance		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Other Fringe Benefits	. , ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Retire City Misc		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Retiree Health-Match-Prop B		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	RetireeHlthCare-CityMatchPropC		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Retirement - Budget		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Social Sec-Medicare(HI Only)	. ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Social Security (OASDI & HI)	\$99,715	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5130Fringe	Unemployment Insurance	\$2,019	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5200OHAllo	Department Overhead	\$36,237,828	Bureau - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Air Travel - Employees	\$39,278	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Employee Field Expenses-Budget	\$2,333	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Judgements & Claims-Budget	\$160,000	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$132,000	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Maint Svcs-Equipment-Budget	\$57,373	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Membership Fees	\$603,195	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Non-Air Travel - Employees	\$66,964	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Other Current Expenses - Bdgt	\$6,988	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$1,247,135	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$117,729	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$155,561	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5210NPSvcs	Training - Budget	\$114,845	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5400Mat&Su	Food	\$1,710	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5400Mat&Su	Other Bldg Maint Supplies	\$40,500	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5400Mat&Su	Other Materials & Supplies	\$86,315	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5400Mat&Su	Other Safety Expenses	\$36,000	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	DT Enterprise Tech Contracts	\$6,683	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	DT Technology Projects	\$62,175	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	DT Telecommunications Services		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-Bus & Ecn Dev		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-City Attorney-Legal Service	. ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-Con-Financial Systems	. , ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-Environment		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-HR-Employee Relations		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-HR-Tuition Reimbursemnt W-O		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-HR-Workers' Comp Claims		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	GF-Risk Management Svcs (AAO)	. , ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	Is-Purch-Reproduction	. ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	Sr-DPW-Street Repair		Stormwater - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5810OthDep	Sr-SAS-Street Repair		Stormwater - 100.%.
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5910 OTO	OTO To 2S/GSF-General Svcs Fd	, ,	Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5950 ITO	ITO To 5C-Cleanwater ProgramFd		Indirect - 100.%,
WE Op Annual Account Ctrl	WWE0101 Administration	UC Administration WWE	5980UARDes	Designated For General Reserve		Indirect - 100.%,
/WE Op Annual Account Ctrl	WWE0101 Administration	UC Capital Investment WWE	5700DebSvc	Bond Interest-Expense		Indirect - 100.%,
/WE Op Annual Account Ctrl	WWE0101 Administration	UC Capital Investment WWE		Bond Redemption		Indirect - 100.%,
/WE Op Annual Account Ctrl To		oc capital investment wwe	2100060340	bona nedemption	\$51,001,874	mun ect * 100.76,

			Account Lvl 5			
Fund Title	Dept ID Title	Project Title	Title	Account Title	O&M Expenses	Functional Allocation Basis
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5010Salary	Overtime - Scheduled Misc	\$24,808	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5010Salary	Perm Salaries-Misc-Regular	\$553,556	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5010Salary	Temp Misc Regular Salaries	\$41,017	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Dental Coverage	\$4,559	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Dependent Coverage	\$49,087	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Flexible Benefit Package	\$4,707	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Health Service-City Match	\$23,707	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Long Term Disability Insurance	\$1,532	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Retire City Misc	\$78,887	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Retiree Health-Match-Prop B	\$3,838	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	RetireeHlthCare-CityMatchPropC	\$2,357	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Social Sec-Medicare(HI Only)	\$8,981	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Social Security (OASDI & HI)	\$37,496	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5130Fringe	Unemployment Insurance	\$619	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Crt Fees & Other Compensation	\$8,400	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Employee Field Expenses-Budget	\$520	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Entertainment & Promotion Bdgt	\$7,200	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$660,780	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$500,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$20,359	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5210NPSvcs	Utilities Expenses-Budget	\$30,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5400Mat&Su	Other Materials & Supplies	\$32,015	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5810OthDep	GF-GSA-Facilities Mgmt Svcs	\$367,946	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5810OthDep	Sr-DPW-Building Repair	\$0	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0102 Admin SE Community	UC Administration WWE	5810OthDep	Sr-SAS-Building Repair	\$75,869	Indirect - 100.%,
WWE Op Annual Account Ctrl Tot	al				\$2,538,241	

Account Lvl 5						
Fund Title	Dept ID Title	Project Title	Title	Account Title	O&M Expenses	Functional Allocation Basis
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5010Salary	Perm Salaries-Misc-Regular	\$2,411,475	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5010Salary	Premium Pay - Misc	\$23,336	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5010Salary	Temp Misc Regular Salaries	\$305,738	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Dental Coverage	\$22,468	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Dependent Coverage	\$257,414	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Flexible Benefit Package	\$9,415	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Health Service-City Match	\$96,250	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Long Term Disability Insurance	\$7,292	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Retire City Misc	\$341,111	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Retiree Health-Match-Prop B	\$16,978	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	RetireeHlthCare-CityMatchPropC	\$10,423	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Social Sec-Medicare(HI Only)	\$39,738	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Social Security (OASDI & HI)	\$158,623	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5130Fringe	Unemployment Insurance	\$2,742	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5210NPSvcs	Employee Field Expenses-Budget	\$800	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5210NPSvcs	Fees Licenses Permits	\$676,976	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5210NPSvcs	Other Current Expenses - Bdgt	\$347,385	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$3,135,786	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$7,200	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5400Mat&Su	Food	\$450	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5400Mat&Su	Other Materials & Supplies	\$214,628	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5810OthDep	GF-Chs-Medical Service	\$41,178	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5810OthDep	Sr-DPW-Engineering	\$140,405	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5810OthDep	Sr-DPW-Urban Forestry	\$0	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5810OthDep	SR-Neighborhood Beautification	\$100,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE0103 Planning & Regulation	UC Administration WWE	5810OthDep	Sr-SAS-Urban Forestry	\$341,250	Indirect - 100.%,
WWE Op Annual Account Ctrl To	tal				\$8,709,062	

			Account Lvl 5		0&M	
Fund Title	Dept ID Title	Project Title	Title	Account Title	Expenses	Functional Allocation Basis
WWE Op Annual Account Ctrl	1WWE03 Maintenance				\$39,438,755	
						Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5010Salary	Holiday Pay - Misc	\$160.387	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
			,		7-00,001	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5010Salary	Overtime - Scheduled Misc	\$1,309,960	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
						Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5010Salary	Perm Salaries-Misc-Regular	\$12,866,150	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
WWE Op Annual Account Ctrl	WWF04 Bayside Operations	LIC Wastewater Treatment	5010Sələrv	Premium Pay - Misc	\$297 579	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection / Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
WWL OF Annual Account Cur	WWL04 bayside Operations	oc wastewater meatment	30103alai y	Tremium ray - wiisc	\$307,370	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5010Salary	Temp Misc Regular Salaries	\$201,215	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
						Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Dental Coverage	\$109,541	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
MANAGE On Annual Assessed Chal	MANAGOA Descride Occupations	LIC Masternature Transfer and	F120F-i	Department Courses	ć1 202 1C7	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	wwe04 Bayside Operations	oc wastewater freatment	5130Fringe	Dependent Coverage	\$1,393,167	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%, Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Health Service-City Match	\$280,218	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
·			_			Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Long Term Disability Insurance	\$49,709	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
					4	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Retire City Misc	\$1,821,996	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%, Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Retiree Health-Match-Prop B	\$92.434	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				, , ,	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$56,756	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
						Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Social Sec-Medicare(HI Only)	\$216,415	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%, Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWF04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Social Security (OASDI & HI)	\$909 203	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
TTTE OF THINGS AND CAN	WW.Zo : Baysiac operations	or musicimater meaning.	3130. Tinge	Secial Secarity (Griss): army	ψ303,203	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5130Fringe	Unemployment Insurance	\$14,919	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
WWE Op Annual Account Ctrl	, ,			Maint Svcs-Bldgs & Impvts-Bdgt	. , ,	Solids Handling - 100.%,
WWE Op Annual Account Ctrl				Prof & Specialized Svcs-Bdgt		Solids Handling - 100.%,
WWE Op Annual Account Ctrl WWE Op Annual Account Ctrl				Taxes, Licenses & Permits-Bdgt Utilities Expenses-Budget		Solids Handling - 100.%, Solids Handling - 100.%,
WWE Op Annual Account Ctrl				Other Equipment Maint Supplies		Disinfection / Discharge - 60.%, Solids Handling - 20.%, Pumping / Lift Stations - 20.%,
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5400Mat&Su	Other Materials & Supplies	\$220,904	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
						Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl				Other Safety Expenses		Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
WWE Op Annual Account Ctrl	wwe04 Bayside Operations	UC Wastewater Treatment	5400Mat&Su	Water &Sewage Treatment Supply	\$6,176,391	Disinfection / Discharge - 60.%, Solids Handling - 20.%, Pumping / Lift Stations - 20.%, Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5600CapOut	Automotive & Other Vehicles	\$79.436	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
WWE Op Annual Account Ctrl			A000000000000000	Equipment Purchase-Budget	\$0	
						Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5810OthDep	Ef-SFGH-Medical Service	\$85,904	Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%,
WWE Op Annual Account Ctrl	WWE04 Payrido Oporations	LIC Wastowator Treatment	E910OthDoo	GF-Chs-Medical Service	\$50,000	Headworks - 10.91%, Primary Treatment - 10.91%, Secondary Treatment - 10.91%, Disinfection /
WWE Op Annual Account Ctrl				GF-PUC-Light Heat & Power		Discharge - 10.91%, Solids Handling - 36.85%, Pumping / Lift Stations - 19.52%, Secondary Treatment - 50.%, Solids Handling - 30.%, Pumping / Lift Stations - 20.%,
WWE Op Annual Account Ctrl			A0000000000000000000000000000000000000	GF-Rec & Park-Gardener	\$0	
WWE Op Annual Account Ctrl	WWE04 Bayside Operations	UC Wastewater Treatment	5810OthDep	Sr-DPW-Construction Mgmt	\$0	
WWE Op Annual Account Ctrl	Total				\$53,747,065	

			Account Lvl 5		O&M	
Fund Title	Dept ID Title	Project Title	Title	Account Title	Expenses	Functional Allocation Basis
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5010Salary	Overtime - Scheduled Misc	\$5,225	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5010Salary	Perm Salaries-Misc-Regular	\$5,243,834	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5010Salary	Temp Misc Regular Salaries	\$95,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Dental Coverage	\$29,196	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Dependent Coverage	\$332,394	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Health Service-City Match	\$127,342	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Long Term Disability Insurance	\$18,268	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Retire City Misc	\$729,990	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Retiree Health-Match-Prop B	\$33,109	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$20,329	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Social Sec-Medicare(HI Only)	\$77,492	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Social Security (OASDI & HI)	\$267,828	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5130Fringe	Unemployment Insurance	\$5,346	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5210NPSvcs	Other Current Expenses - Bdgt	\$25,064	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5210NPSvcs	Other Equip Maint	\$16,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5210NPSvcs	Rents-Leases-Bldgs&Struct-Bdgt	\$220,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5210NPSvcs	Software Licensing Fees	\$448,700	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5210NPSvcs	Taxes, Licenses & Permits-Bdgt	\$4,391	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$2,700	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE06 Environmental Engr	UC Wastewater Treatment	5400Mat&Su	Other Materials & Supplies	\$4,046	Indirect - 100.%,
WWE Op Annual Account Ctrl	Total				\$7,706,252	

			Account Lvl 5		O&M	
Fund Title	Dept ID Title	Project Title	Title	Account Title	Expenses	Functional Allocation Basis
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5010Salary	Holiday Pay - Misc	\$7,370	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5010Salary	Overtime - Scheduled Misc	\$372,082	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5010Salary	Perm Salaries-Misc-Regular	\$7,673,104	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5010Salary	Premium Pay - Misc	\$102,998	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5010Salary	Temp Misc Regular Salaries	\$28,754	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Dental Coverage	\$72,529	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Dependent Coverage	\$923,355	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Flexible Benefit Package	\$14,122	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Health Service-City Match	\$210,134	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Long Term Disability Insurance	\$26,595	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Retire City Misc	\$1,095,635	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Retiree Health-Match-Prop B	\$50,707	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	RetireeHlthCare-CityMatchPropC	\$31,145	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Social Sec-Medicare(HI Only)	\$118,668	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Social Security (OASDI & HI)	\$502,761	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5130Fringe	Unemployment Insurance	\$8,180	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Employee Field Expenses-Budget	\$203	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Fees Licenses Permits	\$135,828	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Maint Svcs-Bldgs & Impvts-Bdgt	\$814,884	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Maint Svcs-Equipment-Budget	\$37,000	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Other Bldg Maint Svcs	\$500,000	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Other Current Expenses - Bdgt	\$741,378	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$0	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$956,116	Stormwater - 25.%, General Collections - 75.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5210NPSvcs	Training - Budget	\$0	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5380CityGP	CBO Services - Budget	\$125,000	Stormwater - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5400Mat&Su	Inventories-Purchase	\$90,000	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5400Mat&Su	Other Bldg Maint Supplies	\$60,233	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5400Mat&Su	Other Equipment Maint Supplies	\$61,559	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$20,666	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5400Mat&Su	Other Materials & Supplies	\$330,399	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5400Mat&Su	Other Safety Expenses	\$31,047	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5600CapOut	Automotive & Other Vehicles	\$549,250	Stormwater - 25.%, General Collections - 75.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5600CapOut	Equipment Purchase-Budget	\$0	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5600CapOut	Other Equipment	\$37,329	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	Ef-Municipal Railway	\$70,000	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	GF-Chs-Medical Service	\$100,000	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	Is-Purch-Centrl Shop-AutoMaint	\$419,685	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	Is-Purch-Centrl Shop-FuelStock	\$242,684	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	Sr-DPW-Building Repair	\$0	General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	Sr-DPW-Engineering	\$100,000	General Collections - 100.%,
WWE Op Annual Account Ctrl	•		5810OthDep	Sr-DPW-Sewer Repair		General Collections - 100.%,
WWE Op Annual Account Ctrl	WWE1001 Sewer Operations	UC Wastewater Collection	5810OthDep	Sr-DPW-Street Cleaning	\$0	Stormwater - 100.%,
WWE Op Annual Account Ctrl	· · · · · · · · · · · · · · · · · · ·		5810OthDep	Sr-SAS-Building Repair		General Collections - 100.%,
WWE Op Annual Account Ctrl	•		5810OthDep	Sr-SAS-Sewer Repair		General Collections - 100.%,
WWE Op Annual Account Ctrl	•		5810OthDep	Sr-SAS-Street Cleaning		Stormwater - 100.%,
WWE Op Annual Account Ctrl			r	ŭ	\$24,698,415	·
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Fund Title	Dept ID Title	Project Title	Account Lvl 5 Title	Account Title	O&M Expenses Functional Allocation Basis
	•	<u> </u>			Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5010Salary	Overtime - Scheduled Misc	\$87,278 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5010Salary	Perm Salaries-Misc-Regular	\$4,157,623 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5010Salary	Premium Pay - Misc	\$12,459 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Dental Coverage	\$30,163 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Dependent Coverage	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$340,221 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Flexible Benefit Package	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$28,244 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Health Service-City Match	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$131,989 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Long Term Disability Insurance	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$10,688 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Retire City Misc	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$585,242 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Retiree Health-Match-Prop B	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$26,377 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$16,196 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Social Sec-Medicare(HI Only)	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$61,733 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Social Security (OASDI & HI)	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$243,127 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5130Fringe	Unemployment Insurance	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$4,257 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5210NPSvcs	Employee Field Expenses-Budget	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$1,867 Handling - 0.29%, Primary Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5210NPSvcs	Maint Svcs-Equipment-Budget	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$46,000 Handling - 0.29%, Primary Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5210NPSvcs	Other Current Expenses - Bdgt	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$238,245 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5210NPSvcs	Rents-Leases-Bldgs&Struct-Bdgt	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$437,749 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5400Mat&Su	Food	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$5,360 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5400Mat&Su	Other Bldg Maint Supplies	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$18,000 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5400Mat&Su	Other Equipment Maint Supplies	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$137,669 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$123,975 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5400Mat&Su	Other Materials & Supplies	\$107,772 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5400Mat&Su	Other Safety Expenses	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$17,100 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Sormwater - 16.38%, Secondary Treatment - 0.20%, Solids Stationary - 0.20%, Solids Statio
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5600CapOut	Automotive & Other Vehicles	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$223,180 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5600CapOut	Equipment Purchase-Budget	\$0
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5600CapOut	Other Equipment	\$0 Headworks - 04.22%, Primary Treatment - 04.22%, Secondary Treatment - 20.3%, Disinfection / Discharge - 11.75%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Ef-PUC-Water	\$1,685,825 Handling - 43.%, Pumping / Lift Stations - 16.5%, Headworks - 04.22%, Primary Treatment - 04.22%, Secondary Treatment - 20.3%, Disinfection / Discharge - 11.75%, Solids Headworks - 04.22%, Primary Treatment - 04.22%, Secondary Treatment - 20.3%, Disinfection / Discharge - 11.75%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	GF-Environment	\$89,782 Handling - 43.%, Pumping / Lift Stations - 16.5%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Is-Purch-Centrl Shop-AutoMaint	\$88,866 Handling - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids Headworks - 0.29%, Primary Treatment - 0.29%, Stormwater - 16.38%, General Collections - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Is-Purch-Centrl Shop-FuelStock	\$27,526 Handling - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Distribution of Secondary Secondary Treatment - 0.29%, Disinfection - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Is-Purch-Reproduction	\$71,213 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Sr-DPW-Architecture	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$Headworks - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, Secondary Treatment - 0.29%, Solids Headworks - 0.29%, Primary Treatment - 0.29%, Stormwater - 16.38%, Secondary Treatment - 0.29%, Solids Headworks - 0.29%, Primary Treatment - 0.29%, Stormwater - 16.38%, Solids,
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Sr-DPW-Building Repair	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$0 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%, Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids
WWE Op Annual Account Ctrl	WWE1003 Source Control	UC Wastewater Treatment	5810OthDep	Sr-SAS-Building Repair	Headworks - 0.29%, Primary Treatment - 0.29%, Secondary Treatment - 0.29%, Disinfection / Discharge - 0.29%, Solids \$82,552 Handling - 0.29%, Pumping / Lift Stations - 0.29%, Stormwater - 16.38%, General Collections - 81.9%,
WWE Op Annual Account Ctrl	Total				\$9,138,277

			Account Lvl 5		0&M	
Fund Title	Dept ID Title	Project Title	Title	Account Title	Expenses	Functional Allocation Basis
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5010Salary	Overtime - Scheduled Misc	\$7,125	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5010Salary	Perm Salaries-Misc-Regular	\$3,662,032	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5010Salary	Premium Pay - Misc	\$2,375	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5010Salary	Temp Misc Regular Salaries	\$33,979	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Dental Coverage	\$27,313	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Dependent Coverage	\$312,475	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Health Service-City Match	\$115,872	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Long Term Disability Insurance	\$12,714	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Retire City Misc	\$520,601	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Retiree Health-Match-Prop B	\$22,961	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	RetireeHlthCare-CityMatchPropC	\$14,097	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Social Sec-Medicare(HI Only)	\$53,727	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Social Security (OASDI & HI)	\$219,958	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5130Fringe	Unemployment Insurance	\$3,705	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5210NPSvcs	Fees Licenses Permits	\$21,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5210NPSvcs	Maint Svcs-Equipment-Budget	\$69,173	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5210NPSvcs	Other Current Expenses - Bdgt	\$12,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5210NPSvcs	Prof & Specialized Svcs-Bdgt	\$45,000	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5210NPSvcs	Rents & Leases-Equipment-Bdgt	\$7,500	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5400Mat&Su	Other Equipment Maint Supplies	\$16,200	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5400Mat&Su	Other Hosp, Clinics&Lab Supply	\$239,631	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5400Mat&Su	Other Materials & Supplies	\$49,500	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5600CapOut	Equipment Purchase-Budget	\$0	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5600CapOut	Medical, Dental & Lab Equipmnt	\$0	Indirect - 100.%,
WWE Op Annual Account Ctrl	WWE11 Wastewater Lab	UC Wastewater Treatment	5600CapOut	Other Equipment	\$324,735	Indirect - 100.%,
WWE Op Annual Account Ctrl To	tal				\$5,793,674	
			Account Lvl 5			

Fund Title	Dept ID Title	Project Title	Title	Account Title	O&M Expenses	Functional Allocation Basis
WWE Annual Authority Ctrl						
WWE Annual Authority Ctrl	WWE0101 Administration	525 Golden Gate - Lease Payı	me5610FacMai	Facilities Maintenance-Budget	\$2,416,551	Indirect - 100.%,
WWE Annual Authority Ctrl	WWE0101 Administration	525 Golden Gate - O & M	5610FacMai	Facilities Maintenance-Budget	\$1,372,000	Indirect - 100.%,
WWE Annual Authority Ctrl	WWE0101 Administration	Low Impact Development	5610FacMai	Facilities Maintenance-Budget	\$681,000	Stormwater - 100.%,
WWE Annual Authority Ctrl	WWE0101 Administration	Wastewater Add-backs Mast	er 5060ProgPr	Programmatic Projects-Budget	\$0	Indirect - 100.%,
WWE Annual Authority Ctrl	WWE0101 Administration	Youth Employment & Environ	nm5610FacMai	Facilities Maintenance-Budget	\$697,000	Indirect - 100.%,
WWE Annual Authority Ctrl	WWE03 Maintenance	Treasure Island - Maintenan	ice 5610FacMai	Facilities Maintenance-Budget	\$2,600,000	Indirect - 100.%,
WWE Annual Authority Ctrl Tota	al l				\$7,766,551	

APPENDIX J:

Sewer Cost of Service: Detailed Units of Service

Units of Service Detailed Calculation (Flow)

		Units of Service (CCF)					
Line	Customer Type	Flow (Total)	Flow (Dry)	Flow (Wet)	Infil. (Flow Alloc)	Infil. (Acct. Alloc)	Total
1	Single Family Residential	5,745,781	5,745,781		996,201	805,530	7,547,512
2	Multifamily Residential	9,720,649	9,720,649		1,685,362	262,881	11,668,893
3	Municipal	502,612	502,612		87,143	5,748	595,502
4	Nonresidential/Commercial	5,747,608	5,747,608		996,518	109,514	6,853,641
5	Fire	28,194	28,194		4,888	70,510	103,592
6	Municipal Fire	580	580		101	2,554	3,235
7	Total Wastewater	21,745,424	21,745,424		3,770,213	1,256,738	26,772,375
8							
9	Stormwater	5,849,076		5,849,076	0	0	5,849,076
10	Total	27,594,500	21,745,424	5,849,076	3,770,213	1,256,738	32,621,451
11							
12			Unit COS (\$/CCF)				
13	Unit of Service	Flow (Total)	Flow (Dry)	Flow (Wet)			
14	cos	\$232,350,042	\$158,611,420	73,738,622			
15	Units of Service	32,621,451	26,772,375	5,849,076			
16	Unit COS	\$7.12	\$5.92	\$12.61			
17	Units	\$/CCF	\$/CCF	\$/CCF			

Units of Service Detailed Calculation (COD)

		COD (Poun	ds)
Line	Customer Type	Contributed	Total
1	Single Family Residential	24,534,916	24,534,916
2	Multifamily Residential	41,507,991	41,507,991
3	Municipal	2,125,773	2,125,773
4	Nonresidential/Commercial	26,119,805	26,119,805
5	Fire	0	0
6	Municipal Fire	0	0
7	Total Wastewater	94,288,484	94,288,484
8			
9	Stormwater	10,365,927	10,365,927
10	Total	104,654,412	104,654,412
11			
12		Unit Cost (\$/lb)	
13	Unit of Service	COD	
14	COS	\$82,350,784	
15	Units of Service	104,654,412	
16	Unit COS	\$0.79	
17	Units	\$/Pound	

Units of Service Detailed Calculation (TSS)

		TSS (Pou	nds)
Line	Customer Type	Contributed	Total
1	Single Family Residential	10,007,662	10,007,662
2	Multifamily Residential	16,930,858	16,930,858
3	Municipal	840,158	840,158
4	Nonresidential/Commercial	8,543,674	8,543,674
5	Fire	0	0
6	Municipal Fire	0	0
7	Total Wastewater	36,322,352	36,322,352
8			
9	Stormwater	3,699,771	3,699,771
10	Total	40,022,124	40,022,124
11			
12		Unit Cost (\$/lb)	
13	Unit of Service	TSS	
14			
14	COS	\$61,887,487	
15	Units of Service	40,022,124	
16	Unit COS	\$1.55	
17	Units	\$/Pound	

Units of Service Detailed Calculation (OG)

		O/G (Pou	nds)
Line	Customer Type	Contributed	Total
1	Single Family Residential	3,048,930	3,048,930
2	Multifamily Residential	5,158,178	5,158,178
3	Municipal	231,016	231,016
4	Nonresidential/Commercial	3,336,919	3,336,919
5	Fire	0	0
6	Municipal Fire	0	0
7	Total Wastewater	11,775,042	11,775,042
8			
9	Stormwater	379,531	379,531
10	Total	12,154,574	12,154,574
11			
12		Unit Cost (\$/lb)	
13	Unit of Service	O/G	
14	COS	\$12,449,581	
15	Units of Service	12,154,574	
16	Unit COS	\$1.02	
17	Units	\$/Pound	

Units of Service Detailed Calculation (Customer Bills)

		Custon	ner
Line	Customer Type	Accounts	Bills
1	Single Family Residential	111,671	1,340,050
2	Multifamily Residential	36,443	437,320
3	Municipal	797	9,562
4	Nonresidential/Commercial	15,182	182,184
5	Fire	9,775	117,298
6	Municipal Fire	354	4,249
7	Total Wastewater	174,222	2,090,663
8			
9	Stormwater		
10	Total	174,222	2,090,663
11			
12	Unit Cost of Service		
13	Unit of Service	Customer	
14	cos	\$152,866	
15	Units of Service	2,090,663	
16	Unit COS	\$0.07	
17	Units	\$/Bill	