CITY OF SEBASTOPOL CITY COUNCIL

AGENDA ITEM REPORT FOR MEETING OF: June 4, 2024

To: Honorable Mayor and City Councilmembers

From: Don Schwartz, City Manager

Subject: Water and Wastewater Rates Discussion and Approval of Contract Amendment

RECOMMENDATIONS:

It is recommended that Council receive additional information as requested, provide further direction to staff regarding the water rates, and authorize the City Manager to approve a contract amendment to the Professional Services Agreement with Raftelis for providing additional out-of-scope work and preparing an updated Water and Wastewater Rate Study Report for amount not-to-exceed \$54,216. The updated report is legally required to be prepared to support Council's selected option(s) for water and sewer rates. The out-of-scope work is for tasks completed by Raftelis at the direction of staff starting in January 2024. Staff is requesting additional funds to complete the Report as well as fund the tasks that were not within the scope of work.

EXECUTIVE SUMMARY:

As the Council is aware, the water and sewer rates have not covered the costs of operating the City's water and sewer systems since Fiscal Year 2019-20. In addition to the fiscal condition of the Enterprise funds, the City's water and wastewater systems are in poor condition. The Council, at multiple meetings, has been presented water and wastewater rate increases that are necessary to cover these costs.

Water and Wastewater Rate Options (Option 2 as Requested from City Council)

On May 21, 2024, staff presented the draft Water and Wastewater Rate Study Report that was prepared based on Council's decision at the April 23, 2024 meeting. The Council-selected options that formed the basis of the draft Report were for Option 1 water rates and Option 2 sewer rates.

At the May 21, 2024 meeting, Council asked what the rates would be if Option 2 water rates and Option 2 sewer rates were selected. Option 2 is a lower level of service than Option 1 and would result in lower rates. Staff was unable to provide the Option 2 water rates during the meeting and Council asked that the Option 2 water rates be presented to Council before a final decision could be made and the Option 2 rates are shown below. For ease of reference Attachment 2 includes water and wastewater rates for options 1 and 2.

Option 2-Water Rate Schedule – Fixed Bimonthly

Meter Size	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
5/8"x3/4" & 3/4"	\$49.33	\$67.68	\$70.39	\$73.21	\$75.78	\$78.44
1"	\$82.41	\$111.95	\$116.43	\$121.09	\$125.33	\$129.72
1.5"	\$164.13	\$222.59	\$231.50	\$240.76	\$249.19	\$257.92
2"	\$262.77	\$355.37	\$369.59	\$384.38	\$397.84	\$411.77
3"	\$575.37	\$775.82	\$806.86	\$839.14	\$868.51	\$898.91
4"	\$821.78	\$1,395.46	\$1,451.28	\$1,509.34	\$1,562.17	\$1,616.85

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Option 2 – Water Rate Schedule – Bimonthly (volumetric)

Customer Class	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Residential						
Tier 1: 0 - 7 kgal	\$4.52	\$5.01	\$5.22	\$5.43	\$5.63	\$5.83
Tier 2: 8 - 16 kgal	\$4.52	\$6.39	\$6.65	\$6.92	\$7.17	\$7.43
Tier 3: > 16 kgal	\$4.52	\$8.87	\$9.23	\$9.60	\$9.94	\$10.29
Commercial	\$4.52	\$5.51	\$5.74	\$5.97	\$6.18	\$6.40
Irrigation	\$4.52	\$9.92	\$10.32	\$10.74	\$11.12	\$11.51

Option 2-Wastewater Rate Schedule- Bimonthly

Charge	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Revenue Adjustme	ent	50.0%	11.0%	9.0%	9.0%	9.0%
Meter Size, \$/bi-r	no					
5/8x3/4" & 3/4"	\$76.61	\$95.25	\$105.73	\$115.25	\$125.63	\$136.94
1"	\$127.97	\$258.35	\$286.77	\$312.58	\$340.72	\$371.39
1.5"	\$254.86	\$657.20	\$729.50	\$795.16	\$866.73	\$944.74
2"	\$408.03	\$841.02	\$933.54	\$1,017.56	\$1,109.15	\$1,208.98
3"	\$893.44	\$2,093.81	\$2,324.13	\$2,533.31	\$2,761.31	\$3,009.83
4"	\$1,276.06	\$6,307.17	\$7,000.96	\$7,631.05	\$8,317.85	\$9,066.46
Volume, \$/kgal	\$10.31	\$15.47	\$17.18	\$18.73	\$20.42	\$22.26

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Contract Amendment for Raftelis Contract

Due to the extra work performed by Raftelis, they have expended more than the funds included in their contract on tasks outside of the scope of work of the contract. In October, Raftelis raised this issue with City staff; it was not resolved. Raftelis states that they mentioned to City staff in February that they were over budget. City procedures typically would have brought forward a contract amendment for Council consideration. Both Raftelis and City staff acknowledge there was a lack of communication regarding compensation for this work and the need for a formal contract amendment. To correct this situation, staff recommends approval of the amendment as described in the attached letter (Attachment 4). Raftelis has credited the City in recognition of Council's concerns about the October 2023 meeting. The credit includes all time spent preparing for and presenting to Council at that meeting, and time spent by an executive at the firm to reset the project to meet the City's objectives.

However, if Council chooses not to approve a contract amendment, Raftelis has indicated that they will meet their contractual obligations by emailing the Water and Wastewater Rate Study Report based on the draft presented at the April 23, 2024 meeting and a presentation for staff use at the June 18 public hearing. Raftelis would not attend the June 18 public hearing to answer technical questions.

BACKGROUND AND DISCUSSION:

Water and Wastewater Rate Options

The Draft Financial Plan report was presented to Council at the April 23, 2024 meeting and is included as Attachment 1 for ease of reference. The Option 1 water rates and Option 2 sewer rates can be found in the Draft report.

Should Council decide to move forward with Option 2 rates for both water and wastewater, the comparison with nearby cities is shown in the table that follows. The combined bill, compared with the April 23, 2024 selection of Option 1 water and Option 2 wastewater, is reduced from \$157.26 to \$155.28 for a typical single family home. The table below is based on an average Single Family Residential user who uses 4,500 gallons per month and a winter average (for sewer billing) of 2,500 gallons per month under a combined bill for water (Option 2) and sewer (Option 2).

Agency	Water (2)	Wastewater (2)	Total Monthly Bill (FY 2024-
			2025)
Rohnert Park	\$55.28	\$51.62	\$106.90
Windsor	\$29.93	\$78.91	\$108.84
Sebastopol (Current)	\$45.01	\$69.24	\$114.24
Santa Rosa	\$46.62	\$75.77	\$122.39
Petaluma	\$51.05	\$79.26	\$130.31
Cloverdale	\$79.18	\$57.06	\$136.24
Cotati	\$50.10	\$90.54	\$140.64
Sebastopol (Proposed Option 2)	\$57.77	\$94.04	\$151.81
Healdsburg St. Helena Calistoga	\$82.28 \$115.27 \$161.08	\$110.33 \$134.49 \$132.80	\$192.61 \$249.76 \$293.88

Contract Amendment for Raftelis Contract

Through a formal Request for Proposals (RFP) process, Raftelis was selected as the most qualified firm to prepare the City's Water and Wastewater Financial Plan and Cost of Service Study and was awarded the contract on May 12, 2023 for amount not to exceed \$74,143. Below are some of the key elements in the project:

- Provide tiered rates for single-family residential customers to address equity and affordability and setting a structure that could support drought rates
- Consider a low level of CIP and a high level of CIP funding
- Consider an operating reserve goal of 4 months instead of 3 to provide for funding needed for more costly emergency repairs that could occur due to the City's aging system
- Because of the poor financial condition of the Enterprise funds, the goal was to have rates be adopted and in effect by February 2024
- Preparation of one (1) Draft Financial Plan and Cost of Service Study report and one (1) Final report based on the Draft report
- Attendance at one (1) public meeting to present the revenue needs and proposed rates; and receive direction on the preparation of the Financial Plan
- Attendance at one (1) public hearing to adopt the rates
- The initial schedule was to present the revenue needs and proposed rates at a Council meeting in October 2023, conduct the Prop. 218 noticing and hold a public hearing in December 2023 in order to meet the February 2024 rate implementation goal.

Due to circumstances that occurred during the course of the project, additional work by Raftelis was needed to address concerns raised at the October 23, 2023 Council meeting: the process of how the study was conducted, concerns with the information presented to Council, the importance of the City completing a Cost Allocation ("G&A") Study which should have occurred prior to initiation of the rate study, the burden placed on the General Fund, and questions of "how did we get here" in terms of the health of the Enterprise funds and their ending

cash balances. Additionally, the Council understandably requested information on rate impacts concurrently with the materials presented in October; this is atypical of rate studies in which revenue needs are identified and approved by the elected body before rate options are presented.

The resulting extra work performed by Raftelis is described in their letter and includes:

- Prepared and provided technical information for the Council at their meeting of April 23, 2024 for a Draft
 Financial Plan presentation to present options for selection, updating the expenses and resetting inputs
 to the study for the updated Cost Allocation Study results that were approved by Council in February
 2024, modifying the CIP options, consideration of General Fund loan and interest rate options
- Assisting staff with technical information for the City's ongoing and periodic updates to the FAQs, Q&A
 document, staffing options document, 5-year historical memo, responses to Council questions to staff
 received via email, and information for social media distribution, reviewing the agenda packet and
 attachments for the additional Council meeting of May 21, 2024
- Technical review of the additional Council meeting of May 21, 2024 agenda packet and attachments and virtual attendance at the meeting.

STAFF ANALYSIS:

Water and Wastewater Rate Options

The Option 2 water rates are less than the Option 1 water rates selected by Council at the meeting of April 23, 2024. Should Council decide to select and move forward with Option 2 water rates and continue with Option 2 wastewater rates, the Financial Plan report needs to be updated to reflect the correct option selected. This will take additional budget for Raftelis as this is an out of scope item. It is estimated that cost would be \$5,035 to update the Water and Wastewater Rate Study Report, prepare the presentation and attend the June 18 meeting virtually. The City Attorney has confirmed that the final Report is required to match the actual rates to be applied, and provides transparency and justification.

Due to the extra work performed by Raftelis, they have expended far more than the current budget and did so with the expectation they would be compensated for their work. Should the Council not approve the amendment, Raftelis has indicated that they would be unwilling to continue working with the City after meeting their contractual obligations. If any revisions or review is needed in the near future, the work would need to go through another RFP process with other consultants. This would likely be at a higher cost than Raftelis would provide, since they have the data and the analysis in their water model and familiarity in its use. It would also require significant work for City staff to provide the data that a new consultant would need and extra time to "break in" a new consultant to discuss City procedures, policies and past decisions pertaining to the City's rates.

A periodic review of rates would help to ensure that the City's goals of financial stability with the enterprise funds are met. The City Council approved an annual review at the April 23, 2024 meeting which included completing a Cost Allocation Study every three years, completing master plans for the water and sewer systems so we can better understand and respond to vulnerabilities, reviewing rates for water haulers, and regularly assessing the status of revenues and expenses to ensure we do not again go off track.

COMMUNITY OUTREACH:

This item has been noticed in accordance with the Ralph M. Brown Act and was available for public viewing and review at least 72 hours prior to the scheduled meeting date.

Agenda Item Number: 4
City Council Meeting Packet of: June 4, 2024
Page 4 of 84

FISCAL IMPACT:

At the May 21, 2024 meeting, Council decided that selection of Option 2 may be a better option for both Water and Wastewater, pending the information of the Water Option 2 rates provided in this report. Below is a summary of the percent increases in revenue requirements for Water Rate Option 1 (4/23/24 decision) versus Water Rate Option 2 (5/21/24 pending decision):

Table: Water Revenue Increase Requirements

	Option 1	Option 2
FY 2024-25	50%	37%
FY 2025-26	16%	4%
FY 2026-27	1.5%	4%
FY 2027-28	1.5%	3.5%
FY 2028-29	1.5%	3.5%

The enterprise funds have sufficient budget authority to fund all or part of Raftelis' request.

OPTIONS:

Water and Wastewater Rate Options

Council has the following options to consider:

- 1. Move forward with the rates as approved by the Council majority on April 23, 2024 (specifically, Option 1 Water, Option 2 Wastewater). There would be no need for an updated Water and Wastewater Rate Study Report.
- 2. Move forward with the rates as discussed by the Council on May 21, 2024 (specifically, Option 2 Water, Option 2 Wastewater). The City would need Raftelis to provide an updated Water and Wastewater Rate Study Report
- 3. Direct staff to rescind the Prop. 218 notice and provide direction on next steps. This would include either entering a new contract with Raftelis (should the Council approve the amendment for current out of scope work), or procuring a new expert consultant. Staff would also provide information on impacts to the General Fund for further financial support of and loans to the Water and Wastewater funds.

Amendment to Raftelis Contract

Council has the following options to consider:

- 1. Approve the First Amendment to the Raftelis contract for amount not to exceed \$54,216
- 2. Do not approve the First Amendment to the Raftelis contract. However, if Council chooses Option 2 for both Water and Wastewater as discussed at the May 21, 2024 meeting, an updated Water and Wastewater Rate Study Report will need to be updated by Raftelis at an additional cost of \$5,035.
- 3. Approve an amendment with Raftelis for another amount.

ATTACHMENTS:

- 1. Water and Wastewater Rate Study Report, Raftelis, dated May 15, 2024
- 2. Proposed Water and Sewer Rate Schedule for Option 2
- 3. First Amendment to Professional Services Agreement with Raftelis
- 4. Letter Request for Contract Amendment from Raftelis to City

APPROVALS:		
Department Head Approval:	Approval Date:	5/28/24

Agenda Item Number: 4
City Council Meeting Packet of: June 4, 2024

Agenda Item Number: 4

CEQA Determination (Planning): Approval Date: 5/28/24

The proposed action is not a project under the California Environmental Quality Act (CEQA)

Administrative Services (Financial) Approval Date: 5/28/24

Costs authorized in City Approved Budget: ✓ Yes ☐ No ☐ N/A

Account Code (f applicable) 500-4402-4210 and 510-4402-4210

City Attorney Approval: Approval Date: 5/28/24

City Manager Approval: Approval Date:



CITY OF SEBASTOPOL

Water and Wastewater Rate Study

DRAFT REPORT / MAY 15, 2024



Agenda Item Number: 4

Agenda Item Number: 4 City Council Meeting Packet of: June 4, 2024

Page 8 of 84



May 15, 2024

Ms. Ana Kwong Administrative Services Director City of Sebastopol 7120 Bodega Avenue Sebastopol, CA 95472

Subject: Water and Wastewater Rate Study Report – DRAFT

Dear Ms. Kwong:

Raftelis is pleased to provide this Water and Wastewater Rate Study report for the City of Sebastopol (City). The Study, including the long-range financial plans and rate design, addresses the current financial challenges within the Enterprise funds and establishes water and wastewater rates that are fair and align with California's Proposition 218 requirement.

The major objectives of the study include the following:

- Develop financial plans for the water and wastewater enterprises to build back to financial sufficiency, meet operation and maintenance costs, ensure sufficient funding for capital replacement and refurbishment (R&R) needs, and improve the overall financial health of the enterprises
- Perform a cost-of-service analysis to ensure fair and reasonable allocations of costs to user classes
- Review the current rate structure for the water and wastewater enterprises and propose alternatives that better align with the City's policy goals and community values
- Prepare a five-year schedule of rates for water and wastewater
- Document the technical work in a rate study report to serve as part of the City's administrative record

The report summarizes the key findings and recommendations related to developing the financial plans for the water and wastewater enterprises and developing the updated water and wastewater rates.

We thank you and other City staff for the support provided during this study.

Sincerely,

Kevin Kostiuk

Senior Manager

Theresa Jurotich, P.E. (KS, WA), PMP

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Manager

Agenda Item Number: 4

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Contents

1.	Exe	ecuti	ve Summary	1
	1.1.	Back	ground	1
	1.2.	Proce	ess	1
	1.3.	Propo	sed Water Financial Plan	2
	1.4.	Propo	sed Water Rates	4
		•	sed Wastewater Financial Plan	
	1.6.	Propo	sed Wastewater Rates	10
2.	Rat	te Se	tting Methodology	. 13
3.	Key	y Inp	uts and Assumptions	. 15
	3.1.	Curre	nt Water Rates	15
	3.2.	Curre	nt Wastewater Rates	15
	3.3.	Proje	cted Service Connections	16
		3.3.1.	Water	16
		3.3.2.	Wastewater	16
	3.4.	Water	Use Assumptions	17
	3.5.	Waste	ewater Flow Assumptions	18
	3.6.	Water	and Wastewater Financial Plan Assumptions	18
4.	Wa	ter F	inancial Plan	20
	4.1.	Curre	nt Rate Revenue	20
		4.1.1.	Calculated Water Rate Revenues	20
		4.1.2.	Other Revenues	21
	4.2.	Opera	ations and Maintenance Expenses	22
		4.2.1.	Total Operations and Maintenance Budget	22
		4.2.2.	Capital Improvement Plan	22
		4.2.3.	Existing and Proposed Debt Service	23
	4.3.	Reser	ve Targets	23
	4.4.	Status	s Quo Financial Plan	24
	4.5.	Propo	sed Financial Plan and Revenue Adjustments	25
5.			ost-of-Service Analysis	
	5 1	Rever	nue Requirement DeterminationAgenda Item Number:	.4. 29 24

	5.2.	Funct	ionalization of Net Revenue Requirement	. 30
	5.3.	Alloca	tion of Functionalized Net Revenue Requirements to Cost Components.	.31
		5.3.1.	Peaking Factors	. 32
		5.3.2.	Operating and Capital Allocation	. 34
	5.4.	Deriva	ation of Units of Service	. 35
		5.4.1.	Equivalent Meters	. 35
		5.4.2.	Unit Costs of Service	. 36
6.	Pro	pose	d Water Rates and Charges	38
	6.1.	Propo	sed Bi-Monthly Service Charge	.38
	6.2.	Volum	netric Rates	. 39
7.	Wa	stew	ater Financial Plan	41
	7.1.	Curre	nt Rate Revenue	. 41
		7.1.1.	Calculated Wastewater Rate Revenues	. 41
		7.1.2.	Other Revenues	. 42
	7.2.	Opera	tions and Maintenance Expenses - Wastewater	.42
		7.2.1.	Total Operations and Maintenance Budget	. 43
		7.2.2.	Capital Improvement Plan	. 43
		7.2.3.	Existing and Proposed Debt Service	. 43
	7.3.	Reser	ve Targets	.44
	7.4.	Status	Quo Wastewater Financial Plan	.44
	7.5.	Propo	sed Financial Plan and Revenue Adjustments	. 46
8.	Wa	stew	ater Cost-of-Service Analysis	5C
	8.1.	Reven	ue Requirement Determination	. 50
	8.2.	Funct	ionalization of Net Revenue Requirement	. 51
	8.3.	Alloca	tion of Functionalized Net Revenue Requirements to Cost Components.	.51
		8.3.1.	Operating and Capital Allocation	. 51
	8.4.	Deriva	ation of Units of Service	. 52
		8.4.1.	Equivalent Meters	. 52
		8.4.2.	Unit Costs of Service	. 53
9.	Wa	stew	ater Rates	54
	9.1.	Waste	water Test Year Rate Derivation	. 54
	9.2.	Propo	sed 5-Year Wastewater Rate ScheduleAgenda Item Number: 4	. 54

10.	Customer Impact Analysis	55
10.	1.Water	55
10.	2.Wastewater	57
10.	3. Combined	. 57

Tables

Table 5-11: Equivalent MetersCity Council Meeting Packet of: June 4, 2	2 <mark>024</mark> 36
Table 5-10: Allocation of Capital-Related Expenses to Cost Components	r· 1
Table 5-9: Allocation of Net Operation & Maintenance to Cost Components	
Table 5-8: Allocation of Functions to Cost Components	
Table 5-7: Max Day and Max Hour Capacity Factors by Class	
Table 5-6: Water System Peaking Factors	
Table 5-5: Projected Water Use by Class and Tier, Test Year	32
Table 5-4: Proposed Changes to the Water Rate Structure	32
Table 5-3: Functionalization of Net Capital	31
Table 5-2: Functionalization of Net O&M	30
Table 5-1: Revenue Requirement Determination, FY 2024	30
Table 4-10: Water Operating Cashflow	26
Table 4-9: Proposed Revenue Adjustments	25
Table 4-8: Status Quo Summary Water Cashflow	24
Table 4-7: Proposed Debt Service	
Table 4-6: Existing Debt Service	
Table 4-5: Projected Capital Improvement Projects	
Table 4-4: Summary of Projected Water Operations and Maintenance Expenses	
Table 4-3: Projected Other Water Enterprise Revenues	22
Table 4-2: Projected Volume Charge Revenue Under Current Rates	21
Table 4-1: Projected Fixed Charge Revenues Under Current Rates	
Table 3-7: Inflationary Assumptions	
Table 3-6: Projected Wastewater Flows, kgal	
Table 3-5: Account Growth and Water Use Assumptions	
Table 3-4: Projected Wastewater Meters	
Table 3-3: Projected Number of Water Meters	
Table 3-2: Current Wastewater Rates	
Table 3-1: Current Water Rate Structure	
Table 1-6: Proposed Five-Year Wastewater Rate Schedule	
Table 1-5: Proposed Wastewater Revenue Adjustments	
Table 1-4: Proposed Five-Year Water Rate Schedule, Volume Charges, \$/kgal	
Table 1-3: Proposed Five-Year Water Rate Schedule, Fixed Charges, \$/Bi-Mo	
Table 1-2: Proposed Changes to the Water Rate Structure	
Table 1-1: Proposed Water Revenue Adjustments	

Table 5-12: Units of Service	36
Table 5-13: Total Adjusted Cost-of-Service and Units of Service	37
Table 6-1: Bi-Monthly Service Charge Derivation, Test Year	38
Table 6-2: Proposed Bi-Monthly Fixed Water Service Charge	39
Table 6-3: Volumetric Rate Calculation	39
Table 6-4: Test Year Volumetric Rate Derivation	40
Table 6-5: Proposed 5-Year Water Volumetric Rate Schedule	40
Table 7-1: Projected Fixed Charge Revenues Under Current Wastewater Rates	42
Table 7-2: Projected Volume Charge Revenue Under Current Wastewater Rates	42
Table 7-3: Projected Other Wastewater Enterprise Revenues, Status Quo	42
Table 7-4: Summary of Projected Wastewater Operations and Maintenance Expenses	43
Table 7-5: Projected Wastewater Capital Improvement Projects	43
Table 7-6: Existing Debt Service	44
Table 7-7: Wastewater Cashflow, Status Quo	45
Table 7-8: Proposed Revenue Adjustments	46
Table 7-9: Wastewater Operating Cashflow	47
Table 8-1: Revenue Requirement Determination	50
Table 8-2: Functionalization of Net O&M	51
Table 8-3: Functionalization of Net Capital	51
Table 8-4: Allocation of Functions to Cost Components	52
Table 8-5: Allocation of Net Wastewater Operation & Maintenance to Cost Components	52
Table 8-6: Allocation of Wastewater Capital-Related Expenses to Cost Components	52
Table 8-7: Equivalent Meters	53
Table 8-8: Units of Service	53
Table 8-9: Total Wastewater Unit Costs of Service	53
Table 9-1: Wastewater Fixed Charge Derivation, Test Year	54
Table 9-2: Proposed 5-Year Wastewater Rate Schedule	54
Figures	
Figure 1-1: Proposed Water Financial Plan	
Figure 1-2: Projected Water Reserve Balances	
Figure 1-3: Water Capital Financing Plan, Inflated Dollars	
Figure 1-4: Sample Single Family Water Bill Comparison	
Figure 1-5: Sample Commercial Water Bill Comparison	6

Figure 1-6: Sample Irrigation Water Bill Comparison	7
Figure 1-7: Proposed Wastewater Financial Plan	8
Figure 1-8: Projected Wastewater Reserve Balances	g
Figure 1-9: Wastewater Capital Financing Plan, Inflated Dollars	g
Figure 1-10: Sample Single Family Wastewater Bill Comparison	10
Figure 1-11: Example Commercial Bi-Monthly Wastewater Bills	11
Figure 1-12: Sample Combined Water & Wastewater Single Family Bill	11
Figure 1-13: Combined Commercial Water and Wastewater Bill, FY 2024-25	12
Figure 3-1: Water Use by Customer Class, FY 2021-22	18
Figure 4-1: Reserve Balances Under the Status Quo	25
Figure 4-2: Proposed Operating Financial Plan	27
Figure 4-3: Projected Capital Plan and Funding Sources	28
Figure 4-4: Projected Reserve Balance	28
Figure 7-1: Wastewater Reserve Balances Under the Status QuoQuo	45
Figure 7-2: Proposed Wastewater Operating Financial Plan	48
Figure 7-3: Projected Wastewater Capital Plan and Funding Sources	48
Figure 7-4: Projected Wastewater Reserve Balance	49
Figure 10-1: Single Family Residential Bi-Monthly Bills, FY 2024-25	55
Figure 10-2: Commercial Bi-Monthly Bills, FY 2024-25	56
Figure 10-3: Irrigation Bi-Monthly Bills, FY 2024-25	56
Figure 10-4: Typical Single Family Bi-Monthly Wastewater Bill	57
Figure 10-5: Example Commercial Bi-Monthly Wastewater Bills	57
Figure 10-6: Combined Single Family Water and Wastewater Bill, FY 2024-25	58
Figure 10-7: Combined Commercial Water and Wastewater Bill, FY 2024-25	58

Appendices

Appendix A: Water O&M Allocation Appendix B: Wastewater O&M Allocation

Agenda Item Number: 4

City of Lincoln / Water and Wastewater Rate Study - DRAFT

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1. Executive Summary

1.1. Background

In 2023 the City of Sebastopol (City) contracted with Raftelis Financial Consultants (Raftelis) to conduct a Water and Wastewater Rate Study including updated ten-year financial plans, cost-of-service analyses, and updated five-year schedules of water and wastewater rates. Given the current distressed state of both enterprises and that master plans are scheduled to be completed in the next five years, this report focuses on the first five years of the financial plans, the cost-of-service analyses, and the resulting water and wastewater rates.

This Executive Summary describes the rate study process, methodology, and recommendations for the City's water and wastewater rates. The City's last rate study was in 2019 and projected rates through FY 2023-24. The City wishes to establish fair and equitable rates that:

- Meet the City's water and wastewater enterprise fiscal needs for operation and maintenance costs, capital replacement and refurbishment (R&R) costs to maintain the system, reserve goals, and to improve the financial health of each enterprise, and
- Prepare a five-year schedule of water and wastewater rates that align with Proposition 218

The City's water enterprise serves the City of Sebastopol. The enterprise provides potable water service to a population of over 7,300 people in the City through almost 3,000 connections. On an annual basis, the City delivers approximately 825 acre-feet (AF) of potable water.

The City provides wastewater collection services, conveying the wastewater to a subregional treatment facility. The City's wastewater enterprise serves most of the City of Sebastopol. The City provides wastewater collection services to approximately 2,700 connections.

1.2. Process

Raftelis developed water and wastewater financial plans for the City by working with City staff to refine inputs and assumptions. The financial plans show the total revenue adjustments needed to meet capital investment, operational expenses, debt service, and rebuild reserves during the five-year rate-setting period. Raftelis worked with City staff to refine inputs and provide revenue adjustment scenarios for the City Council's consideration. After developing the financial plans, Raftelis performed cost-of-service analyses and rate design to determine the water and wastewater rates based on the selected financial plan. The selected financial plan was based on a specific staffing plan, capital improvement projects, and loan payment plan selected by the City Council at a public meeting on April 23, 2024.

The current water rate consists of a bi-monthly service charge based on meter size and a uniform volumetric rate for all customers. Based on discussions with City staff, Raftelis has developed a new water rate structure incorporating tiered rates for single-family customers and separate uniform rates for commercial and irrigation customers.

The current wastewater rate structure consists of a bi-monthly service charge based on meter size and a volumetric rate. The different meter charges are currently based on safe operating charge and attraction water use is used for residential customers and attraction through the consists of a bi-monthly water water use is used for residential customers and attraction through the consists of a bi-monthly water water use is used for residential customers and attraction through the consists of a bi-monthly water water use is used for residential customers and attraction to the consists of a bi-monthly service charge based on meter size and a volumetric rate. The different meter charges are currently based on safe operating the consists of a bi-monthly service charge based on meter size and a volumetric rate.

customers to determine the volumetric charges for customers. Raftelis recommends maintaining this approach. Raftelis proposes using winter average use by meter size instead of safe operating capacity to differentiate fixed wastewater charges, as this is a better indicator of the relative wastewater flow generated at each meter size.

1.3. Proposed Water Financial Plan

Raftelis, with the assistance of City staff, conducted a status quo cash flow analysis to evaluate whether existing water rates can adequately fund the City's various water-related expenses over the study period. The analysis projected annual revenues, operation and maintenance expenses, debt service payments, and capital expenditures through FY 2033-34. Raftelis projects that with no rate increases over the study period, the water enterprise will be operating in a deficit each year and run out of reserves in the first year. This projected outcome demonstrates a clear need for water revenue adjustments to meet annual operating, maintenance, and capital renewal and replacement projects and rebuild reserve levels. Raftelis worked with City staff to develop the following proposed revenue adjustments over the five-year study period (see Table 1-1). The proposed water revenue adjustments were developed to ensure the water operating fund has sufficient funds to cover annual expenses and build reserves to minimum levels by the end of FY 2025-26. Meeting this minimum will be important when obtaining debt for capital projects. The operating reserve minimum is 25 percent of annual operating expenses, including debt service. The City does not have a separate capital reserve. The total operating reserve represents a minimum level of cash on hand. Given the current water enterprise financial status, Raftelis recommends that reserve levels be reviewed during the next rate study.

Table 1-1: Proposed Water Revenue Adjustments

	Revenue
Fiscal Year	Adjustment
FY 2024-25	50.0%
FY 2025-26	16.0%
FY 2026-27	1.5%
FY 2027-28	1.5%
FY 2028-29	1.5%

Key factors influencing the need for proposed revenue adjustments include:

- Current water rates are insufficient to cover annual operating and maintenance expenses.
- The water operating fund needs to become self-sufficient and meet operating reserves to help manage short-term cashflow and have funds for emergencies.
- Obtaining debt financing will be very difficult given the water enterprise's status. Rating agencies will want to see a clear path towards revenue sufficiency.

Figure 1-1 shows the proposed five-year financial plan. Status Quo revenue is shown by the light blue line. Projected revenue is shown by the black line. Annual expenditures are shown by the columns. The yellow bars above the axis (\$0 line) show the net cash used to build up the reserves and the bars below the axis show any withdrawals from reserves to fund costs. Current rates are insufficient to cover annual operating and maintenance expenses and capital-related expenditures. Therefore, revenue adjustments are required to generate sufficient revenue to cover annual operating and maintenance costs, cash-funded capital projects, and cash reserve funding over the study period. Agenda Item Number: 4

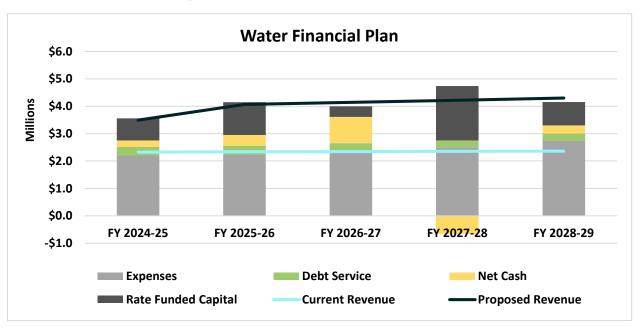


Figure 1-1: Proposed Water Financial Plan

Figure 1-2 shows projected reserve balance over the rate-setting period relative to the City's minimum reserve level under the proposed financial plan. Reserves are built up the first three years, in part due to using a loan to fund the Well #4 replacement project, and then drawn down in FY 2027-28 to help cover larger than average capital expenditures in that year. However, the overall balance is growing each year thereafter.

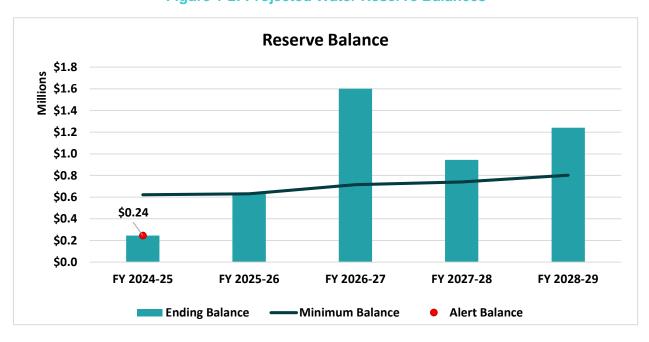


Figure 1-2: Projected Water Reserve Balances

Figure 1-3 shows the proposed water capital financing plan over the rate-setting period. The proposed financial plan assumes that the Well #4 replacement project will be debt financed with external borrowing.

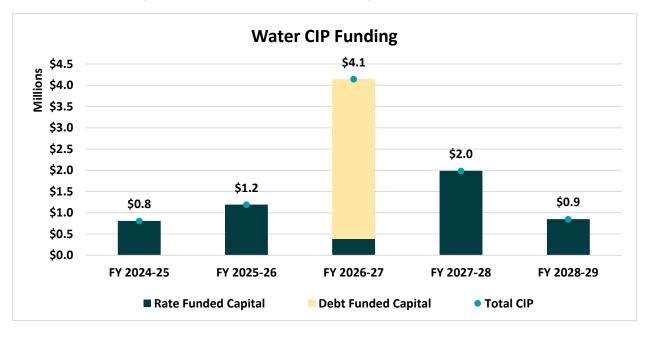


Figure 1-3: Water Capital Financing Plan, Inflated Dollars

1.4. Proposed Water Rates

The City's existing water rate structure consists of a fixed bi-monthly charge (based on meter size) and variable volume rate (per thousand gallons (kgal) of water delivered). Due to City staff concerns regarding the equity of a single uniform volumetric rate and overall guiding principles of financial stability, affordability of service, and equity, Raftelis examined the FY 2021-22 billing data at the customer class level using the customer classes identified in the data. Upon review of the billing data, Raftelis worked closely with City staff to evaluate potential changes to the existing water rate structure. The following changes are proposed:

- **Single Family Residential Tiers:** Raftelis proposes that the City introduce a three-tiered rate structure for customers identified as Residential in the billing database. Tier 1 will be defined as the first 7 units of water (kgal) in a two-month period (i.e., bi-monthly), which represents use up to the lowest average water use per billing period during the winter months. Winter use approximates essential indoor water use—for cooking, drinking, and sanitation, and not outdoor irrigation. Over an entire year, 55 percent of residential billed usage falls between 0 - 7 kgal. Tier 2 will include use greater than Tier 1, up to 16 kgal per billing period, which is based on the highest average water use per billing period during the summer months. This tier is designed to approximate water used for outdoor irrigation. Approximately 25 percent of annual residential usage falls between 8 – 16 kgal. Tier 3 will include all use greater than Tier 2, which is approximately 20 percent residential usage. Single family residential is a homogenous customer class, which has similar indoor needs for health and sanitation, similar outdoor irrigation needs, and similar seasonality in these demand patterns. It is therefore appropriate to tier this class of like customers. The three-tier structure will provide lower cost water in the first tier and higher costs in the second and third tiers. This will promote affordability of service for lower to average use residential customers while including a conservation price signal between the tiers. The proposed monthly allotments for residential customers are shown below in Table 1-2.
- All Other Classes: Raftelis recommends that all other customer classes be billed a uniform rate by class. Based on the billing data, two distinct classes are identified: Commercial (which also includes Apartments, Non-Profit, and Government as identified in the billing data) and Irrigation. Non-

Agenda Item Number: 4

residential classes have highly varying demand patterns based on the type of business or seasonal transient effects. For this reason a uniform rate by class is proposed.

While single family residential and non-single family customers will have different billing structures, all customers will pay roughly the same average rate.

Table 1-2: Proposed Changes to the Water Rate Structure

Description	Current Bi-Monthly Allotment	Proposed Bi-Monthly Allotment
Single Family Residential		
Tier 1	N/A Uniform	0 - 7 kgal
Tier 2	N/A Uniform	8 - 16 kgal
Tier 3	N/A Uniform	> 16 kgal
All Other Classes	Single Uniform Rate	Uniform by Class

Table 1-3 and Table 1-4 show the proposed five-year water rate schedule through FY 2028-29 for fixed charges and volume charges, respectively. Proposed FY 2024-25 rates are calculated based on the results of the cost-of-service analysis and the overall revenue adjustment for that year. Proposed rates beginning in FY 2025-26 are calculated by increasing the prior year's proposed rates by the proposed annual revenue adjustments. The City bills customers for service every two months (bi-monthly). Water volume charges (water use) are billed in units of one thousand gallons (kgal).

Table 1-3: Proposed Five-Year Water Rate Schedule, Fixed Charges, \$/Bi-Mo.

Meter Size	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
5/8"x3/4" & 3/4"	\$49.33	\$74.10	\$85.96	\$87.25	\$88.56	\$89.89
1"	\$82.41	\$122.57	\$142.19	\$144.33	\$146.50	\$148.70
1.5"	\$164.13	\$243.71	\$282.71	\$286.96	\$291.27	\$295.64
2"	\$262.77	\$389.09	\$451.35	\$458.13	\$465.01	\$471.99
3"	\$575.37	\$849.44	\$985.36	\$1,000.15	\$1,015.16	\$1,030.39
4"	\$821.78	\$1,527.87	\$1,772.33	\$1,798.92	\$1,825.91	\$1,853.30

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Table 1-4: Proposed Five-Year Water Rate Schedule, Volume Charges, \$/kgal

Customer Class	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Residential						
Tier 1: 0 - 7 kgal	\$4.52	\$5.48	\$6.36	\$6.46	\$6.56	\$6.66
Tier 2: 8 - 16 kgal	\$4.52	\$6.99	\$8.11	\$8.24	\$8.37	\$8.50
Tier 3: > 16 kgal	\$4.52	\$9.71	\$11.27	\$11.44	\$11.62	\$11.80
Commercial	\$4.52	\$6.03	\$7.00	\$7.11	\$7.22	\$7.33
Irrigation	\$4.52	\$10.86	\$12.60	\$12.79	\$12.99	\$13.19

Figure 1-4 shows the bill comparison for a single family customer on a 5/8"x3/4" meter at a range of billed usage levels for FY 2024-25. The single family class has a typical water usage of 9 kgal per billing period. Figure 1-5 shows the bill comparison for a commercial customer on a 5/8"x3/4" meter at a range of billed usage for FY 2024-25.

Agenda Item Number: 4

Single Family Water Bi-Monthly Bill, 5/8"x3/4" \$250.00 \$200.00 \$150.00 \$100.00 \$50.00 \$0.00 Very Low - 2 Medium - 9 Very High - 21 Low - 5 kgal High - 13 kgal kgal kgal kgal **■ Current Bill** \$58.37 \$71.93 \$90.01 \$108.09 \$144.25 FY 2024-25 \$85.06 \$101.50 \$126.44 \$154.40 \$223.92 ■ Current Bill ■ FY 2024-25

Figure 1-4: Sample Single Family Water Bill Comparison



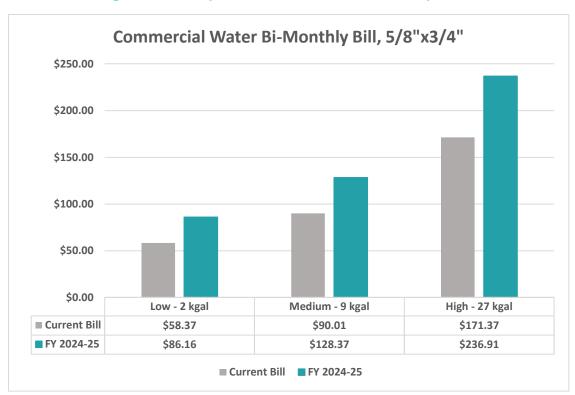


Figure 1-6 shows a bill comparison for an irrigation customer on a 1.5" meter at a range of billed usage for FY 2024-25.

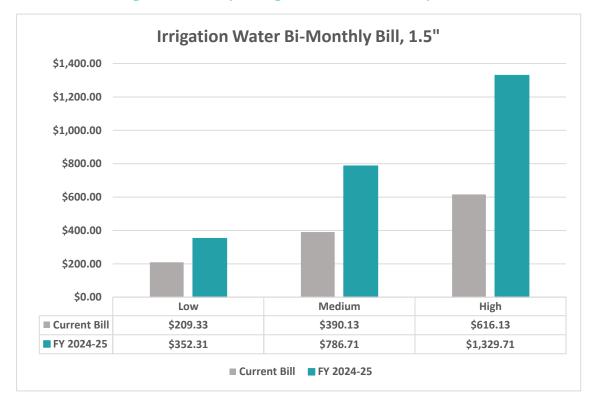


Figure 1-6: Sample Irrigation Water Bill Comparison

1.5. Proposed Wastewater Financial Plan

With the assistance of City staff, Raftelis conducted a Status Quo cash flow analysis to evaluate whether existing wastewater rates can adequately fund the City's collection-system and treatment expenses over the ten-year study period. The analysis projected annual revenues, operation and maintenance expenses, debt service payments, and capital expenditures through FY 2033-34. Raftelis projects that with no rate increases over the study period, the City's wastewater enterprise will continue running in a deficit position each year. This demonstrates a clear need for wastewater revenue adjustments during the rate-setting period to cover annual operating and maintenance costs, debt service, cash-funded capital projects, and cash reserves. Raftelis worked with City staff to develop the following proposed wastewater revenue adjustments over the five-year rate-setting period (Table 1-5). The proposed revenue adjustments were selected to build the wastewater operating fund back to revenue sufficiency to cover annual expenses, and to eventually build reserves to minimum levels within five years.

Table 1-5: Proposed Wastewater Revenue Adjustments

	Revenue
Fiscal Year	Adjustment
FY 2024-25	50.0%
FY 2025-26	11.0%
FY 2026-27	9.0%
FY 2027-28	9.0%
FY 2028-29	9.0%

Key factors influencing the need for proposed wastewater revenue adjustments include:

- The wastewater enterprise is expected to be in deficit of approximately \$1.1 million by the end of the current fiscal year, FY 2023-24, which will be treated as a loan from the City's General Fund and repaid over time.
- Revenues are insufficient to cover annual operating and maintenance costs, much less capital-related costs.
- Need to return the wastewater enterprise to a self-sufficient enterprise.
- Need to build up reserves to a minimum level for working capital and mitigate system risk.

Figure 1-7 shows the proposed wastewater financial plan. Status Quo revenue is shown by the light blue line. Projected revenue is shown by the black line. Annual expenditures are shown by the columns. Expenses include repayment starting in FY 2026-27 of the estimated \$1.1 million borrowed from the General Fund, presuming a 5-year payback and 3 percent interest rate. The yellow bar represents net cash. If the yellow bar is below the axis, this indicates that reserves are being drawn upon to cover expenses. If the yellow bar is above the axis, it indicates that revenue is being added to reserves. In FY 2028-29 a very small draw on reserves is projected. Current rates are not sufficient to cover annual operating and maintenance expenses nor capital-related expenditures.

Figure 1-7: Proposed Wastewater Financial Plan

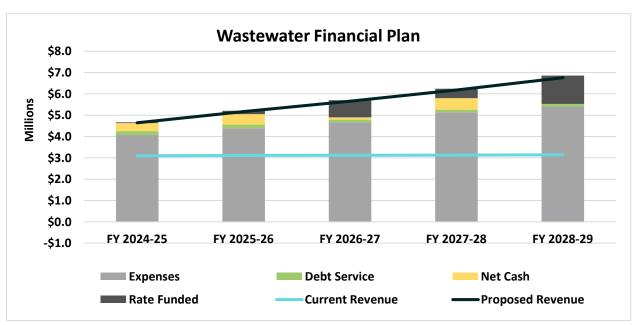


Figure 1-8 shows projected wastewater reserve balances over the rate-setting period relative to the minimum reserve level under the proposed financial plan. The overall balance grows in the first four years, then slightly decreases due to a larger capital plan in the fifth year but is maintained above the minimum balance.

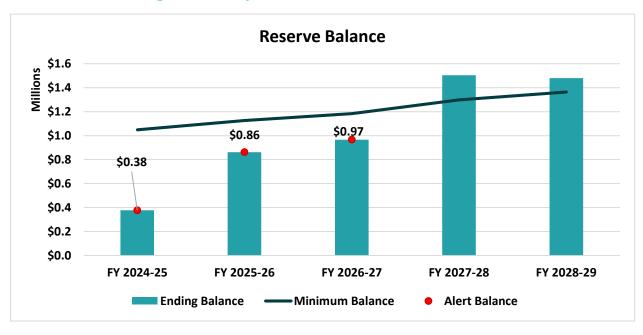


Figure 1-8: Projected Wastewater Reserve Balances

Figure 1-9 shows the proposed wastewater capital financing plan over the rate-setting period. The proposed wastewater financial plan assumes that all capital projects over the study period will be cash-funded through rate revenue.

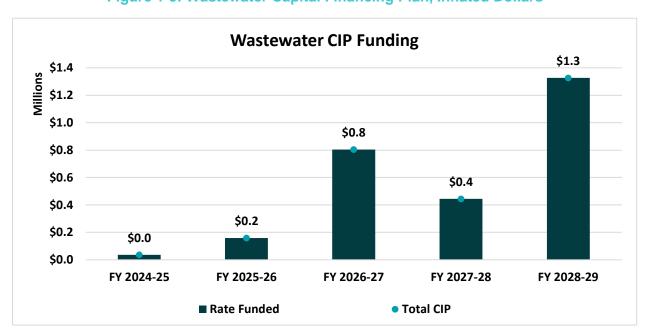


Figure 1-9: Wastewater Capital Financing Plan, Inflated Dollars

1.6. Proposed Wastewater Rates

Table 1-6 shows the proposed five-year wastewater rate schedule through FY 2028-29. No structural changes are proposed for wastewater service. Customers will still be charged a fixed bi-monthly service charge based on meter size and a volumetric rate based on average winter use for residential customers or billed water use for all other customers. However, the fixed charge has been updated to reflect winter average use by meter size instead of safe operating capacity to differentiate fixed wastewater charges, as this is a better indicator of the relative wastewater flow generated at each meter size. Proposed FY 2024-25 rates are calculated based on the results of the cost-of-service analysis, including proposed updates to the rate differentials at each meter size, and the overall revenue adjustment for that year. Proposed rates beginning in FY 2025-26 are calculated by increasing the prior year's proposed rates by the proposed annual revenue adjustments.

Charge Current 7/1/2024 7/1/2025 7/1/2026 7/1/2027 7/1/2028 Meter Size, \$/bi-mo 5/8x3/4" & 3/4" \$76.61 \$95.25 \$105.73 \$115.25 \$125.63 \$136.94 1" \$127.97 \$258.35 \$312.58 \$371.39 \$286.77 \$340.72 1.5" \$254.86 \$657.20 \$729.50 \$795.16 \$866.73 \$944.74 2" \$408.03 \$841.02 \$933.54 \$1,017.56 \$1,109.15 \$1,208.98 3" \$893.44 \$2,093.81 \$2,324.13 \$2,533.31 \$2,761.31 \$3,009.83 4" \$1,276.06 \$6,307.17 \$7,000.96 \$7,631.05 \$8,317.85 \$9,066.46 \$10.31 Volume, \$/kgal \$15.47 \$17.18 \$18.73 \$20.42 \$22.26

Table 1-6: Proposed Five-Year Wastewater Rate Schedule

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Figure 1-10 shows the bill comparison for a single-family customer on a 5/8"x3/4" meter with a typical winter water use of 6 kgal.

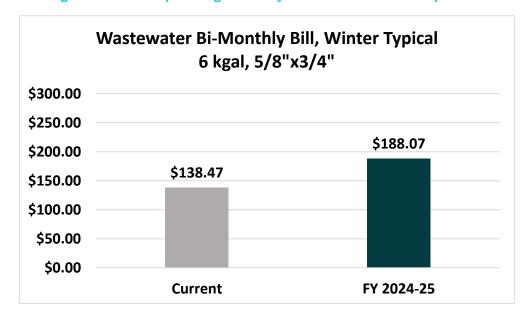


Figure 1-10: Sample Single Family Wastewater Bill Comparison

Figure 1-11 shows commercial bi-monthly wastewater bills at low, medium, and high water use levels.

Wastewater Bi-Monthly Bill, Commercial, 5/8"x3/4" \$600.00 \$500.00 \$400.00 \$300.00 \$200.00 \$100.00 \$0.00 2 kgal 9 kgal 27 kgal ■ Current ■ FY 2024-25

Figure 1-11: Example Commercial Bi-Monthly Wastewater Bills

Figure 1-12 shows the combined bill comparison for a typical single-family customer, using the winter average of 6 kgal per billing period.

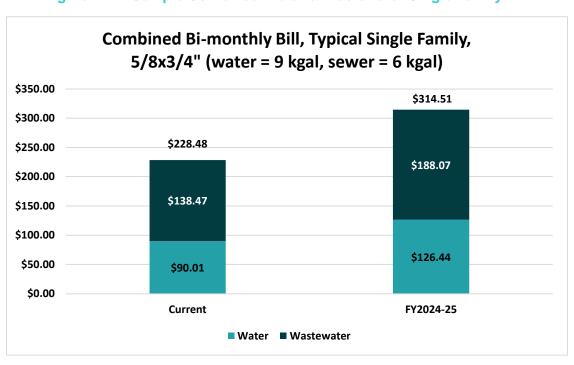
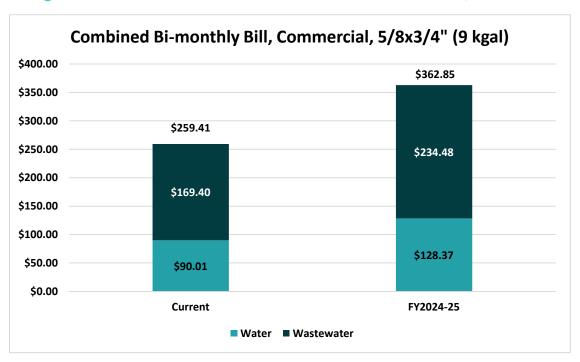


Figure 1-12: Sample Combined Water & Wastewater Single Family Bill

Figure 1-13 shows the combined commercial water and wastewater bill at a medium usage of 9 kgal.

Figure 1-13: Combined Commercial Water and Wastewater Bill, FY 2024-25



2. Rate Setting Methodology

This study was conducted using industry-standard principles outlined by the American Water Works Association (AWWA) Manual M1 and Water Environment Federation (WEF) Manual of Practice No. 27. The process and approach Raftelis used in the study to determine water and wastewater rates was informed by the City's policy objectives, the current water and wastewater systems and rates, and the legal requirements in California (namely, Proposition 218). The resulting financial plans, cost of service analyses, and rate design process follows five key steps, outlined below, to determine proposed rates that fulfill the City's objectives, meet industry standards, and align with relevant regulations.

- 1. **Financial Plan Projections:** The first step is to develop a multi-year financial plan that projects the City's revenues, expenses, capital project financing, annual debt service, and reserve funding. The financial plan is used to determine multi-year revenue adjustments, which allow the City to recover adequate revenues to fund expenses and reserves each year.
- 2. **Financial Plan Revenue Requirement Determination:** After completing the financial plan, the ratemaking process begins by determining the revenue requirement for the test year. The test year for this study is FY 2023-24 which runs from July 1, 2023 through June 30, 2024. The revenue requirement should sufficiently fund the City's operating costs, annual debt service (including coverage requirements), capital expenditures, and reserve funding as projected based on the annual budget estimates.
- 3. **Cost-of Service-Analysis:** The annual cost of providing water/wastewater service, or the revenue requirement, is then distributed to customer classes commensurate with their use of and burden on the water/wastewater system. A cost-of-service analysis involves the following steps:
 - a. Functionalize costs the different components of the revenue requirement are categorized into functions such as supply, transmission/collection, storage, customer service, etc.
 - b. Allocate to cost causation components the functionalized costs are then allocated to cost causation components such as supply, base delivery, peaking, etc. for water and collection, customer service, etc. for wastewater.
 - c. Develop unit costs unit costs for each cost causation component are determined using units of service, such as total use, peaking units, equivalent meters, number of customers, etc., for each component.
 - d. Distribute cost components the cost components are allocated to each customer class using the unit costs in proportion to their units of service (demand and burden on the system).

A water cost-of-service analysis also considers both the average water demand and peak demand using the best available data. Peaking costs are incurred during periods of peak consumption, most often coinciding with summer water use. Additional capacity-related costs are associated with designing, constructing, operating, maintaining, and replacing facilities to meet peak demand. Peaking imposes additional costs on a water utility and is used to determine the cost burden on peaking-related facilities such as storage and distribution infrastructure.

4. **Rate Design**: After allocating the revenue requirement to each customer class, the project team designs and calculates rates. Rates do more than simply recover costs; within the legal framework and industry standards, properly designed rates should support and optimize the City's policy objectives. Agenda Item Number: 4

- Rates also act as a public information tool in communicating these policy objectives to customers. This process also includes a rate impact analysis and sample customer bill impacts.
- 5. **Report Preparation and Rate Adoption:** The final step in a rate study is to develop the report in conjunction with the rate adoption process. The report documents the study results and presents the methodologies, rationale, justifications, and calculations used to determine the proposed rates.

Values shown in report tables and figures are rounded to the digit shown. Therefore, any manual reproduction of the calculations shown may not match the precise results displayed in the report.

3. Key Inputs and Assumptions

Raftelis developed a water and wastewater rate model in Microsoft Excel to project financial and rate calculations over a ten-year study period through FY 2033-34. The City's fiscal year spans from July 1 through June 30. Projections in future years are generally made based on budgeted FY 2023-24 data using the key assumptions outlined below. All assumptions were discussed with and reviewed by City staff to ensure that the City's unique characteristics were incorporated. Note that most table values shown throughout this report are rounded to the last digit shown and, therefore, may not calculate precisely to the values shown.

3.1. Current Water Rates

Table 3-1 shows the current adopted water rates developed during the prior rate study. Customers are currently subject to two charges: 1) bi-monthly Fixed Meter Charges and 2) Volume Charges per one thousand gallons (kgal) of water delivered, which is the same for all classes. The City recently switched from metering in hundred cubic feet (ccf)¹ to kgal, so the table shows the equivalent volumetric charge on a \$/ccf and \$/kgal basis.

Charge Type Unit Rate Bi-Monthly Charge, \$/mo 5/8"x3/4" \$49.33 3/4" \$49.33 1" \$82.41 1.5" \$164.13 2" \$262.77 3" \$575.37 4" \$821.78 **Volumetric Rate** \$/ccf \$3.38 \$/kgal \$4.52 Hydrant Flat Fee, \$/mo \$36.00

Table 3-1: Current Water Rate Structure

3.2. Current Wastewater Rates

Table 3-2 shows the current adopted wastewater rates. Customers are charged a bi-monthly service charge based on meter size and a volumetric rate based on average winter use for residential customers or billed water use for all other customers. The proposed rates presented in this report maintain a fixed charge by meter but adjust the differentiating ratios based on winter water use (a proxy for wastewater generation) rather than hydraulic capacity, which represents the potential water demand of water through the meter. This approach is more representative of wastewater generation patterns and in Raftelis' professional judgment a fairer approach between meter classes.

Agenda Item Number: 4

¹ One ccf is approximately 748 gallons. One kgal is 1,000 galters Council Meeting Packet of: June 4, 2024 Page 32 of 84

Table 3-2: Current Wastewater Rates

Charge Type	Unit Rate
Bi-Monthly Charge, \$/mo	
5/8"x3/4"	\$76.61
3/4"	\$76.61
1"	\$127.97
1.5"	\$254.86
2"	\$408.03
3"	\$893.44
4"	\$1,276.06
Volumetric Rate	
\$/ccf	\$7.71
\$/kgal	\$10.31

3.3. Projected Service Connections

3.3.1. Water

Table 3-3 shows the actual number of potable water accounts by meter size for FY 2021-22 and the projected number of accounts through the rate-setting period. Based on discussions with City staff, the total number of residential accounts is projected to increase at 0.5 percent per year. Other customer types are presumed to stay flat. The number of accounts is used to forecast the amount of fixed revenue the City will receive from the monthly meter charges and the annual water use. FY 2021-22 metered connection data was the most recent complete year available at the time the rate study was initiated.

Table 3-3: Projected Number of Water Meters

Makey Cine	EV2024 22	EV2022 22	EV2022 24	EV2024 2E	EVADAE AC	EV2026 27	EV2027 20	EV2020 20
Meter Size	FYZUZ1-ZZ	FY2022-23	FY2U23-24	FY2U24-25	FY2U25-26	FY2U26-27	FY2U2/-28	FY2028-29
5/8"x3/4"	2,547	2,559	2,570	2,582	2,593	2,605	2,617	2,629
3/4"	53	53	54	54	54	54	55	55
1"	207	208	208	209	209	210	210	211
1.5"	82	82	82	82	82	83	83	83
2"	58	58	58	58	58	58	58	58
3"	10	10	10	10	10	10	10	10
4"	3	3	3	3	3	3	3	3
Construction	10	10	10	10	10	10	10	10
Total	2,970	2,982	2,995	3,008	3,020	3,033	3,046	3,059

3.3.2. Wastewater

Table 3-4 shows the current and projected wastewater meters. The number of smaller meter sizes, most common for residential customers, are projected to increase at 0.5 percent per year. The number of other meter sizes are presumed to stay flat. The FY 2021-22 metered connection data was the most recent complete year available at the time the rate study was initiated.

2,817

Meter Size FY2021-22 FY2022-23 FY2023-24 FY2024-25 FY2025-26 FY2026-27 FY2027-28 FY2028-29 5/8"x3/4" 2,505 2,518 2,582 2,493 2,531 2,543 2,556 2,569 3/4" 24 24 24 24 24 25 25 25 1" 100 101 101 102 102 103 103 104 1.5" 52 52 52 52 52 52 52 52 2" 44 44 44 44 44 44 44 44 3" 8 8 8 8 8 8 8 8 4" 3 3 3 3 3 3 3 3

2,763

2,777

2,790

2,803

2,750

Table 3-4: Projected Wastewater Meters

3.4. Water Use Assumptions

2,737

2,724

Total

FY 2021-22 water use data was the most recent complete year available at the time the rate study was initiated. Projected water use presumes that customers within each customer class continue to use water similarly to recent, historical water use on an average per account basis. Water utilities across California have experienced significant declines in per capita water use in the past decade with periods of multi-year drought and record or near record winters. Throughout the state, water service providers are being conservative in their per capita projections so as not to overestimate rebounds in customer demands and therefore overestimate rate revenues.

Account growth is applied to the number of accounts for each class to determine the water sales each year. Assumptions of account growth and resulting water sales are shown in Table 3-5. The "Year-to-Year Change" line shows that fiscal year's consumption in relation to the previous fiscal year. Since account growth is only anticipated for residential customers, overall water sales are projected to increase at slightly less than the residential account growth.

Table 3-5: Account Growth and Water Use Assumptions

	FY2022-23	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Account Growth							
Residential	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Non-Residential	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Water Sold (kgal)	268,311	269,193	270,080	270,972	271,867	272,768	273,673
Year-to-Year Change		0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Figure 3-1 shows the percent of total use in FY 2021-22 for the different customer classes.

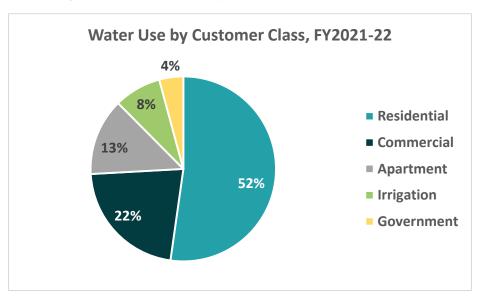


Figure 3-1: Water Use by Customer Class, FY 2021-22

3.5. Wastewater Flow Assumptions

Table 3-6 shows the projected wastewater flows. Flow for residential customers is based on the average winter water use. Flow for other customers equals water use.

	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Residential	69,194	69,540	69,888	70,237	70,588	70,941	71,296	71,652
Non-Residential	84,302	84,302	84,302	84,302	84,302	84,302	84,302	84,302
Total	153,496	153,842	154,190	154,539	154,891	155,244	155,598	155,955

Table 3-6: Projected Wastewater Flows, kgal

3.6. Water and Wastewater Financial Plan Assumptions

Inflationary assumptions shown in Table 3-7 were used to project O&M expenses beyond FY 2023-24. To ensure that future costs are reasonably projected, Raftelis worked with the City to generate assumptions regarding inflationary factors as shown in Table 3-7. The inflationary factors shown in Table 3-7 were then applied to the FY 2023-24 budgeted cost estimates to develop the FY 2024-25 and subsequent year estimates. Factors for FY 2029-30 through FY 2033-34 are the same as FY 2028-29. These inflationary assumptions are not applied to FY 2023-24, where Raftelis used the budgeted numbers provided by the City. Subregional represents the wastewater treatment costs incurred by the City for treating water at Santa Rosa Water's Laguna Wastewater Treatment Plant and is applied to wastewater treatment costs.

Table 3-7: Inflationary Assumptions

	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
General	3.0%	3.0%	3.0%	3.0%	3.0%
Salary	3.0%	3.0%	3.0%	3.0%	3.0%
Benefits	7.0%	7.0%	7.0%	5.0%	6.0%
Utilities	10.0%	10.0%	7.0%	7.0%	5.0%
Subregional	6.0%	6.0%	6.0%	6.0%	6.0%
Capital	6.0%	6.0%	6.0%	6.0%	6.0%

Interest earnings on cash reserves are projected, assuming a 3.5 percent annual interest rate.

4. Water Financial Plan

This section describes the assumptions used in projecting water enterprise operating and capital expenses as well as reserve coverage requirements for the ten-year study period (FY 2025 – FY 2034) plus the current fiscal year. These assumptions determine the overall revenue adjustments and the total amount of revenue required from rates. The revenue covers operating and maintenance (O&M), capital expenses, and reserve funding. Revenue adjustments represent the average rate increase for the City as a whole; rate changes for individual customers depend on the cost-of-service analysis described in the following chapter.

Financial plan assumptions were provided by and discussed in detail with City staff. The assumptions shown in Table 3-7 were incorporated into the financial plan. To develop the financial plan, Raftelis projected annual expenses and revenues, modeled reserve balances, added planned capital expenditures, and debt coverage. While the water operating fund currently has outstanding debt, according to City staff, the water fund does not have to meet debt coverage ratios associated with this debt. However, the City is planning to debt finance the Well 4 replacement project, which will likely have a minimum coverage requirement which requires the enterprise to generate a minimum amount of net revenues (gross revenues, less operating expenses) relative to the amount of annual debt service. This section of the report provides a discussion of projected revenue, O&M expenses, the CIP, reserve funding under existing rates, and the revenue adjustments needed to achieve fiscal sustainability.

4.1. Current Rate Revenue

The City's revenues consist of rate revenues, interest earnings on cash reserves, and other miscellaneous revenues. The rate revenue projections shown below assume that the current FY 2023-24 (Table 3-1) rates are effective throughout the study period and, therefore, represent estimated revenues in the absence of any rate increase. This status quo scenario provides a baseline from which Raftelis evaluates the need for revenue adjustments.

4.1.1. Calculated Water Rate Revenues

Raftelis projected water rate revenues from fixed meter charges and volume charges for FY 2023-24 through FY 2033-34 based on current FY 2023-24 water rates, the projected number of water meters, and projected annual water use.

The City collects a fixed bi-monthly service charge from its customers based on meter size, as shown in Table 4-1. Fixed charge revenues are calculated by meter size in each year as follows based on current FY 2023-24 water rates and projected number of meters (Table 3-3)².

Annual Fixed Charge Revenue for 5/8"x3/4" meter = [FY 2023-24 fixed bi-monthly rate 5/8"x3/4" meter] × [Number of 5/8"x3/4" connections] × [6 Bills per year]

Agenda Item Number: 4

² The example is shown for a 5/8"x3/4" meter. The same formula is shown for a 5/8"x3/4" meter. The same formula is shown for a 5/8"x3/4" meter. The same formula is shown for a 5/8"x3/4" meter. The same formula is shown for a 5/8"x3/4" meter.

Meter Size	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
5/8"x3/4"	\$760,686	\$764,124	\$767,579	\$771,051	\$774,541	\$778,048
3/4"	\$15,838	\$15,914	\$15,991	\$16,068	\$16,145	\$16,223
1"	\$102,894	\$103,166	\$103,439	\$103,714	\$103,990	\$104,268
1.5"	\$80,959	\$81,064	\$81,169	\$81,274	\$81,380	\$81,487
2"	\$91,602	\$91,682	\$91,762	\$91,842	\$91,923	\$92,004
3"	\$34,695	\$34,782	\$34,870	\$34,958	\$35,047	\$35,135
4"	\$14,891	\$14,941	\$14,991	\$15,041	\$15,092	\$15,142
Construction	\$2,160	\$2,160	\$2,160	\$2,160	\$2,160	\$2,160
Total	\$1,103,725	\$1,107,832	\$1,111,960	\$1,116,109	\$1,120,278	\$1,124,468

Table 4-1: Projected Fixed Charge Revenues Under Current Rates

Table 4-2 shows projected volume charge revenues under current rates over the rate-setting period. Volume charge revenues are calculated by customer class in each year as follows based on current FY 2023-24 water rates³ and projected water use (Table 3-5).

Annual Volume Charge Revenue = $[FY 2023-24 \text{ rate per unit (kgal)}] \times [Annual Water Use]$

FY2023-24 FY2024-25 FY2025-26 FY2026-27 FY2027-28 FY2027-29 **Customer Class** Residential \$637,278 \$640,464 \$643,666 \$646,885 \$650,119 \$653,370 **Apartment** \$164,327 \$165,148 \$165,974 \$166,804 \$167,638 \$168,476 Commercial \$264,653 \$264,653 \$264,653 \$264,653 \$264,653 \$264,653 Irrigation \$99,669 \$99,669 \$99,669 \$99,669 \$99,669 \$99,669 Government \$50,481 \$50,481 \$50,481 \$50,481 \$50,481 \$50,481 Total \$1,216,408 \$1,220,416 \$1,224,444 \$1,228,492 \$1,232,560 \$1,236,649

Table 4-2: Projected Volume Charge Revenue Under Current Rates

4.1.2. Other Revenues

Table 4-3 shows all other revenues over the rate-setting period. All FY 2023-24 other revenues are based on the City's FY 2023-24 budget. Additional revenues from FY 2024-25 through FY 2033-34 were projected by Raftelis. New service fees, water meter sales, and penalties are forecast to increase similarly to the overall increase in the number of meters. Insurance claim costs are presumed to increase at 1.5 percent per year. Interest revenue is estimated beginning in FY 2024-25 based on estimated beginning fund balances, revenues and expenses, and the assumed interest rate. Since the fund is in a deficit under the status quo, no interest revenue is earned. The other items remain flat.

³ The City's existing water rate structure consists of a single, uniform water use rate foggledge tend whimis of water consumed.

City Council Meeting Packet of: June 4, 2024

	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2027-29
Interest Income	\$35,000	\$0	\$0	\$0	\$0	\$0
Backflow Inspections	\$643	\$643	\$643	\$643	\$643	\$643
New Service Fee	\$36,460	\$36,614	\$36,769	\$36,925	\$37,081	\$37,238
Water Meter Sales	\$8,579	\$8,615	\$8,652	\$8,688	\$8,725	\$8,762
Penalties	\$15,013	\$15,076	\$15,140	\$15,204	\$15,269	\$15,333
Other Charges	\$0	\$0	\$0	\$0	\$0	\$0
Insurance Claims	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous Income	\$2,145	\$2,145	\$2,145	\$2,145	\$2,145	\$2,145
Total	\$97,840	\$63,094	\$63,349	\$63,605	\$63,863	\$64,122

Table 4-3: Projected Other Water Enterprise Revenues

4.2. Operations and Maintenance Expenses

The City's expenses include operations and maintenance expenses, capital expenses, and transfers to the general fund to pay a share of debt service payments for shared facilities. This section discusses the details of each of these expenses.

4.2.1. Total Operations and Maintenance Budget

The City provided Raftelis with its water enterprise budget and projected general and administration costs for FY 2023-24. The City also provided the general and administration costs for FY 2024-25 based on a revised capital allocation plan. Sebastopol City Council had previously directed staff to complete the City's General and Administrative cost allocation study (also known as G&A Allocation Study) to properly distribute the costs of overhead among City functions. The G&A Allocation Study was accepted by Council at their February 20, 2024 meeting and results in a decrease of allocation to the water and wastewater enterprise funds effective July 1, 2024. To project the City's O&M expenses in future years, Raftelis used the escalation percentages shown in Table 3-7 to project future expenses. A summary of the budgeted and projected O&M expenses over the rate-setting period is shown in Table 4-4. Approximately 68 percent of general and admin (G&A) costs are for finance, engineering, and public works.

FY2023-24 FY2024-25 FY2025-26 FY2026-27 FY2027-28 FY2028-29 Line Item Salaries & Benefits \$498,327 \$564,063 \$586,907 \$648,049 \$671,283 \$792,660 Materials, Supplies & Equipment \$163,722 \$168,633 \$173,692 \$178,903 \$184,270 \$189,798 Replacement Program \$15,226 \$15,734 \$16,260 \$16,803 \$17,364 \$17,945 Utilities \$272,541 \$300,256 \$400,745 \$330,828 \$354,825 \$380,579 Capital Outlay \$42,896 \$44,183 \$45,509 \$46,874 \$41,647 \$48,280 Other \$365,441 \$258,262 \$266,032 \$274,037 \$282,282 \$290,776 \$1,363,097 \$852,863 \$823,801 \$882,031 \$919,522 \$1,011,058 **G&A** Allocation Total \$2,720,000 \$2,202,707 \$2,241,703 \$2,400,156 \$2,502,175 \$2,751,261

Table 4-4: Summary of Projected Water Operations and Maintenance Expenses

4.2.2. Capital Improvement Plan

Table 4-5 shows the City's plan for water capital improvements over the rate-setting period. The CIP is inflated by 6 percent per year to reflect projected inflationary increases from an uninflated base of FY 2022-23 except for the current year, which is in FY 2023-24 dollars.

Agenda Item Number: 4

Table 4-5: Projected Capital Improvement Projects

Project	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Parquet Street Water Line Replacement	\$530,000	\$0	\$0	\$0	\$0	\$0
Well 4 Replacement	\$0	\$0	\$400,000	\$2,600,000	\$0	\$0
Water System Master Plan Update	\$0	\$120,000	\$0	\$0	\$0	\$0
Florence: Water Line Replace South	\$0	\$0	\$0	\$26,000	\$181,500	\$0
Florence: Water Line Replace North	\$0	\$0	\$0	\$56,000	\$402,000	\$0
Pleasant Hill Rd. Water Line: Mitchell Ct. to Lynch Rd.	\$0	\$0	\$0	\$0	\$300,000	\$0
Replacement program-set aside	\$0	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000
Total Uninflated	\$530,000	\$720,000	\$1,000,000	\$3,282,000	\$1,483,500	\$600,000
Total Inflated	\$530,000	\$808,992	\$1,191,016	\$4,143,449	\$1,985,258	\$851,111

4.2.3. Existing and Proposed Debt Service

The water fund has two outstanding debts and pays a portion of general fund debt related to shared facilities, as shown in Table 4-6. According to City staff, the water fund does not have any debt service coverage requirements for these loans.

Table 4-6: Existing Debt Service

Debt	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28
CREBS	\$62,048	\$0	\$0	\$0	\$0
Well #7 Loan	\$83,955	\$83,954	\$83,954	\$83,954	\$83,955
Infrastructure Lease*	\$66,109	\$66,109	\$66,109	\$0	\$0
TELPA*	\$168,592	\$168,592	\$168,592	\$168,592	\$168,592
Total	\$380,704	\$318,656	\$318,656	\$252,547	\$252,547

^{*} Water Portion

The City plans to debt fund the Well 4 replacement project. Based on discussions with City staff, Raftelis has presumed revenue bond-like terms of 5 percent interest, a 30-year term, and a 1.0 percent issuance cost. The modeled debt service is shown in Table 4-7. As the project gets closer to construction, the City should work with its financial advisor to determine the best financing arrangement and timing.

Table 4-7: Proposed Debt Service

Debt	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Well 4 Replacement	\$0	\$0	\$0	\$246,964	\$246,964	\$246.964

4.3. Reserve Targets

The City maintains a water operating reserve fund.

Operating Reserve – The Operating Reserve is used primarily to meet ongoing cash flow requirements. The City's minimum reserve target is set at 25 percent (three months) of water operating and maintenance expenses plus annual debt service.

Capital Reserve – The City does not have a capital reserve.

Recommended Operating Reserve – Given the City bills bi-monthly, Raftelis recommends the City eventually move to a 120-day operating reserve once the fund has become self-sufficient by meeting annual operating, debt service, and cash-capital needs as well as the current operating reserve target. We recommend that the City evaluate this policy in the intervening years or as part of the next rate cycle.

Recommended Capital Reserve -- A common reserve target is 100 percent – 150 percent of the annual average 5-year capital improvement program. The City may also want to consider an emergency reserve fund. Given the water fund's tenuous position, Raftelis recommends implementing a capital reserve and possibly an emergency reserve target once the fund has become self-sufficient by meeting annual operating, debt service, cash-capital needs, and the current operating reserve target. We recommend that the City evaluate this policy in the intervening years or as part of the next rate cycle, once a Water System Master Plan is completed.

4.4. Status Quo Financial Plan

To demonstrate the importance of increasing revenue to keep up with costs, Raftelis modeled a 'status quo' version of the financial plan. This financial plan scenario examines reserve balances, costs, and revenues. It also assumes that there are no revenue adjustments during the study period to establish a baseline for other model scenarios. Table 4-8 shows a summary cashflow for the water enterprise over the rate-setting period, assuming no rate increases. Without increases existing revenues only recover O&M costs in some years; and even in those years revenues are insufficient to recover debt service and cash funded capital. The water fund balance turns increasingly negative in FY 2024-25 and beyond.

Line Item FY2023-24 FY2024-25 FY2025-26 FY2026-27 FY2027-28 FY2028-29 \$1,225,855 \$13,123 -\$923,731 **Beginning Balance** -\$2,273,193 -\$6,658,980 -\$8,980,099 Revenues Rate-Based \$2,317,972 \$2,328,248 \$2,336,404 \$2,344,600 \$2,352,838 \$2,361,117 \$100,000 \$65,509 \$65,765 \$66,023 \$66,282 Other \$65,254 **Total Revenue** \$2,417,972 \$2,393,502 \$2,401,913 \$2,410,366 \$2,427,399 \$2,418,861 **0&M** \$2,720,000 \$2,202,707 \$2,241,703 \$2,400,156 \$2,502,175 \$2,751,261 Net Revenue -\$302,028 \$190,794 \$160,209 \$10,209 -\$83,314 -\$323,863 Capital-Related Expenses **Debt Service** \$380,704 \$318,656 \$318,656 \$252,547 \$252,547 \$252,547 Cash Capital \$530,000 \$808,992 \$1,191,016 \$4,143,449 \$1,985,258 \$851,111 **Total Capital Expenses** \$910,704 \$1,127,648 \$1,509,672 \$4,395,996 \$2,237,805 \$1,103,659 **Annual Surplus/Deficit** -\$1,212,732 -\$936,854 -\$1,349,463 -\$4,385,787 -\$2,321,119 -\$1,427,521 \$13,123 -\$923,731 -\$2,273,193 -\$10,407,620 **Ending Balance** -\$6,658,980 -\$8,980,099 **Reserve Target** \$764,557 \$621,706 \$631,321 \$654,091 \$679,247 \$740,665

Table 4-8: Status Quo Summary Water Cashflow

Figure 4-1 shows the projected ending balance versus the target balance. This status quo model shows the need for rate revenue increases since negative ending balances start in FY 2024-25.

Reserve Balance \$2.0 -\$0.92 \$0.0 -\$2.0 -\$4.0 \$6.66 -\$6.0 \$8.98 -\$8.0 \$10.41 -\$10.0 -\$12.0 FY 2024-25 FY 2025-26 FY 2026-27 FY 2027-28 FY 2028-29 Alert Balance Ending Balance Minimum Balance

Figure 4-1: Reserve Balances Under the Status Quo

4.5. Proposed Financial Plan and Revenue Adjustments

The proposed revenue adjustments help ensure adequate revenue to fund operating expenses, capital expenditures, and meet reserve minimums. The Financial Plan modeling assumes the first revenue adjustment occurs on July 1, 2024 and on July 1 in subsequent years. The proposed revenue adjustments will enable the City to meet operating costs and to execute the CIP shown in Table 4-5, and achieve current reserve minimums in FY 2025-26. Table 4-9 shows the proposed revenue adjustments for the rate-setting period.

Revenue
Fiscal Year Adjustment

FY 2024-25 50.0%

FY 2025-26 16.0%

FY 2026-27 1.5%

FY 2027-28 1.5%

FY 2028-29 1.5%

Table 4-9: Proposed Revenue Adjustments

Table 4-10 shows the cash flow detail over the rate-setting period for the water operating fund assuming the revenue adjustments shown above. Line 1 shows the projected rate-revenue under existing rates. Line 2 shows the forecast adjusted revenue from the proposed revenue adjustments. Line 5 shows total water fund revenue including non-operating revenues and interest. Line 8 shows total O&M expenses. Line 9 shows net revenues, or revenues less expenses, which is the result of subtracting Line 8 from Line 5. Line 12 shows the projected debt service payments. Line 13 shows the cash-funded capital. Line 14 shows the annual surplus or deficit, which is Line 9 less Line 12 less Line 13. Line 15 shows the enterprise's operating balance at the start of the fiscal year. The ending fund balance in Line 16 is the beginning balance (Line 14) plus the annual surplus or deficit (Line 14). Line 17 shows the minimum operating reserve level.

Agenda Item Number: 4

Table 4-10: Water Operating Cashflow

No.	Line Item	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
1	Revenue Under Existing Rates	\$2,317,972	\$2,328,248	\$2,336,404	\$2,344,600	\$2,352,838	\$2,361,117
2	Additional Rate-Revenue	\$0	\$1,164,124	\$1,728,939	\$1,796,198	\$1,864,840	\$1,934,889
	Other Revenue						
3	Interest	\$35,000	\$4,516	\$15,484	\$39,222	\$44,521	\$38,219
4	Miscellaneous	\$65,000	\$65,254	\$65,509	\$65,765	\$66,023	\$66,282
5	Total Revenue	\$2,417,972	\$3,562,141	\$4,146,335	\$4,245,786	\$4,328,221	\$4,400,507
	O&M Expenses						
6	Operating Expenditure	\$1,356,903	\$1,349,844	\$1,417,902	\$1,518,125	\$1,582,653	\$1,740,203
7	G&A Allocation	\$1,363,097	\$852,863	\$823,801	\$882,031	\$919,522	\$1,011,058
8	Total O&M Expenses	\$2,720,000	\$2,202,707	\$2,241,703	\$2,400,156	\$2,502,175	\$2,751,261
9	Net Revenue	-\$302,028	\$1,359,434	\$1,904,632	\$1,845,630	\$1,826,046	\$1,649,246
	Debt Service						
10	Existing	\$380,704	\$318,656	\$318,656	\$252,547	\$252,547	\$252,547
11	Proposed	\$0	\$0	\$0	\$246,964	\$246,964	\$246,964
12	Total Debt Service	\$380,704	\$318,656	\$318,656	\$499,510	\$499,511	\$499,511
13	Cash Funded Capital	\$530,000	\$808,992	\$1,191,016	\$384,603	\$1,985,258	\$851,111
14	Annual Surplus/Deficit	-\$1,212,732	\$231,786	\$394,960	\$961,516	-\$658,722	\$298,623
15	Beginning Balance	\$1,225,855	\$13,123	\$244,909	\$639,869	\$1,601,385	\$942,663
16	Ending Balance	\$13,123	\$244,909	\$639,869	\$1,601,385	\$942,663	\$1,241,286
17	Minimum Reserve Level	\$764,557	\$621,706	\$631,321	\$714,986	\$740,142	\$801,560

Figure 4-2 through Figure 4-4 display the FY 2024-25 through FY 2028-29 Financial Plan in graphical form. Figure 4-2 illustrates the Operating Financial Plan – it compares existing (blue line) and proposed revenues (black line) with projected expenses (stacked columns). The yellow bars above the axis show the net cash used to build up the reserves and the bars below the axis show the withdrawals from reserves to fund costs. Projected revenue from existing rates, if continued unchanged, would not meet future projected total expenses and illustrates the need for revenue adjustments necessary to maintain operations, accomplish the desired CIP, and to eventually meet reserve minimums.

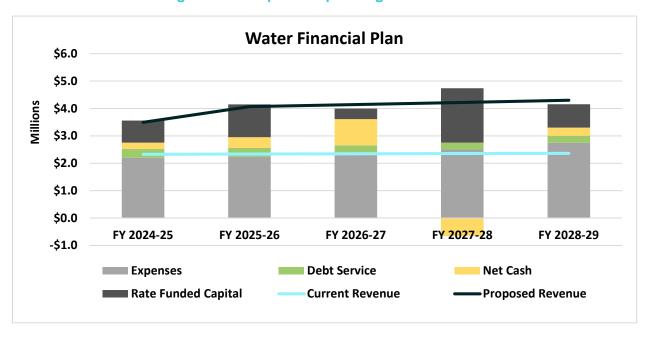


Figure 4-2: Proposed Operating Financial Plan

Figure 4-3 summarizes the projected CIP and its funding sources: cash funded (rate-based revenue) and debt financing.

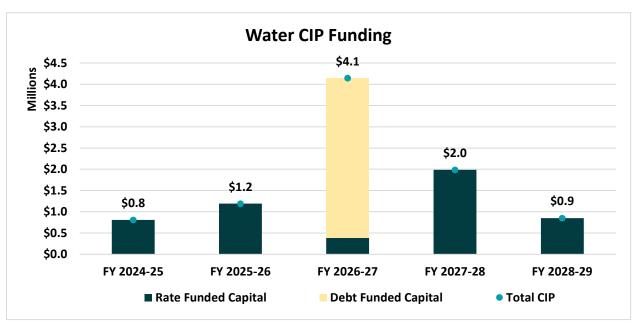


Figure 4-3: Projected Capital Plan and Funding Sources

Figure 4-4 displays the projected total yearly ending balance (teal bars). The black line is the minimum fund balance, which is 25 percent of annual operating and maintenance and debt service costs. As shown, the fund is projected to return to the minimum balance in FY 2025-26. While the outyears show the balance remaining above the minimum reserves, Raftelis recommends the City consider increasing the minimum reserves as discussed in Section 4.3 once the fund has become self-sufficient by meeting annual operating, debt service, and cash-capital needs as well as the current operating reserve minimum.

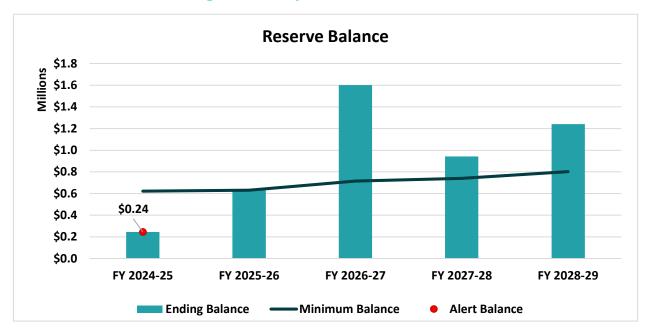


Figure 4-4: Projected Reserve Balance

5. Water Cost-of-Service Analysis

A cost-of-service analysis distributes a utility's revenue requirement (costs) to each customer class. This section explains the details of the cost-of-service analysis conducted for the City for providing water services to customers.

After determining a utility's revenue requirement, the next step in a cost-of-service analysis is to functionalize its O&M costs to the following functions:

Wells – cost of supplying groundwater Storage – cost associated with storing treated water Treatment – cost of treating water to drinking water standards Transmission and Distribution (T&D) – cost associated with pipes, pumps, mains, etc Meters- costs associated with meter maintenance and replacement Customer Service – costs associated with meter reading, billing, and customer service General and Administration (G&A) – general and administrative costs incurred by the City Fire protection – costs associated with public fire hydrants

The functionalization of costs allows us to better allocate the costs to the rate components: monthly service charge and volumetric charge.

5.1. Revenue Requirement Determination

Table 5-1 shows the net revenue requirement from rates for FY 2024, the test year. The total revenue requirement shown in Line 6 is equal to operating expenses (Table 4-4), capital expenses (Table 4-5), and debt service (Table 4-6). Other operating revenues, totaled in Line 9, comprise miscellaneous revenues and interest income (Table 4-3), which reduce the total revenue required from rates. The adjustment for cash (Line 10) is subtracted to account for the withdrawal from reserves to help cover revenue requirements. The revenue required from rates is equal to the total revenue requirements less other operating revenues and adjustments (Line 12).

Table 5-1: Revenue Requirement Determination, FY 2024

No.	Line Item	Operating	Capital	Total
	Expenses			
1	Operating Expenditure	\$1,356,903		\$1,356,903
2	G&A Allocation	\$1,363,097		\$1,363,097
3	Existing Debt Service		\$380,704	\$380,704
4	Proposed Debt Service		\$0	\$0
5	Rate Funded Capital Projects		\$530,000	\$530,000
6	Subtotal	\$2,720,000	\$910,704	\$3,630,704
	Less: Offsets			
7	Interest Revenue		\$35,000	\$35,000
8	Misc. Revenue	\$65,000		\$65,000
9	Subtotal	\$65,000	\$35,000	\$100,000
	Less: Adjustments			
10	Adjustment for Cash Balance	\$1,212,732		\$1,212,732
11	Subtotal	\$1,212,732	\$0	\$1,212,732
12	Net Revenue Requirement from Rates	\$1,442,268	\$875,704	\$2,317,972

5.2. Functionalization of Net Revenue Requirement

Functionalizing expenses allows Raftelis to follow the principles of rate setting theory in which the end goal is to allocate the City's revenue requirements to cost causation components. Table 5-2 shows the resulting functionalization of the City's O&M expenses (Line 6, Table 5-1) and O&M offsets (Lines 9 and 11, Table 5-1). Raftelis worked with City staff to functionalize the test year O&M line items to the functions listed at the beginning of Section 5 (see Appendix A). O&M offsets are allocated in the same proportion as the total O&M revenue requirements excluding supply costs.

Table 5-2: Functionalization of Net O&M

Function	O&M	O&M Offsets	Net O&M
Wells	\$506,864	-\$238,101	\$268,762
Storage	\$92,779	-\$43,583	\$49,195
Meters	\$23,621	-\$11,096	\$12,525
Customer Service	\$14,367	-\$6,749	\$7,618
Public Fire	\$110,100	-\$51,720	\$58,380
T&D	\$351,354	-\$165,050	\$186,304
Treatment	\$307,748	-\$144,566	\$163,182
General & Admin	\$1,313,168	-\$616,867	\$696,302
Total	\$2,720,000	-\$1,277,732	\$1,442,268

Table 5-3 shows the functionalization of net capital costs (Line 12, Table 5-1). The costs are allocated in proportion to the City's water assets.

Function	Asset	Capital-Related
Wells	\$598,483	\$150,525
Storage	\$368,517	\$92,686
Meters	\$0	\$0
Customer Service	\$7,684	\$1,933
Public Fire	\$0	\$0
T&D	\$970,131	\$243,998
Treatment	\$1,320,938	\$332,230
General & Admin	\$216,028	\$54,333
Total	\$3,481,782	\$875,704

Table 5-3: Functionalization of Net Capital

5.3. Allocation of Functionalized Net Revenue Requirements to Cost Components

After functionalizing the net revenue requirements, the next step is to allocate the functionalized net revenue requirements to the following cost causation components.

- Base fixed costs associated with providing service under average demand conditions
- Peaking (Max Day and Peak Hour) costs associated with meeting demand in excess of average use
- Equivalent Meters costs associated with meter maintenance and replacement
- Customer Service the costs associated with meter reading, billing, and customer service
- Public Fire costs associated with system fireflow and public fire hydrants
- General and Administration (G&A) general and administrative costs incurred by the City

5.3.1. Proposed Water Rate Structure Modifications

Raftelis worked closely with City staff to evaluate potential changes to the existing water rate structure. All proposed water rates presented in subsequent sections incorporate the following recommended revisions to the existing water rate structure.

Single Family Residential Tiers: Raftelis proposes that the City introduce a three-tiered rate structure for customers identified as Residential in the billing database. Tier 1 will be defined as the first 7 units (kgal) of water in a two-month period (i.e., bi-monthly), which represents use up to the lowest average water use per billing period during the winter months. Winter use approximates essential indoor water use—for cooking, drinking, and sanitation, and not outdoor irrigation. Over an entire year, 55 percent of residential billed usage falls between 0 - 7 kgal. Tier 2 will include use greater than Tier 1, up to 16 kgal per billing period, which is based on the highest average water use per billing period during the summer months. This tier is designed to approximate water used for outdoor irrigation by Residential users in the City's service area. Approximately 25 percent of annual residential usage falls between 8 – 16 kgal. Tier 3 will include all use greater than Tier 2, which is approximately 20 percent residential usage. Single Family Residential is a homogenous customer class, which has similar indoor needs for health and sanitation, similar outdoor irrigation needs, and similar seasonality in these demand patterns. It is therefore appropriate to tier this class of like customers. The three-tier structure will provide lower cost water in the first tier and higher costs in the second and third tiers. This type of structure promotes affordability of service for lower to average use residential customers while including a conservation price signal between the tiers. It also ensures fairness in rates between those

Agenda Item Number: 4

customers that impose higher peak demands on the water system and those who do not. The proposed monthly allotments for residential customers are shown below in Table 5-4.

All Other Classes: Raftelis recommends that all other customer classes be billed a uniform rate by class. Based on the billing data, two distinct classes are identified: Commercial (which also includes Apartments, Non-Profit, and Government as identified in the billing data) and Irrigation. Nonresidential classes have highly varying demand patterns based on the type of business or seasonal transient effects. For this reason a uniform rate by class is an industry standard and proposed in this study.

Current Bi-Monthly Proposed Bi-Monthly Description Allotment Allotment Single Family Residential Tier 1 N/A Uniform 0 - 7 kgal Tier 2 N/A Uniform 8 - 16 kgal Tier 3 N/A Uniform > 16 kgal All Other Classes Single Uniform Rate Uniform by Class

Table 5-4: Proposed Changes to the Water Rate Structure

Table 5-5 shows estimated water use by class and tier under the proposed structure. All projections are based on detailed account-level analysis of FY 2021-22 actual water use (the most recent complete year of billing data available at the time this study commenced). Raftelis projects that approximately 52 percent of all water use is by Single Family Residential customers, 39 percent by Commercial classified users, and the remaining 9 percent of use by the Irrigation class (dedicated landscape irrigation connections).

Description	Max Bi-Month (kgal)
Residential	
Tier 1: 0 - 7 kgal	76,890
Tier 2: 8 - 16 kgal	35,935
Tier 3: > 16 kgal	28,206
Other Classes	
Commercial	106,106
Irrigation	22,057
Total	269,193

Table 5-5: Projected Water Use by Class and Tier, Test Year

5.3.2. Peaking Factors

Peaking costs are computed for a maximum day and peak hour using best available data. The maximum day (max day) demand is the maximum amount of water used in a single day in a year. The peak hour demand is the maximum amount of water used in a single hour on the maximum day. Different facilities, such as storage, distribution, and treatment facilities (and the O&M costs associated with those facilities), are designed to meet peak hour and max day demands, respectively. Therefore, extra capacity⁴ costs include the

Agenda Item Number: 4

⁴ The terms extra capacity, peaking and capacity costs are used interms extra capacity, peaking and capacity costs are used in the terms extra capacity, peaking and capacity costs are used in the terms extra capacity, peaking and capacity costs are used in the terms extra capacity, peaking and capacity costs are used in the terms extra capacity, peaking and capacity costs are used in the terms extra capacity.

O&M and capital costs associated with meeting peak customer demand. This method is consistent with the AWWA Manual M1 and is widely used in the water industry to perform cost-of-service analyses.

Table 5-6 shows the system-wide peaking factors used to derive the cost component allocation bases for base and peaking costs. Base costs represent average daily demand during the year, which is normalized to a factor of 1.00 (Column B, Line 1). The max day and peak hour factors come from the prior rate study. The allocation bases (Columns C, D, and E) are calculated using the equations outlined below the table.

Table 5-6: Water System Peaking Factors

No.	Cost Component (A)	Demand Factor (B)	Base (C)	Max Day (D)	Max Hour (E)	Total (F)
1	Base	1.00	100%			100%
2	Max Day	1.21	83%	17%		100%
3	Max Hour	2.79	36%	8%	57%	100%

The max day allocations are calculated as follows:

- Base Delivery: B1 / B2 x 100% = C2
- Max Day: 100% C2 = D2

The max hour allocations are calculated as follows:

- Base Delivery: $B1 / B3 \times 100\% = C3$
- Max Day: $(B2 B1) / B3 \times 100\% = D3$
- Max Hour: 100% C3 D3 = E3

The max day and max hour peaking factors for each customer class and tier are shown in Table 5-7. The peaking calculations attribute peaking costs to specific customer classes and tiers based on actual water use patterns. Raftelis estimated Max Day (Column C) and Max Hour (Column D) factors based on actual FY 2021-22 water use⁵. The Max Day factor is the Max Bi-Monthly kgal (Column A) for a tier or class divided by the Average Bi-Monthly kgal (Column B) for that same tier or class. This ratio becomes the proxy for the max day factor. The Max Hour factor is the max day ratio (Column C) multiplied proportionally by the ratio of the system max hour to max day (Table 5-6).

⁵ As mentioned previously, FY 2021-22 represents the most recent complete fiscal yeare pelantary relably units start of the study. City Council Meeting Packet of: June 4, 2024

Table 5-7: Max Day and Max Hour Capacity Factors by Class

Customer Class	Max Bi-Month (kgal)	Average Bi-Month (kgal)	Max Day	Max Hour
	(A)	(B)	(C)	(D)
Single Family				
Tier 1: 0 - 7 kgal	7,211	6,321	1.14	2.63
Tier 2: 8 - 16 kgal	5,144	3,114	1.65	3.81
Tier 3: > 16 kgal	5,637	2,200	2.56	5.91
Commercial (1)	11,706	8,811	1.33	3.07
Irrigation	5,429	1,838	2.95	6.80

⁽¹⁾ Includes Apartment, Commercial, Government, and Non-Profit as identified in the billing database.

5.3.3. Operating and Capital Allocation

Table 5-8 shows the system functions, the rationale for allocating each function to the various cost components, and the percentage allocation to each component. Most functions have a one-to-one relationship with a cost component. All others are allocated based on either the max day or max hour basis.

Table 5-8: Allocation of Functions to Cost Components

							Public Fire	General &	
Function	Allocation Basis	Base	Max Day	Max Hour	Meter	Customer	Protection	Admin	Total
Wells	Max Day	83%	17%						100%
Storage	Max Day	83%	17%						100%
Meters	Meters				100%				100%
Customer Service	Customer Service					100%			100%
Public Fire	Public Fire						100%		100%
T&D	Max Hour	36%	8%	57%					100%
Treatment	Max Day	83%	17%	0%					100%
General & Admin	General & Admin							100%	100%

Table 5-9 shows the detailed net operating costs by cost component (Table 5-2) allocated to the cost components using the allocations shown in Table 5-8. General and administrative (G&A) costs are reallocated like total O&M. Adding the subtotal (Line 9) and reallocating G&A (Line 11) results in the Adjusted Net O&M.

Table 5-9: Allocation of Net Operation & Maintenance to Cost Components

								Public Fire	General &
No.	Function	Net O&M	Base	Max Day	Max Hour	Meter	Customer	Protection	Admin
1	Wells	\$268,762	\$222,118	\$46,645	\$0	\$0	\$0	\$0	\$0
2	Storage	\$49,195	\$40,657	\$8,538	\$0	\$0	\$0	\$0	\$0
3	Meters	\$12,525	\$0	\$0	\$0	\$12,525	\$0	\$0	\$0
4	Customer Service	\$7,618	\$0	\$0	\$0	\$0	\$7,618	\$0	\$0
5	Public Fire	\$58,380	\$0	\$0	\$0	\$0	\$0	\$58,380	\$0
6	T&D	\$186,304	\$66,776	\$14,023	\$105,505	\$0	\$0	\$0	\$0
7	Treatment	\$163,182	\$134,861	\$28,321	\$0	\$0	\$0	\$0	\$0
8	G&A	\$696,302	\$0	\$0	\$0	\$0	\$0	\$0	\$696,302
9	Net O&M	\$1,442,268	\$464,412	\$97,526	\$105,505	\$12,525	\$7,618	\$58,380	\$696,302
10	% Allocation w/o 0	G&A	62%	13%	14%	2%	1%	8%	
11	Reallocate G&A		\$433,493	\$91,033	\$98,481	\$11,691	\$7,111	\$54,493	-\$696,302
12	Adjusted Net O&N	И	\$897,904	\$188,560	\$203,987	\$24,216	\$14,729	\$112,873	\$0

Table 5-10 shows the allocation of capital-related revenue requirement (Table 5-2, Capital-Related column) to the capital cost component.

Table 5-10: Allocation of Capital-Related Expenses to Cost Components

		Net Capital-						Public Fire	General &
No.	Function	Related	Base	Max Day	Max Hour	Meter	Customer	Protection	Admin
1	Wells	\$150,525	\$124,401	\$26,124	\$0	\$0	\$0	\$0	\$0
2	Storage	\$92,686	\$76,600	\$16,086	\$0	\$0	\$0	\$0	\$0
3	Meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Customer Service	\$1,933	\$0	\$0	\$0	\$0	\$1,933	\$0	\$0
5	Public Fire	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	T&D	\$243,998	\$87,454	\$18,365	\$138,178	\$0	\$0	\$0	\$0
7	Treatment	\$332,230	\$274,570	\$57,660	\$0	\$0	\$0	\$0	\$0
8	G&A	\$54,333	\$0	\$0	\$0	\$0	\$0	\$0	\$54,333
9	Net Capital	\$875,704	\$563,025	\$118,235	\$138,178	\$0	\$1,933	\$0	\$54,333
10	% Allocation w/o	G&A	69%	14%	17%	0%	0%	0%	
11	Reallocate G&A		\$37,244	\$7,821	\$9,140	\$0	\$128	\$0	-\$54,333
12	Adjusted Net Capi	ital-Related	\$600,269	\$126,056	\$147,318	\$0	\$2,060	\$0	\$0

5.4. Derivation of Units of Service

5.4.1. Equivalent Meters

Equivalent meters (EMs) are used to allocate meter-related costs. Larger meters can impose greater demands on the system and are more expensive to install, maintain, and replace than smaller meters. This study uses a hydraulic capacity (capacity) ratio to calculate equivalent meters. The capacity ratio is based on meter hydraulic capacity and is calculated to represent the potential demand on the water system compared to the base meter size. A ratio of hydraulic capacity is calculated by dividing the capacity of a meter at a given size by the base meter capacity using the maximum safe operating flow rates in gallons per minute (gpm). The base meter used in the study is the 3/4" meter.

Table 5-11 shows the meter capacity and capacity ratio for each meter size. The capacity in gpm is based on the safe operating flow rates provided in the AWWA Manual M1. The capacity ratios (Column Pare: 4 City Council Meeting Packet of: June 4, 2024

calculated by dividing the capacity in gpm (Column B) for each meter size (Column A) by the capacity in gpm for the 3/4" meter (Column B, Line 2). Meter counts (Column D) at each size are multiplied by the capacity ratio (Column C) to arrive at the total number of equivalent meters, shown in Column E. For example, there are 58, 2" meters in the water system; and those 58, 2" meters are equivalent to the system demands of 310, 3/4" meters.

No.	Meter Size (inches) (A)	AWWA Operating Capacity (B)	Capacity Ratio		Total Equivalent Meters (E)
1	5/8"x3/4"	30	1.00	2,570	2,570
2	3/4"	30	1.00	54	54
3	1"	50	1.67	208	347
4	1.5"	100	3.33	82	274
5	2"	160	5.33	58	310
6	3"	350	11.67	10	117
7	4"	630	21.00	3	63
8	Total			2,985	3,735

Table 5-11: Equivalent Meters

5.4.2. Unit Costs of Service

Raftelis calculated unit costs for each cost component by assessing the total water demand, peak water demands (max day and peak hour), meter count, or equivalent meters. Table 5-12 shows the units of service for the water system. The Max Day Capacity Factor (Column C) and the Peak Hour Capacity Factor (Column F) are the demand factors shown in Table 5-7, Column B. Max Day Total Capacity (Column D) is the Average Day Use (Column B) multiplied by the Max Day Capacity Factor (Column C). Max Day Extra Capacity (Column E) is the difference between the Max Day Total Capacity (Column D) and the Average Day (Column B). Peak Hour Total Capacity (Column G) is the Average Day (Column B) multiplied by the Peak Hour Capacity Factor (Column F). Peak Hour Extra Capacity (Column H) is the difference between the Peak Hour Total Capacity (Column G) and the Max Day Total Capacity (Column D).

					Max Day Requirements		Peak H	our Require	ements			
No.	Customer Class	Tier Width (kgal)	Annual Use (kgal) (A)	Average Day (kgal) (B)	Capacity Factor (C)	Total Capacity (D)	Extra Capacity (E)	Capacity Factor (F)	Total Capacity (G)	Extra Capacity (H)	Equivalent Meters (I)	Number of Meters (J)
1	Residential										2,350	2,303
2	Tier 1	7.0	76,890	211	1.14	240	30	2.63	554	314		
3	Tier 2	9.0	35,935	98	1.65	163	64	3.81	375	212		
4	Tier 3	>16	28,206	77	2.56	198	121	5.91	457	259		
5	Commercial(1)		106,106	291	1.33	387	96	3.07	891	505	1,141	666
6	Irrigation		22,057	60	2.95	178	118	6.80	411	233	244	16
7	Total		269,193	738		1,166	428		2,688	1,522	3,735	2,985
		_										

Table 5-12: Units of Service

(1) Includes Apartment, Commercial, Government, and Non-Profit as identified in the billing database.

Table 5-13 shows the total adjusted cost of service and resulting unit costs of service. The total shown in Line 3 and again in Line 6 match the total from the net revenue requirements, Table 5-1. Line 5 shows public fire allocated to meters since public fire is a fixed cost of the system. Part of the peaking costs and base costs are reallocated to meters as these costs are largely fixed and related to the capacity of the larger. Larger City Council Meeting Packet of: June 4, 2024

meters have greater potential to peak on the water system and have higher daily demands, on average. Reallocating these shares of base and peak components to the meter component ensures a higher degree of revenue stability, allowing the percentage of rate-based revenue from fixed charges to be maintained at historic levels. The portion of the base, max day, and max hour costs allocated to the meter component are shown in Line 6. Line 7 shows the adjusted cost of service. Line 11 is the adjusted cost of service (Line 7) for each component divided by that component's units of service (Line 9).

Table 5-13: Total Adjusted Cost-of-Service and Units of Service

							Public Fire	General &	
No.	Line Item	Base	Max Day	Max Hour	Meter	Customer	Protection	Admin	Total
1	Net Operating Expenses	\$897,904	\$188,560	\$203,987	\$24,216	\$14,729	\$112,873	\$0	\$1,442,268
2	Net Capital Expenses	\$600,269	\$126,056	\$147,318	\$0	\$2,060	\$0	\$0	\$875,704
3	Subtotal Cost of Service	\$1,498,173	\$314,616	\$351,305	\$24,216	\$16,790	\$112,873	\$0	\$2,317,972
4	Allocation of Public Fire to Meter				\$112,873		-\$112,873		
5	Allocate Peak and Base Cost to Meter Capacity	-\$749,087	-\$94,385	-\$105,392	\$948,863				
6	Total Cost of Service	\$749,087	\$220,231	\$245,914	\$1,085,951	\$16,790	\$0	\$0	\$2,317,972
7	Units	269,193 kgal	428 kgal/day	1,522 kgal/day	3,735 Eq. Mtr. / yr	2,985 No. Mtrs/yr			
8	Unit Cost	\$2.78	\$514.20	\$161.54	\$290.75	\$5.62			

6. Proposed Water Rates and Charges

The City's water service fees are comprised of two parts: (1) a bi-monthly service charge and (2) a volumetric charge. The bi-monthly service charge is a fixed charge based on the size of the meter serving a property. The bi-monthly service charge has been calculated to recover the City's fixed costs, such as the costs of billing and collection, customer service, meter reading, meter maintenance, and a share of capacity-related costs. The volumetric charge has been calculated to recover the balance of remaining costs.

6.1. Proposed Bi-Monthly Service Charge

From the calculations in Table 5-13, the proposed fixed bi-monthly service charges are determined for each meter size. Table 6-1 shows the derivation of the bi-monthly service charge. The Billing Charge component (Column B) is equal to the unit rate in Line 8, Customer column of Table 5-13 divided by 6 billing periods per year. As the cost of issuing a bill does not vary by meter size, it remains constant for all meter sizes. The Meter Charge component (Column C) is the Meters unit rate shown in Line 8, Table 5-13, divided by 6 because there are six bi-monthly billing periods in a year. For meters larger than 3/4", this unit rate is multiplied by the meter ratio (Table 5-11, Column C) to derive the meter capacity cost associated with those larger meter sizes. The total test year bi-monthly service charge (Column D) is the sum of Columns B and C.

No.	Meter Size (A)	Billing Charge (B)	Meter Charge (C)	Total Bi- Monthly (D)
1	5/8"x3/4"	\$0.94	\$48.46	\$49.40
2	3/4"	\$0.94	\$48.46	\$49.40
3	1"	\$0.94	\$80.76	\$81.71
4	1.5"	\$0.94	\$161.53	\$162.47
5	2"	\$0.94	\$258.45	\$259.39
6	3"	\$0.94	\$565.35	\$566.29
7	4"	\$0.94	\$1,017.63	\$1,018.58

Table 6-1: Bi-Monthly Service Charge Derivation, Test Year

The test year bi-monthly charges are then multiplied by the revenue adjustments shown in Table 4-9 to derive the proposed charges for the five-year rate setting period. The current, test year, and proposed fixed charges are shown in Table 6-2. The charges for FY 2024-25 are the test year charges multiplied by the revenue adjustment. The subsequent years are the prior year charges multiplied by the applicable revenue adjustment. All rates are rounded up to the nearest whole penny.

Table 6-2: Proposed Bi-Monthly Fixed Water Service Charge

Meter Size	Current	Test Year	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Revenue Adjustment	t		50.0%	16.0%	1.5%	1.5%	1.5%
5/8"x3/4" & 3/4"	\$49.33	\$49.40	\$74.10	\$85.96	\$87.25	\$88.56	\$89.89
1"	\$82.41	\$81.71	\$122.57	\$142.19	\$144.33	\$146.50	\$148.70
1.5"	\$164.13	\$162.47	\$243.71	\$282.71	\$286.96	\$291.27	\$295.64
2"	\$262.77	\$259.39	\$389.09	\$451.35	\$458.13	\$465.01	\$471.99
3"	\$575.37	\$566.29	\$849.44	\$985.36	\$1,000.15	\$1,015.16	\$1,030.39
4"	\$821.78	\$1,018.58	\$1,527.87	\$1,772.33	\$1,798.92	\$1,825.91	\$1,853.30

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

6.2. Volumetric Rates

The volumetric rate is comprised of two components: base costs and peaking costs. Base costs are applied uniformly to all customer classes as the rates cover the cost of providing water during average conditions. The base unit costs are shown in Table 5-13, Line 8, Base column.

Peaking unit rates vary by customer class and tier based on peak water use characteristics. They capture the differences in max day and max hour demands the different classes and tiers place on the system, which incur different costs. The individual class/tier peaking rates are developed by taking the total unit cost for Max Day and Max Hour by customer class and tier (Line 8, Table 5-13) and multiplying it by the extra capacity units for each class/tier shown in Table 5-12. That total amount is shown in Table 6-3, Column B. That allocated cost is divided by the annual use (Column C) to obtain the peaking unit cost for each customer class/tier. Table 6-4 shows the derivation of the volumetric charge for each customer class/tier. The total is the sum of the peaking and base components.

Table 6-3: Volumetric Rate Calculation

		Peaking	Annual Use	Peak Unit
No.	Class	Cost	(kgal)	Cost
	(A)	(B)	(C)	(D)
1	Residential			
2	Tier 1: 0 - 7 kgal	\$65,926	76,890	\$0.86
3	Tier 2: 8 - 16 kgal	\$67,299	35,935	\$1.87
4	Tier 3: > 16 kgal	\$103,841	28,206	\$3.68
5	Commercial	\$130,883	106,106	\$1.23
6	Irrigation	\$98,196	22,057	\$4.45
	Total	\$466,145	269,193	

Table 6-4: Test Year Volumetric Rate Derivation

				Total
	Water	Peaking		Volumetric
Customer Class	Use	Component	Base	Rate
Residential				
Tier 1: 0 - 7 kgal	76,890	\$0.86	\$2.78	\$3.65
Tier 2: 8 - 16 kgal	35,935	\$1.87	\$2.78	\$4.66
Tier 3: > 16 kgal	28,206	\$3.68	\$2.78	\$6.47
Commercial	106,106	\$1.23	\$2.78	\$4.02
Irrigation	22,057	\$4.45	\$2.78	\$7.24

The test year volumetric charges are then multiplied by the revenue adjustments shown in Table 4-9 to derive the proposed volumetric charges for the five-year rate setting period. The proposed volumetric charges are shown in Table 6-5. All rates are rounded up to the nearest whole penny.

Table 6-5: Proposed 5-Year Water Volumetric Rate Schedule

Customer Class	Current	Test Year	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Revenue Adjustment			50.0%	16.0%	1.5%	1.5%	1.5%
Residential							
Tier 1: 0 - 7 kgal	\$4.52	\$3.65	\$5.48	\$6.36	\$6.46	\$6.56	\$6.66
Tier 2: 8 - 16 kgal	\$4.52	\$4.66	\$6.99	\$8.11	\$8.24	\$8.37	\$8.50
Tier 3: > 16 kgal	\$4.52	\$6.47	\$9.71	\$11.27	\$11.44	\$11.62	\$11.80
Commercial	\$4.52	\$4.02	\$6.03	\$7.00	\$7.11	\$7.22	\$7.33
Irrigation	\$4.52	\$7.24	\$10.86	\$12.60	\$12.79	\$12.99	\$13.19

7. Wastewater Financial Plan

This section describes the assumptions used in projecting wastewater enterprise operating and capital expenses as well as reserve coverage requirements for the ten-year study period (FY 2024-25 – FY 2033-34) plus the current fiscal year. These assumptions determine the overall revenue adjustments and the total amount of revenue required from rates. The revenue covers operating and maintenance (O&M) and capital expenses, as well as reserve funding. Revenue adjustments represent the average rate increase for the City as a whole; rate changes for individual customers will depend on the cost-of-service analysis described in the following chapter.

Financial plan assumptions were provided by and discussed in detail with City staff. The assumptions shown in Table 3-7 were incorporated into the financial plan. To develop the financial plan, Raftelis projected annual expenses and revenues and modeled cash reserve balances. The City is not anticipating financing any wastewater capital improvements. While the wastewater operating fund pays its share of general fund debt for shared facilities, the wastewater fund does not have to meet debt coverage ratios associated with this general fund debt. This section of the report provides a discussion of projected revenue, O&M expenses, the CIP, and reserve funding under existing rates and the revenue adjustments needed to return the fund to fiscal sustainability.

7.1. Current Rate Revenue

The City's revenues consist of rate revenues, interest earnings on cash reserves, and other miscellaneous revenues. The rate revenue projections shown below assume that current FY 2023-24 (Table 3-2) rates are effective throughout the study period; and, therefore, represent estimated revenues in the absence of any revenue adjustments. This status quo scenario provides a baseline from which Raftelis evaluates the need for revenue adjustments.

7.1.1. Calculated Wastewater Rate Revenues

Raftelis projected wastewater rate revenues from fixed bi-monthly charges and volumetric charges for FY 2023-24 through FY 2033-34 based on current wastewater rates, the projected number of meters, projected average winter water use (residential), and projected annual metered water (non-residential).

The City collects fixed bi-monthly charges from its customers based on the number and size of meters. Table 7-1 shows projected fixed charge revenues under current rates over the study period. Fixed charge revenues are calculated as shown below.

Annual Fixed Charge Revenue for 5/8"x3/4" meter = [FY 2023-24 fixed bi-monthly rate 5/8"x3/4" meter] \times [Number of 5/8"x3/4" connections] \times [6 Bills per year]

Meter Size	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
5/8"x3/4"	\$1,157,420	\$1,163,207	\$1,169,023	\$1,174,869	\$1,180,743	\$1,186,647
3/4"	\$11,142	\$11,198	\$11,254	\$11,310	\$11,367	\$11,424
1"	\$77,552	\$77,939	\$78,329	\$78,721	\$79,114	\$79,510
1.5"	\$79,516	\$79,516	\$79,516	\$79,516	\$79,516	\$79,516
2"	\$107,720	\$107,720	\$107,720	\$107,720	\$107,720	\$107,720
3"	\$42,885	\$42,885	\$42,885	\$42,885	\$42,885	\$42,885
4"	\$22,969	\$22,969	\$22,969	\$22,969	\$22,969	\$22,969
Total	\$1,499,205	\$1,505,436	\$1,511,697	\$1,517,990	\$1,524,315	\$1,530,671

Table 7-1: Projected Fixed Charge Revenues Under Current Wastewater Rates

Table 7-2 shows projected Volume charge revenues under current rates over the study period. Volume charge revenues are calculated for each year as follows based on current wastewater rates (Table 3-2) and projected water use (Table 3-5).

Residential Annual Volume Charge Revenue = $[FY 2023-24 \text{ rate per unit}] \times [Winter Average Water Use] \times 6$ Non-Residential Annual Volume Charge Revenue = [FY 2023-24] rate per unit [X | Annual Water Use]

Table 7-2: Projected Volume Charge Revenue Under Current Wastewater Rates

Customer Class	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Residential	\$720,366	\$723,968	\$727,588	\$731,225	\$734,882	\$738,556
Non-Residential	\$868,945	\$868,945	\$868,945	\$868,945	\$868,945	\$868,945
Total	\$1,589,311	\$1,592,913	\$1,596,533	\$1,600,171	\$1,603,827	\$1,607,501

7.1.2. Other Revenues

Table 7-3 shows all other revenues over the rate-setting period. All FY 2023-24 other revenues are based on the City's FY 2023-24 budget. Additional revenues from FY 2024-25 through FY 2033-34 were projected by Raftelis. Penalties are forecast to increase similarly to the overall increase in the number of meters. Insurance claims increase based on general inflation. Interest revenue is estimated beginning in FY 2024-25 based on estimated beginning fund balances, revenues and expenses, and the assumed interest rate. Since the fund is in a deficit under the status quo, no interest revenue is earned.

Table 7-3: Projected Other Wastewater Enterprise Revenues, Status Quo

Line Item	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Interest Income	\$7,400	\$0	\$0	\$0	\$0	\$0
Penalties	\$2,500	\$2,512	\$2,524	\$2,536	\$2,548	\$2,561
Insurance Claims	\$8,600	\$8,729	\$8,860	\$8,993	\$9,128	\$9,265
Miscellaneous Income	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Total	\$19,500	\$12,241	\$12,384	\$12,529	\$12,676	\$12,825

7.2. Operations and Maintenance Expenses - Wastewater

The City's expenses include operations and maintenance expenses, capital expenses, and debt service payments. This section discusses the details of each of these expenses. Agenda Item Number: 4

7.2.1. Total Operations and Maintenance Budget

The City provided Raftelis with its wastewater enterprise budget for FY 2023-24. The City also provided the general and administration costs for FY 2024-25 based on a revised capital allocation plan. To project the City's O&M expenses in future years, Raftelis used the escalation percentages shown in Table 3-7 to project future expenses. A summary of the budgeted and projected O&M during the rate-setting period is shown in Table 7-4. Approximately 62 percent of general and administrative costs are for finance, engineering, and public works.

Table 7-4: Summary of Projected Wastewater Operations and Maintenance Expenses

Line Item	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Salaries & Benefits	\$454,982	\$519,529	\$541,155	\$601,051	\$622,944	\$647,713
Materials, Supplies & Equipment	\$126,129	\$129,913	\$133,810	\$137,824	\$141,959	\$146,218
Subregional Contract Services	\$1,821,822	\$2,280,000	\$2,416,800	\$2,561,808	\$2,715,516	\$2,878,447
Utilities	\$64,137	\$70,543	\$77,606	\$83,162	\$89,123	\$93,803
Capital Outlay	\$43,380	\$44,681	\$46,022	\$47,403	\$48,825	\$50,289
Other	\$245,144	\$121,696	\$125,347	\$129,107	\$132,980	\$136,970
G&A Allocation	\$1,113,046	\$908,935	\$1,045,651	\$1,114,391	\$1,174,171	\$1,237,427
Total	\$3,868,640	\$4,075,296	\$4,386,390	\$4,674,746	\$4,925,518	\$5,190,867

7.2.2. Capital Improvement Plan

Table 7-5 shows the City's plan for water capital improvements over the rate-setting period. The CIP is inflated by 6 percent per year to reflect projected inflationary increases from an uninflated base of FY 2022-23 except for the current year, which is in FY 2023-24 dollars.

Table 7-5: Projected Wastewater Capital Improvement Projects

Project	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Zimpher Creek Sewer Relocation Part 1 - Cover Lane Rerouting	\$0	\$32,000	\$1,000	\$222,000	\$0	\$0
Zimpher Creek Sewer Relocation Part 2 - West End	\$0	\$0	\$0	\$115,200	\$1,000	\$604,500
Zimpher Creek Sewer Relocation Part 3 - Repairs at East End	\$0	\$0	\$0	\$0	\$31,000	\$31,000
Parquet Street Sewer Line Replacement	\$530,000	\$0	\$0	\$0	\$0	\$0
Ives Park Project Path Project (Sewer access road)	\$12,000	\$0	\$0	\$0	\$0	\$0
Sewer System Master Plan Update	\$0	\$0	\$132,000	\$0	\$0	\$0
Replacement Program Set-aside	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000
Total Uninflated	\$542,000	\$32,000	\$133,000	\$637,200	\$332,000	\$935,500
Total Inflated	\$542,000	\$35,955	\$158,405	\$804,450	\$444,291	\$1,327,025

7.2.3. Existing and Proposed Debt Service

The wastewater fund pays a portion of general fund debt related to shared facilities, as shown in Table 7-6. According to City staff, the wastewater fund does not have any debt service requirements for these loans. The City plans to use cash to fund capital projects over the study period. Therefore, no proposed debt service is modeled.

Table 7-6: Existing Debt Service

Debt	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Infrastructure Lease*	\$58,768	\$58,769	\$58,768	\$0	\$0	\$0
TELPA*	\$119,888	\$119,888	\$119,888	\$119,888	\$119,888	\$119,888
Total	\$178,656	\$178,657	\$178,656	\$119,888	\$119,888	\$119,888

^{*} Wastewater Portion

7.3. Reserve Targets

The City maintains a wastewater operating reserve fund.

Operating Reserve – The Operating Reserve is used primarily to meet ongoing cash flow requirements. The City's minimum reserve target is set at 25 percent (three months) of water operating and maintenance expenses plus annual debt service.

Capital Reserve – The City does not have a capital reserve.

Recommended Operating Reserve – Given the City bills bi-monthly, Raftelis recommends the City eventually move to a 120-day operating reserve once the fund has become self-sufficient by meeting annual operating, debt service, and cash-capital needs as well as the current operating reserve target. We recommend that the City evaluate this policy in the intervening years or as part of the next rate cycle.

Recommended Capital Reserve -- A common reserve target is 100 percent - 150 percent of the annual average 5year capital improvement program. The City may also want to consider an emergency reserve fund as well. Given the wastewater fund's tenuous position, Raftelis recommends implementing a capital reserve and possibly an emergency reserve target once the fund has become self-sufficient by meeting annual operating, debt service, and cash-capital needs, as well as the current operating reserve target. We recommend that the City evaluate this policy in the intervening years or as part of the next rate cycle once a Wastewater System Master Plan is completed.

7.4. Status Quo Wastewater Financial Plan

To demonstrate the importance of increasing revenue to keep up with costs, Raftelis modeled a 'status quo' version of the financial plan. This financial plan scenario examines reserve balances, costs, and revenues. It also assumes that there are no rate-related revenue increases during the study period to establish a baseline for other model scenarios. Table 7-7 shows a summary cashflow for the wastewater enterprise over the ratesetting period. Total revenues are less than annual operating and maintenance (O&M) expenses each year and net revenues become increasingly negative. This negative cash flow is before debt service and cash funded capital. The wastewater fund balance becomes negative in the current fiscal year and is projected to become increasingly negative absence revenue increases.

Table 7-7: Wastewater Cashflow, Status Quo

Line Item	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
Beginning Balance	\$392,668	-\$1,088,612	-\$3,012,877	-\$5,230,517	-\$8,386,708	-\$12,402,347
Revenues						
Rate-Based	\$3,088,516	\$3,098,349	\$3,108,230	\$3,118,161	\$3,128,142	\$3,138,172
Other	\$19,500	\$12,241	\$12,384	\$12,529	\$12,676	\$12,825
Total Revenue	\$3,108,016	\$3,110,590	\$3,120,614	\$3,130,690	\$3,140,818	\$3,150,998
O&M	\$3,868,640	\$4,075,296	\$4,386,390	\$4,674,746	\$4,925,518	\$5,190,867
Net Revenues	-\$760,624	-\$964,707	-\$1,265,776	-\$1,544,055	-\$1,784,700	-\$2,039,869
Capital-Related						
Debt Service	\$178,656	\$178,657	\$178,656	\$119,888	\$119,888	\$119,888
Cash Capital	\$542,000	\$780,902	\$773,208	\$1,492,248	\$2,111,051	\$709,260
Total Capital-Related	\$720,656	\$959,559	\$951,864	\$1,612,136	\$2,230,939	\$829,147
Annual Surplus/Deficit	-\$1,481,280	-\$1,924,265	-\$2,217,640	-\$3,156,191	-\$4,015,639	-\$2,869,017
Ending Balance	-\$1,088,612	-\$3,012,877	-\$5,230,517	-\$8,386,708	-\$12,402,347	-\$15,271,364
Reserve Target	\$997,963	\$1,048,920	\$1,125,628	\$1,182,238	\$1,244,073	\$1,309,501
Net Revenues Capital-Related Debt Service Cash Capital Total Capital-Related Annual Surplus/Deficit Ending Balance	-\$760,624 \$178,656 \$542,000 \$720,656 - \$1,481,280 -\$1,088,612	-\$964,707 \$178,657 \$780,902 \$959,559 - \$1,924,265 -\$3,012,877	-\$1,265,776 \$178,656 \$773,208 \$951,864 -\$2,217,640 -\$5,230,517	-\$1,544,055 \$119,888 \$1,492,248 \$1,612,136 - \$3,156,191 -\$8,386,708	-\$1,784,700 \$119,888 \$2,111,051 \$2,230,939 - \$4,015,639 -\$12,402,347	-\$2,039,86 \$119,88 \$709,26 \$829,14 - \$2,869,01 -\$15,271,36

Figure 7-1, shows the projected ending balance versus the minimum balance. This status quo model shows the need for rate revenue increases since negative balances start in FY 2023-24.

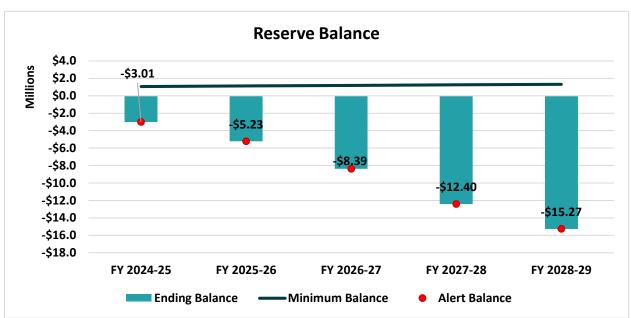


Figure 7-1: Wastewater Reserve Balances Under the Status Quo

7.5. Proposed Financial Plan and Revenue Adjustments

Given the projected deficit shown in Table 7-7, and per the direction of City staff, Raftelis has modeled a transfer from the General Fund into the wastewater fund to bring the projected ending balance for FY 2023-24 to \$0. From this starting point, Raftelis has projected proposed revenue adjustments. The proposed revenue adjustments help ensure adequate revenue to fund operating expenses, capital expenditures, meet reserve minimums, and repay the General Fund. The Financial Plan modeling assumes the first revenue adjustment occurs on July 1, 2024 and the subsequent adjustments start on July 1. The proposed revenue adjustments would enable the City to meet operating costs, capital improvement projects, general fund repayment, and eventually meet reserve minimums. Table 7-8 shows the proposed wastewater revenue adjustments for the rate-setting period.

Table 7-8: Proposed Revenue Adjustments

	Revenue
Fiscal Year	Adjustment
FY 2024-25	50.0%
FY 2025-26	11.0%
FY 2026-27	9.0%
FY 2027-28	9.0%
FY 2028-29	9.0%

Table 7-9, on the following page, shows the cash flow detail over the rate-setting period for the wastewater operating fund assuming the revenue adjustments shown above and a General Fund transfer of approximately \$1.1 million. Line 1 shows the projected rate-revenue under existing rates. Line 2 shows the forecast adjusted revenue from the proposed revenue adjustments. Line 3 shows the projected general fund transfer. Line 6 shows total wastewater fund revenue including non-operating revenues and interest. Line 9 shows total O&M expenses. Line 10 shows net revenues, or revenues less expenses, which is the result of subtracting Line 9 from Line 6. Line 13 shows the projected debt service payments. Line 14 shows the cash-funded capital. Line 15 shows the projected repayments to the general fund presuming a 3-year grace period, no interest, and a 5-year payback. Line 16 shows the annual surplus or deficit, which is Line 10 less Line 13 less Line 14 less Line 15. Line 17 shows the enterprise's operating balance at the start of the fiscal year. The ending fund balance in Line 18 is the beginning balance (Line 17) plus the annual surplus or deficit (Line 16). Line 19 shows the minimum operating reserve level.

Table 7-9: Wastewater Operating Cashflow

No.	Line Item	FY2023-24	FY2024-25	FY2025-26	FY2026-27	FY2027-28	FY2028-29
1	Revenue Under Existing Rates	\$3,088,516	\$3,098,349	\$3,108,230	\$3,118,161	\$3,128,142	\$3,138,172
2	Additional Rate-Revenue	\$0	\$1,549,174	\$2,066,973	\$2,540,834	\$3,059,906	\$3,628,428
	Other Revenue						
3	General Fund Transfer	\$1,088,808	\$0	\$0	\$0	\$0	\$0
4	Interest	\$7,400	\$6,595	\$21,684	\$32,014	\$43,231	\$52,201
5	Miscellaneous	\$12,100	\$12,241	\$12,384	\$12,529	\$12,676	\$12,825
6	Total Revenue	\$4,196,824	\$4,666,359	\$5,209,272	\$5,703,538	\$6,243,955	\$6,831,627
	O&M Expenses						
7	Operating Expenditure	\$2,755,594	\$3,166,361	\$3,340,739	\$3,560,355	\$3,751,347	\$3,953,440
8	G&A Allocation	\$1,113,046	\$908,935	\$1,045,651	\$1,114,391	\$1,174,171	\$1,237,427
9	Total O&M Expenses	\$3,868,640	\$4,075,296	\$4,386,390	\$4,674,746	\$4,925,518	\$5,190,867
10	Net Revenue	\$328,184	\$591,062	\$822,882	\$1,028,792	\$1,318,437	\$1,640,760
	Debt Service						
11	Existing	\$178,656	\$178,657	\$178,656	\$119,888	\$119,888	\$119,888
12	Proposed	\$0	\$0	\$0	\$0	\$0	\$0
13	Total Debt Service	\$178,656	\$178,657	\$178,656	\$119,888	\$119,888	\$119,888
14	Cash Funded Capital	\$542,000	\$35,955	\$158,405	\$804,450	\$444,291	\$1,327,025
15	General Fund Repayment	\$0	\$0	\$0	\$0	\$217,762	\$217,762
	Annual Surplus/Deficit	-\$392,472		•			
17	Beginning Balance	\$392,668	\$196	•			\$1,503,418
18	Ending Balance	\$196	\$376,647	. ,		\$1,503,418	
19	Minimum Reserve Level	\$997,963	\$1,048,920	\$1,125,628	\$1,182,238	\$1,297,767	\$1,363,196

Figure 7-2 through Figure 7-4 display the FY 2024-25 through FY 2028-29 Financial Plan in graphical form. Figure 7-2 illustrates the Wastewater Operating Financial Plan – it compares existing (blue line) and proposed revenues (black line) with projected expenses (stacked columns). The yellow bars above the axis show the net cash used to build up the reserves and the bars below the axis show the withdrawals from reserves to fund costs. Projected revenue from existing rates, if continued unchanged, would not meet future projected total expenses and illustrates the need for revenue adjustments necessary to maintain operations, accomplish the desired CIP, and to meet reserve minimums.

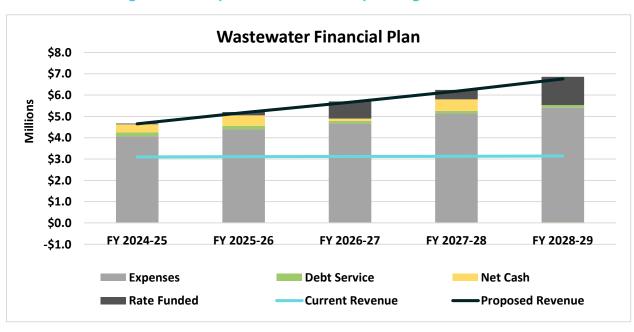


Figure 7-2: Proposed Wastewater Operating Financial Plan

Figure 7-3 summarizes the projected CIP, which is projected to be funded with cash.

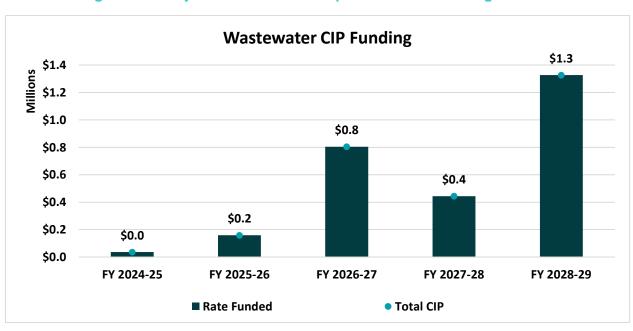


Figure 7-3: Projected Wastewater Capital Plan and Funding Sources

Figure 7-4 displays the projected total wastewater reserve yearly ending balance (teal bars). The black line is the minimum fund balance, which is 25 percent of annual operating and maintenance and debt service costs. As shown, the fund is projected to return to the minimum balance in FY 2027-28. Raftelis recommends the City increase the minimum reserves as discussed in Section 7.3 once the fund has become self-sufficient by meeting annual operating, debt service, and cash-capital needs as well as the current operating reserve minimum.

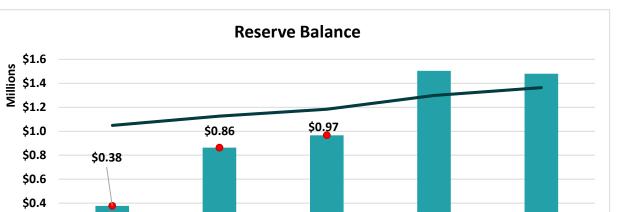
FY 2028-29

FY 2024-25

Ending Balance

FY 2025-26

\$0.2 \$0.0



FY 2026-27

---- Minimum Balance

FY 2027-28

Alert Balance

Figure 7-4: Projected Wastewater Reserve Balance

8. Wastewater Cost-of-Service **Analysis**

A cost-of-service analysis distributes a utility's revenue requirement (costs) to each customer class. This section explains the details of the cost-of-service analysis conducted for the City for its wastewater system services to customers.

After determining a utility's revenue requirement, the next step in a cost-of-service analysis is to functionalize its O&M costs to the following functions:

- Collection cost of collecting wastewater and transporting it to the wastewater treatment plant
- Treatment Subregional cost of treating the wastewater
- Customer costs associated with billing and customer service
- General and Administration (G&A) general and administrative costs incurred by the City

The functionalization of costs allows us to better allocate the functionalized costs to the rate components.

8.1. Revenue Requirement Determination

Table 8-1 shows the net revenue requirement from rates for FY 2023-24, the test year. The total revenue requirement shown in Line 5 is equal to operating expenses (Table 7-4), capital expenses (Table 7-5), and debt service (Table 7-6). Other operating revenues, totaled in Line 9, comprise the estimated transfer in from the general fund to have the enterprise have a zero balance at the start of FY 2024-25, miscellaneous revenues and interest income, which reduce the total revenue required from rates. The adjustment for cash (Line 10) is subtracted to account for the withdrawal from reserves. The revenue required from rates is equal to the total revenue requirements less other operating revenues and adjustments.

Table 8-1: Revenue Requirement Determination

No.	Line Item	Operating	Capital	Total
	Expenses			
1	Operating Expenditure	\$2,755,594		\$2,755,594
2	G&A Allocation	\$1,113,046		\$1,113,046
3	Existing Debt Service		\$178,656	\$178,656
4	Rate Funded Capital Projects		\$542,000	\$542,000
5	Subtotal	\$3,868,640	\$720,656	\$4,589,296
	Less: Offsets			
6	Transfer from General Fund	\$1,088,808		\$1,088,808
7	Interest Revenue		\$7,400	\$7,400
8	Misc. Revenue	\$12,100		\$12,100
9	Subtotal	\$1,100,908	\$7,400	\$1,108,308
	Less: Adjustments			
10	Adjustment for Cash Balance	\$392,472		\$392,472
11	Subtotal	\$392,472	\$0	\$392,472

8.2. Functionalization of Net Revenue Requirement

Functionalizing expenses allows Raftelis to follow the principles of rate setting theory in which the end goal is to allocate the City's revenue requirements to cost causation components. Table 8-2 shows the resulting functionalization of the City's O&M expenses (Line 5, Table 8-1) and O&M offsets (Lines 6 and 8, Table 8-1). Raftelis worked with City staff to functionalize the test year O&M line items to the functions listed at the beginning of Section 8 (see Appendix B). O&M offsets are allocated the same as the total O&M revenue requirements.

Table 8-2: Functionalization of Net O&M

Function	O&M	O&M Offsets	Net O&M
Collection	\$480,557	-\$185,506	\$295,052
Customer Service	\$4,665	-\$1,801	\$2,864
Sub-regional	\$1,821,822	-\$703,263	\$1,118,559
General & Admin	\$1,561,596	-\$602,810	\$958,786
Total	\$3,868,640	-\$1,493,380	\$2,375,260

Table 8-3 shows the functionalization of net capital costs (Line 12, Table 8-1). The costs are allocated in proportion to the City's wastewater assets.

Table 8-3: Functionalization of Net Capital

Function	Asset	Capital-Related
Collection	\$2,905,831	\$704,036
Customer Service	\$0	\$0
Subregional	\$0	\$0
General & Admin	\$38,055	\$9,220
Total	\$2,943,886	\$713,256

8.3. Allocation of Functionalized Net Revenue Requirements to Cost Components

After functionalizing the net revenue requirements, the next step is to allocate the functionalized net revenue requirements to the following cost components:

- Variable costs associated with meeting the flow of wastewater through the collection system
- Fixed the costs associated with billing, customer service, and other fixed costs

8.3.1. Operating and Capital Allocation

Table 8-4 shows the system functions, the rationale for allocating each function to the various cost components, and the percentage allocation to each component.

Table 8-4: Allocation of Functions to Cost Components

Function	Allocation Basis	Variable	Fixed	Total
Collection	Flow & Customer	100%	0%	100%
Customer Service	Customer	0%	100%	100%
Sub-regional	Flow	100%	0%	100%
General & Admin	General & Admin	0%	100%	100%

Table 8-5 shows the detailed net operating costs by cost component (Table 8-2) allocated to the cost components using the allocations shown in Table 8-4.

Table 8-5: Allocation of Net Wastewater Operation & Maintenance to Cost Components

Function	Net O&M	Variable	Fixed
Collection	\$295,052	\$295,052	\$0
Customer Service	\$2,864	\$0	\$2,864
Sub-regional	\$1,118,559	\$1,118,559	\$0
General & Admin	\$958,786	\$0	\$958,786
Net O&M	\$2,375,260	\$1,413,610	\$961,650

Table 8-6 shows the allocation of capital-related revenue requirement (Table 8-3) to the components.

Table 8-6: Allocation of Wastewater Capital-Related Expenses to Cost Components

Function	Net Capital	Variable	Fixed
Collection	\$704,036	\$704,036	\$0
Customer Service	\$0	\$0	\$0
Sub-regional	\$0	\$0	\$0
General & Admin	\$9,220	\$0	\$9,220
Net O&M	\$713,256	\$704,036	\$9,220

8.4. Derivation of Units of Service

8.4.1. Equivalent Meters

The City bills each wastewater customer based on meter size. Raftelis proposes using winter average use by meter size instead of safe operating capacity to differentiate fixed wastewater charges, as this is a better indicator of the relative wastewater flow generated at each meter size. To put these meters on an equivalent basis, Raftelis calculated the winter average usage at each meter size as shown in Table 8-7. The winter average usage in kgal comes from the billing data. The ratios (Column C) are calculated by dividing the winter average (Column B) for each meter size (Column A) by the winter average for the 5/8"x3/4" & 3/4" meters (Column B, Line 1). Meter counts (Column D) at each size are multiplied by the ratio (Column C) to arrive at the total number of equivalent meters, shown in Column E. For example, there are 52, 1.5" meters in the wastewater system; and those 52, 1.5" meters are equivalent to the winter average demands of 359, 3/4" meters.

Table 8-7: Equivalent Meters

	Meter Size	Winter Average		Total	Total Equivalent
No.	(inches)	(kgal)	Ratio	Meters	Meters
	(A)	(B)	(C)	(D)	(E)
1	5/8x3/4" & 3/4"	7.9	1.00	2,542	2,542
2	1"	21.4	2.71	101	274
3	1.5"	54.5	6.90	52	359
4	2"	69.8	8.83	44	389
5	3"	173.7	21.98	8	176
6	4"	523.2	66.22	3	199
7	Total			2,750	3,938

8.4.2. Unit Costs of Service

Raftelis calculated unit costs for each cost component by assessing the average winter annualized water use for residential customers, annual metered water use for non-residential customers, and equivalent meters. Table 8-8 shows the units of service for the wastewater collection system.

Table 8-8: Units of Service

Annual Flow (kgal)	Equivalent Meters		
154,190	3,938		

Table 8-9 shows the total unit costs of service. The Net Operating Expenses shown in the first line matches the total allocated to Flow and Customer from Table 8-5. The Net Capital Expenses shown in Line 2 matches Table 8-6. To maintain a similar amount of fixed cost recovery, which helps with revenue stability, a portion of the Variable costs have been allocated to Fixed (Line 4) for revenue stability and that most costs of the system do not vary with flow. Line 5 is the adjusted cost of service. This line is divided by the units (Line 6), which repeats the wastewater flow and accounts from Table 8-8, to determine the unit costs shown in Line 7.

Table 8-9: Total Wastewater Unit Costs of Service

No.	Line Item	Variable	Fixed	Total
1	Net Operating Expenses	\$1,413,610	\$961,650	\$2,375,260
2	Net Capital Expenses	\$704,036	\$9,220	\$713,256
3	Subtotal Cost of Service	\$2,117,647	\$970,870	\$3,088,516
4	Volumetric to Fixed	-\$529,412	\$529,412	\$0
5	Total Cost of Service	\$1,588,235	\$1,500,281	\$3,088,516
6	Units	154,190	3,938	
		kgal	EMs	
7	Unit Cost	\$10.30	\$380.98	

9. Wastewater Rates

9.1. Wastewater Test Year Rate Derivation

Raftelis has calculated wastewater rates for the test year. Table 9-1 shows the derivation of the test year wastewater fixed charge. The equivalent meter unit rate from Table 8-9 is applied to the 5/8"x3/4" & 3/4" meter sizes (base meter). The charge for other meter sizes is the base meter charge multiplied by the corresponding winter average meter ratios (Table 8-7).

Table 9-1: Wastewater Fixed Charge Derivation, Test Year

Meter Size	Ratio	\$/bi-mo
5/8x3/4" & 3/4"	1.00	\$63.50
1"	2.71	\$172.23
1.5"	6.90	\$438.13
2"	8.83	\$560.68
3"	21.98	\$1,395.87
4"	66.22	\$4,204.78

The test year volumetric charge is the unit rate shown in Table 8-9.

9.2. Proposed 5-Year Wastewater Rate Schedule

Table 9-2 shows the current, test year, and proposed 5-year schedule of wastewater rates. Rates for FY 2024-25 are the test year unit rates multiplied by the revenue adjustment for FY 2024-25 (Table 7-8). Each subsequent year is the prior year unit rate multiplied by the revenue adjustment for that year. All rates are rounded up to the nearest whole penny.

Table 9-2: Proposed 5-Year Wastewater Rate Schedule

Charge	Current	Test Year	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Revenue Adjustme	ent		50.0%	11.0%	9.0%	9.0%	9.0%
Meter Size, \$/bi-m	10						
5/8x3/4" & 3/4"	\$76.61	\$63.50	\$95.25	\$105.73	\$115.25	\$125.63	\$136.94
1"	\$127.97	\$172.23	\$258.35	\$286.77	\$312.58	\$340.72	\$371.39
1.5"	\$254.86	\$438.13	\$657.20	\$729.50	\$795.16	\$866.73	\$944.74
2"	\$408.03	\$560.68	\$841.02	\$933.54	\$1,017.56	\$1,109.15	\$1,208.98
3"	\$893.44	\$1,395.87	\$2,093.81	\$2,324.13	\$2,533.31	\$2,761.31	\$3,009.83
4"	\$1,276.06	\$4,204.78	\$6,307.17	\$7,000.96	\$7,631.05	\$8,317.85	\$9,066.46
Volume, \$/kgal	\$10.31	\$10.31	\$15.47	\$17.18	\$18.73	\$20.42	\$22.26

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Customer Impact Analysis 10.

Water 10.1.

Figure 10-1 shows a comparison of a 5/8"x3/4" single-family bill at different usage levels for the proposed FY 2024-25 rates versus the current rates.

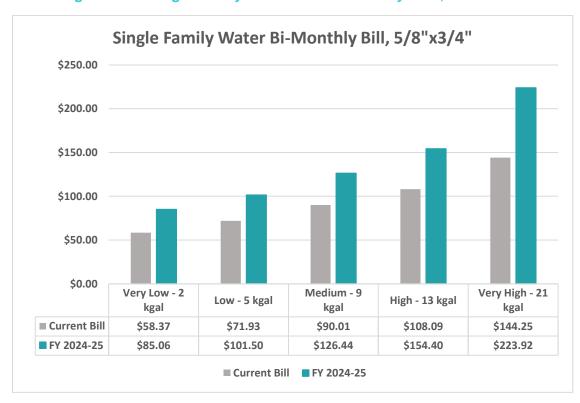
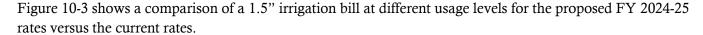


Figure 10-1: Single Family Residential Bi-Monthly Bills, FY 2024-25

Figure 10-2 shows a comparison of a 5/8"x3/4" commercial bill at different usage levels for the proposed FY 2024-25 rates versus the current rates.

Commercial Water Bi-Monthly Bill, 5/8"x3/4" \$250.00 \$200.00 \$150.00 \$100.00 \$50.00 \$0.00 Low - 2 kgal Medium - 9 kgal High - 27 kgal **■** Current Bill \$58.37 \$90.01 \$171.37 FY 2024-25 \$236.91 \$86.16 \$128.37 ■ Current Bill ■ FY 2024-25

Figure 10-2: Commercial Bi-Monthly Bills, FY 2024-25



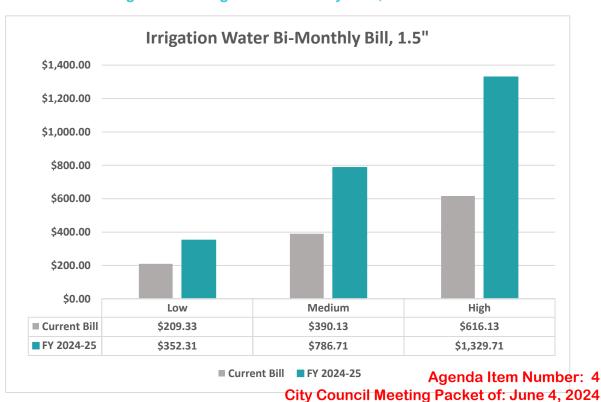


Figure 10-3: Irrigation Bi-Monthly Bills, FY 2024-25

Page 73 of 84

Wastewater 10.2.

Figure 10- shows a bill comparison for a single family residential wastewater customer, using the typical winter water use for the customer class of 6 kgal and a 5/8"x3/4" meter.

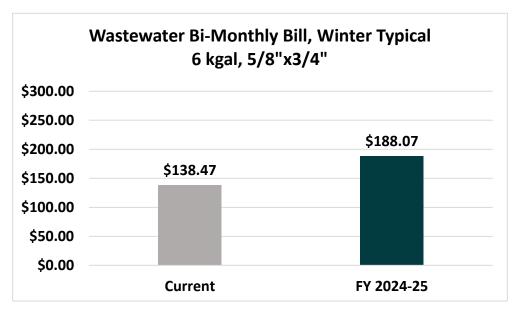


Figure 10-4: Typical Single Family Bi-Monthly Wastewater Bill

Figure 10-5 shows commercial bi-monthly wastewater bills at low, medium, and high water use levels.

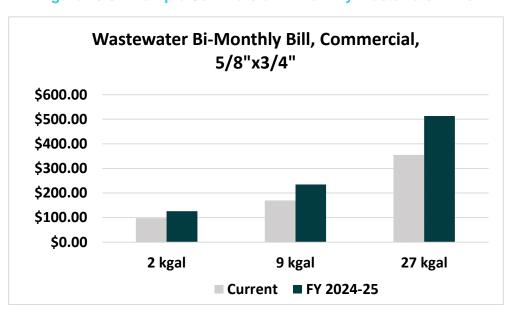


Figure 10-5: Example Commercial Bi-Monthly Wastewater Bills

Combined Bill - Water and Wastewater Service 10.3.

Figure 10-6 shows the combined water and wastewater bill for a 5/8"x3/4" single family residential customer typical water use and winter average water use levels.

Figure 10-6: Combined Single Family Water and Wastewater Bill, FY 2024-25

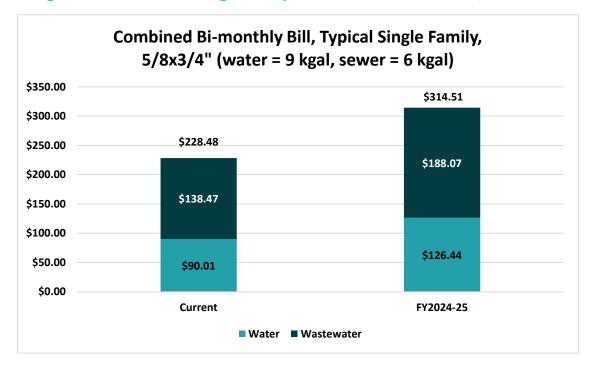
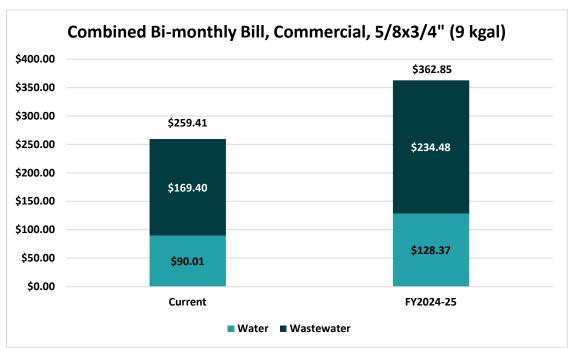


Figure 10-7 shows the combined commercial water and wastewater bill at a medium usage of 9 kgal.

Figure 10-7: Combined Commercial Water and Wastewater Bill, FY 2024-25



				Customer					
Operating Expenditure	Wells	Storage	Meters	Service	Public Fire	T&D	Treatment	G&A	Total
4010 - Salaries - Full Time	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4011 - Salaries - Part Time	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4012 - Overtime	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4013 - Standby	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4017 - Salaries - COVID-19	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4019 - WC- 4850/Temp Disb	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4023 - One Time Payment	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4100 - Employee Benefits	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4101 - Health in Lieu	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4102 - Uniform Allowance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4105 - Medicare & Fica	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4110 - CalPERS Employer Rate	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4130 - Health Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4150 - Dental Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4151 - Vision Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4181 - Long Term Disability Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4182 - Short Term Disability Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4183 - EAP (Employee Asst Prog)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4184 - Life Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4210 - Professional Contract Services	71.9%	7.3%	0.0%	0.0%	0.0%	16.3%	4.6%	0.0%	100.0%
4211 - Banking Fees	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4301 - Bad Debt Expense	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4302 - Loss due to theft	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4310 - Office Supplies	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4330 - Misc Supplies & Services	17.8%	5.9%	5.9%	8.3%	0.0%	5.9%	56.3%	0.0%	100.0%
4332 - Janitorial & Safety Supplies	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4340 - Postage & Printing	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
4351 - Computer Equip (under \$10 K)	50.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
4361 - Meter Replacement Program	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
4365 - Fire Hydrant Replacement Program	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
4366 - Backflow Prevention Program	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
4370 - Equipment(under \$10K)	50.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
4380 - Vehicle Maintenance	25.0%	25.0%	25.0%	0.0%	0.0%	25.0%	0.0%	0.0%	100.0%
4510 - Conference & Training	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4515 - Meetings & Travel	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4710 - Utilities - Gas & Electric	50.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	100.0%
4750 - Telecommunications	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4996 - Allocated Liability Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4997 - Allocated Wrkrs Comp Insurance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
5100 - Capital Outlay	17.2%	10.6%	0.0%	0.2%	0.0%	27.9%	37.9%	6.2%	100.0%
G&A Allocation									
10 - City Council	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
11 - City Manager	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
12 - City Attorney	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
13 - Assistant City Manager/City Clerk	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
14 - Administrative Services (Finance)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
21 - Planning	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
22 - Building	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
23 - Engineering	17.2%	10.6%	0.0%	0.2%	0.0%	27.9%	37.9%	6.2%	100.0%
31 - Fire & Prevention	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
41 - Public Works	17.2%	10.6%	0.0%	0.2%	0.0%	27.9%	37.9%	6.2%	100.0%
00 - Non Departmental	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
•	· -								

			Customer	Sub-	General &	
Operating Expenditure	Collection	Lift Station	Service	regional	Admin	Total
4010 - Salaries - Full Time	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4012 - Overtime	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4013 - Standby	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4017 - Salaries - COVID-19	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4019 - WC- 4850/Temp Disb	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4023 - One Time Payment	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4100 - Employee Benefits	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4101 - Health in Lieu	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4102 - Uniform Allowance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4105 - Medicare & Fica	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4110 - CalPERS Employer Rate	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4130 - Health Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4150 - Dental Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4151 - Vision Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4181 - Long Term Disability Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4182 - Short Term Disability Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4183 - EAP (Employee Asst Prog)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4184 - Life Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4210 - Professional Contract Services	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4210 - Subregional Contract Services	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
4211 - Banking Fees	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4227 - Sewer Lateral Grant Program	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4301 - Bad Debt Expense	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4302 - Loss due to theft	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4330 - Misc Supplies & Services	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4332 - Janitorial & Safety Supplies	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4351 - Computer Equip (under \$10 K)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4360 - Conservation Rebate Program	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4370 - Equipment(under \$10K)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4380 - Vehicle Maintenance	50.0%	0.0%	50.0%	0.0%	0.0%	100.0%
4510 - Conference & Training	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4515 - Meetings & Travel	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4710 - Utilities - Gas & Electric	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
4711 - Utilities - City Bill	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4750 - Telecommunications	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%
4996 - Allocated Liability Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
4997 - Allocated Wrkrs Comp Insurance	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
5100 - Capital Outlay	98.7%	0.0%	0.0%	0.0%	1.3%	100.0%
,						
G&A Allocation						
10 - City Council	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
11 - City Manager	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
12 - City Attorney	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
13 - Assistant City Manager/City Clerk	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
14 - Administrative Services (Finance)	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
21 - Planning	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
22 - Building	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
23 - Engineering	98.7%	0.0%	0.0%	0.0%	1.3%	100.0%
41 - Public Works	98.7%	0.0%	0.0%	0.0%	1.3%	100.0%
00 - Non Departmental	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%

Agenda Item Number: 4 City Council Meeting Packet of: June 4, 2024 Page 77 of 84

Water Option 2 Rates – Bimonthly

Meter Size	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
5/8"x3/4" & 3/4"	\$49.33	\$67.68	\$70.39	\$73.21	\$75.78	\$78.44
1"	\$82.41	\$111.95	\$116.43	\$121.09	\$125.33	\$129.72
1.5"	\$164.13	\$222.59	\$231.50	\$240.76	\$249.19	\$257.92
2"	\$262.77	\$355.37	\$369.59	\$384.38	\$397.84	\$411.77
3"	\$575.37	\$775.82	\$806.86	\$839.14	\$868.51	\$898.91
4"	\$821.78	\$1,395.46	\$1,451.28	\$1,509.34	\$1,562.17	\$1,616.85

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Customer Class	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Residential						
Tier 1: 0 - 7 kgal	\$4.52	\$5.01	\$5.22	\$5.43	\$5.63	\$5.83
Tier 2: 8 - 16 kgal	\$4.52	\$6.39	\$6.65	\$6.92	\$7.17	\$7.43
Tier 3: > 16 kgal	\$4.52	\$8.87	\$9.23	\$9.60	\$9.94	\$10.29
Commercial	\$4.52	\$5.51	\$5.74	\$5.97	\$6.18	\$6.40
Irrigation	\$4.52	\$9.92	\$10.32	\$10.74	\$11.12	\$11.51

Option 2-Wastewater Rate Schedule - Bimonthly

Charge	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Revenue Adjustme	ent	50.0%	11.0%	9.0%	9.0%	9.0%
Meter Size, \$/bi-mo						
5/8x3/4" & 3/4"	\$76.61	\$95.25	\$105.73	\$115.25	\$125.63	\$136.94
1"	\$127.97	\$258.35	\$286.77	\$312.58	\$340.72	\$371.39
1.5"	\$254.86	\$657.20	\$729.50	\$795.16	\$866.73	\$944.74
2"	\$408.03	\$841.02	\$933.54	\$1,017.56	\$1,109.15	\$1,208.98
3"	\$893.44	\$2,093.81	\$2,324.13	\$2,533.31	\$2,761.31	\$3,009.83
4"	\$1,276.06	\$6,307.17	\$7,000.96	\$7,631.05	\$8,317.85	\$9,066.46
Volume, \$/kgal	\$10.31	\$15.47	\$17.18	\$18.73	\$20.42	\$22.26

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

Option 1-Water Rate Schedule - Bimonthly

Meter Size	Current	Test Year	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
Revenue Adjustmen	t		50.0%	16.0%	1.5%	1.5%	1.5%
5/8"x3/4" & 3/4"	\$49.33	\$49.40	\$74.10	\$85.96	\$87.25	\$88.56	\$89.89
1"	\$82.41	\$81.71	\$122.57	\$142.19	\$144.33	\$146.50	\$148.70
1.5"	\$164.13	\$162.47	\$243.71	\$282.71	\$286.96	\$291.27	\$295.64
2"	\$262.77	\$259.39	\$389.09	\$451.35	\$458.13	\$465.01	\$471.99
3"	\$575.37	\$566.29	\$849.44	\$985.36	\$1,000.15	\$1,015.16	\$1,030.39
4"	\$821.78	\$1,018.58	\$1,527.87	\$1,772.33	\$1,798.92	\$1,825.91	\$1,853.30

Note: Single family on a 1" meter for fire service are charged the 3/4" rate.

		Peaking	Annual Use	Peak Unit
No.	Class	Cost	(kgal)	Cost
	(A)	(B)	(C)	(D)
1	Residential			
2	Tier 1: 0 - 7 kgal	\$65,926	76,890	\$0.86
3	Tier 2: 8 - 16 kgal	\$67,299	35,935	\$1.87
4	Tier 3: > 16 kgal	\$103,841	28,206	\$3.68
5	Commercial	\$130,883	106,106	\$1.23
6	Irrigation	\$98,196	22,057	\$4.45
	Total	\$466,145	269,193	

Five-Year Schedule of Wastewater Rates – Baseline Option 1

Fixed Bi-Monthly Charge						
Meter Size	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
5/8x3/4" & 3/4"	\$76.61	\$104.78	\$119.45	\$132.59	\$147.18	\$150.13
1"	\$127.97	\$284.18	\$323.97	\$359.61	\$399.17	\$407.16
1.5"	\$254.86	\$722.92	\$824.13	\$914.79	\$1,015.42	\$1,035.73
2"	\$408.03	\$925.13	\$1,054.65	\$1,170.67	\$1,299.45	\$1,325.44
3"	\$893.44	\$2,303.19	\$2,625.64	\$2,914.47	\$3,235.07	\$3,299.78
4"	\$1,276.06	\$6,937.89	\$7,909.20	\$8,779.22	\$9,744.94	\$9,939.84
Volumetric Rate, \$/kgal						
	Current	7/1/2024	7/1/2025	7/1/2026	7/1/2027	7/1/2028
All Customer Classes	\$10.31	\$17.02	\$19.41	\$21.55	\$23.93	\$24.41

FIRST AMENDMENT TO AGREEMENT BETWEEN THE CITY OF SEBASTOPOL AND RAFTELIS

THIS FIRST AMENDMENT to Agreement between the City of Sebastopol and Raftelis is made and entered into made and entered into on June 4, 2024, by and between the City of Sebastopol, a municipal corporation, hereinafter referred to as the City, and Raftelis, hereinafter referred to as the Consultant.

RECITALS

WHEREAS, the City and the Contractor have entered into an Agreement wherein the Consultant shall furnish professional services in connection with the project described as Utility Rate Study; and

WHEREAS, agreement was effective May 12, 2023; and

WHEREAS, the City and Consultant desire to amend the Agreement; and

WHEREAS, the City and Consultant agree to amend the scope of work to authorize additional services and compensation as follows:

Scope of Work:

- Prepare and provide technical information for the Council at their meeting of April 23, 2024 for a Draft Financial Plan presentation to present options for selection, updating the expenses and resetting inputs to the study for the updated Cost Allocation Study results that were approved by Council in February 2024, modifying the CIP options, consideration of General Fund loan and interest rate options;
- Assisting staff with technical information for the City's ongoing and periodic updates to the FAQs, Q&A document, staffing options document, 5-year historical memo, responses to Council questions to staff received via email, and information for social media distribution, reviewing the agenda packet and attachments for the additional Council meeting of May 21, 2024
- Technical review of the additional Council meeting of May 21, 2024 agenda packet and attachments and virtual attendance at the meeting.
- Prepare Draft and Final Financial Plan study report in e-format and for the Final report: 5 copies of hard copy and bound.

Compensation: Not to Exceed \$54,216 for additional work

WHEREAS, the Amendment is necessary and proper to compensate Consultant for additional work as requested by City and to ensure the City provides clear and transparent information and answers to questions related to the Water Rate Study.

NOW, THEREFORE, the City and the Consultant agree that the Agreement be amended effective June 4, 2024; and

Further, except as herein amended, all terms and conditions of the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have accepted, made, and executed this Amendment to Original Agreement upon the terms, conditions, and provisions above stated, the day and year first above written.

Consultant:	City:	
Ву:	Ву:	
Name:	_	Name: Don Schwartz
Title:	_	Title: City Manager
Approved as to Form:		
Ву:		
Name: Larry McLaughlin		
Title: City Attorney		



May 30, 2024

Mr. Don Schwartz
City Manager
City of Sebastopol
dschwartz@cityofsebastopol.gov

Subject: Raftelis Contract Amendment to Address Additional Work Requests

Dear Mr. Schwartz:

Raftelis respectfully requests an increase to the rate study budget of \$54,216. This is to help cover expenses related to additional, out-of-scope work that began early this year at the city's request and to cover work to be finished (public hearing and report). Raftelis has been tracking additional and out-of-scope work for this project since the budget was exhausted in February.

An accounting of this work is included in this letter and has been discussed with you and your staff. Per your request, we've documented the rationale and reason behind this work in hopes that it will assist your City Council in understanding the need for this amendment.

Background:

Raftelis was hired by the City in May 2023 to perform a rate study for its water and wastewater enterprise funds. As we worked at the direction of City staff, getting inputs into the financial plan, we became aware that both enterprise funds were in a precarious state, which would require significant revenue increases to correct. We flagged for staff the concern about reserve policies not being met and the transfers to the general fund as being atypical. As we prepared for our first meeting with City Council, we suggested that staff ensure that Council had an opportunity to understand how the funds had reached their current state.

The October 2023 meeting went poorly. Council was not provided with the context they needed that explained how and why the enterprise funds were in dismal shape. In addition, our Raftelis presenter was not a good match for this Council. As Council concerns became evident in the meeting, our presenter pushed forward instead of pausing or stopping to request that Council be given time to receive the answers they needed to provide direction to staff and our consultant team. Additionally, at least one typo was identified in the Raftelis presentation resulting in inconsistent data shown on two slides. This likely added to the Council's concern instead of alleviating it.

As a result, the City Council had many questions about the validity of the inputs that had been provided by staff to be used to develop financial plan options. Staff put the study on hold.

Explanation of out-of-scope work at City's request:

In January 2024, Raftelis was asked to re-do the financial plans to ensure that City Council's concerns and questions were addressed. Every input into the financial plans that had been provided by city staff was revisited in multiple meetings. In addition, staff revisited staffing

445 S. Figueroa Street Los Angeles, CA 90071 needs and adjusted CIP numbers multiple times, and asked Raftelis to assist with estimating an annual replacement CIP amount. At this time, staff was working on a Cost Allocation Plan in parallel with the rate study, which resulted in the need for a significant amount of re-work by the Raftelis team on the financial plans to develop a series of new financial plan options. Staff asked for additional meetings, so the number of meetings held quickly moved past what was scoped. In February 2024, as the project re-started staff was alerted that the project budget was exhausted.

As Sebastopol's new City Manager, it was appropriate to "onboard" you to the rate study as well. This was important for you to help the study be successful, but also meant the Raftelis team needed to orient you to the rate study process, what inputs we were using in the financial plans, walk through cost-of-service analysis, and discuss rate structure options and pricing objectives. This was necessary work, but much of this had been done with staff early in summer 2023.

Leading up to the April 2024 presentation to Council, staff requested we review and help provide material for staff memos, and provide several versions of a neighboring agency rate survey. Following our April 2024 presentation to Council, we were asked by staff to analyze several "what ifs" about uniform rates, financial results, rate design questions, and the selection of a different financial plan option for water. Additional out-of-scope work we were also asked to assist is included in a table below.

This request for a contract amendment:

I know you and your team are pleased with our recent work and responsiveness to you and your staff. That said, we are significantly over budget on this project. We rarely work with a City with this level of financial challenges. We've held off billing for this extra work because we want to help and know the state of the City's water and wastewater funds. But it's been an uncommon and costly process for our small firm.

The work this request includes:

This request for \$54,216 includes work performed through May 24, 2024. In recognition of Council's concerns about the October 2023 meeting, this amount does not include two items that we have credited to the City: 1) all preparation and time spent by our staff for the October 2023 Council meeting (\$10,700) and 2) my own time, which I have determined was necessary to quickly reset the project and to manage our firm's reputation given the Council's reaction last fall (\$10,594).

The only scoped work remaining is providing a final rate study report and a virtual presentation for the June 18 public hearing. We estimate this will cost \$5,035, which is included as part of this request for an amendment. We've provided an accounting of our original scope of work and the work we performed at staff's request below:

Tasks	Budget as Scoped	Actual Spent + Remaining Work	Difference
1. Project Initiation, Management, and Data	\$6,300	\$8,045	\$1,745
Collection	ψ0,500	ψο,σ 13	Ψ1,743
2. Financial Plan Development - Water and	\$14,870	\$24,524	\$9,654
Wastewater	ψ14,070	Ψ24,324	Ψ,,034
3. Cost-of-Service Analyses	\$5,630	\$10,549	\$4,919
4. Rate Design	\$10,870	\$11,829	\$959
5. Drought Rates (Drought Surcharges)	\$5,595	\$1,261	(\$4,334)
6. Rate Study Report and Rates Presentations	\$17,210	\$16,640	(\$570)
7. Noticing and Public Hearing	\$5,275	\$7,878	\$2,603
8. In-Person Meetings (includes Travel Expenses)	\$8,393	\$0	(\$8,393)
Out of Scope			
-Re-do Financial Plans (incl. Additional meetings,		\$27.520	\$27.520
CAP, staffing, CIP, etc.)		\$27,530	\$27,530
-Extensive Email Correspondence & Responding		\$6.040	66.040
to Council & Constituent Questions		\$6,940	\$6,940
-Preparation & Attendance at the April 23, 2024		\$4.665	\$4.66 5
Meeting		\$4,665	\$4,665
-May 2024 Council Meeting		\$590	\$590
-Proposition 218 Revisions/Consultation on		61 110	01 110
Accompanying Community Letter		\$1,110	\$1,110
-Redrafts of the Report		\$819	\$819
-Production & Review of Written Material		\$5,980	\$5,980
Total	\$74,143	\$128,359	\$54,216

Please let us know if you need any other information to process this request. We appreciate your attention to this matter and believe the work we've done—if adopted—is the solution that will put the City's enterprise funds on solid footing, which will help ensure a sustainable water and wastewater system are in place for the residents and businesses the City serves.

Sincerely, Welve E. Ellioth

Melissa E. Elliott

Executive Vice President

P: 303.305.1141 / E: melliott@raftelis.com

cc: Kevin Kostiuk, Senior Manager, Raftelis