DIABLO WATER DISTRICT Revised Water Rate Study



DIABLO WATER DISTRICT

87 Carol Lane Oakley, CA 94561-0127

REVISED WATER RATE STUDY

April 19, 2022

HF&H CONSULTANTS, LLC

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HF&H CONSULTANTS, LLC

Managing Tomorrow's Resources Today

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April 19, 2022

Mr. Dan Muelrath General Manager Diablo Water District 87 Carol Lane Oakley, CA 94561-0127

Subject: **Revised Water Rate Study**

Dear Mr. Muelrath:

This report revises HF&H's December 14, 2021 rate study to correct a modeling error and to update for significant changed conditions in the subsequent five months. The rates proposed in this revised rate study adjust rates that became effective February 1, 2022. The adjustment is planned for June 1, 2022.

Very truly yours,

HF&H CONSULTANTS, LLC

John Farnkopf, P.E., Senior Vice President Richard Simonson, C.M.C., Senior Vice President Geoffrey Michalczyk, Senior Associate

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APPENDIX

Water Rate Model

GLOSSARY

AWWA - American Water Works Association

Board - The Board of Directors of the District

Breakpoint – The volume of water per billing period separating tiers in tiered rate structures

CCF - Hundred cubic feet (see HCF below)

CCWD - Contra Costa Water District

Capacity - Capacity is the maximum demand that a customer can place on the infrastructure. It is contrasted with demand (see below). Capacity is determined by the physical properties of the service connection

Charge - A charge is how much a customer is billed and is the product of a rate multiplied times a unit of service (e.g., accounts, HCF)

CIP - Capital Improvement Program

COS - Cost of Service

Demand - Demand is the metered or estimated flow that a customer places on the infrastructure. Demand is determined based on metered or estimated water use, which can vary and is limited by the capacity (see above) of the service connection

District - Diablo Water District

EMU - Equivalent Meter Unit

FY - Fiscal Year; for the District this begins on July 1 and concludes on the immediately following June 30

GPD - Gallons Per Day

HCF - Hundred cubic feet of metered water; 748 gallons; a cube of water 4.6 feet on edge. One HCF per month is about 25 gallons per day

MFR - Multi Family Residential

Monthly Service Charge - Fixed charges per account that do not vary based on metered (volumetric) water use. Flat rates are not uniform rates (see below)

O&M - Operating and Maintenance, in reference to the costs of running facilities

PAYGo - Pay-As-You-Go, in reference to funding capital improvements from cash rather than from borrowed sources such as bonds or loans

Rate - A rate is the unit cost of service per account or volume of flow, which, when multiplied times the units of service (i.e., accounts, HCF) yields a charge that customers are billed

SFR - Single Family Residential

Uniform rates - A constant rate per unit of metered water use that does not change depending on the volume of flow

Water Charges – The volumetric (usage) portion of the District's rate structure that charges a rate per unit of consumption

ACKNOWLEDGEMENTS

HF&H acknowledges the valuable contributions of the following District Board members, staff, and consultants in preparing this Study.

Board of Directors

Paul Seger, President Scott R. Pastor, Vice President Ken Crockett Marilyn Tiernan Joe Kovalick

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LIMITATIONS

This document was prepared solely for the Diablo Water District (District) in accordance with the consulting contract between the District and HF&H and is not intended for use by any other party for any other purpose. In preparing this study, HF&H relied on information provided by the District, which we consider accurate and reliable. This study contains certain assumptions and forecasts regarding future conditions, which cannot be predicted with certainty. If actual conditions vary from these assumptions, there may be a significant difference with the forecasts and projections set out in this study.

Rounding differences caused by stored values in electronic models may exist.

This document represents our understanding of relevant laws, regulations, and court decisions but should not be relied upon as legal advice. Questions concerning the interpretation of legal authorities referenced in this study should be referred to a qualified attorney.

DIABLO WATER DISTRICT REVISED WATER RATE STUDY



I. EXECUTIVE SUMMARY

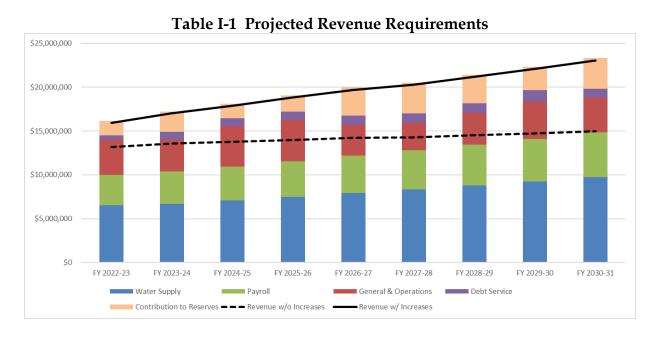
This report documents the process and basis for the proposed adjustments to the Diablo Water District's (District's) water rates and rate structures proposed for adoption for the next five years, beginning June 1, 2022 and each February 1 thereafter through February 1, 2026. The following discussion summarizes HF&H's findings and recommendations.

PURPOSE OF REPORT

This report revises HF&H's December 14, 2021 rate study to correct a modeling error that resulted in rates that were set lower than intended and thereby were not generating sufficient revenue. It was also apparent that water supply conditions and certain expense projections had changed in the subsequent five months. This revised rate study updates the previous revenue requirement projections for the changed conditions at the same time that the rates are adjusted to generate the necessary revenue. The rates proposed in this revised rate study adjust rates that became effective February 1, 2022. The adjustment is planned for June 1, 2022.

PROJECTED REVENUE REQUIREMENTS AND REVENUE INCREASES

The water revenue requirements were reviewed and analyzed by preparing a ten-year projection of District operating and capital expenses. The revised revenue requirement projections are shown in **Table I-1**.



The updated projections show the increases in revenue requirements needed to fund expenses, meet debt service coverage requirements, and maintain adequate reserves.

CUSTOMER CLASS MODIFICATIONS

The District's previous rate structure applied to all customers regardless of customer class. In effect, the District had no customer classes. HF&H proposed that the District implement separate rate structures for the major customer classes that the District tracks in its billing system. HF&H proposed the following customer classes: (i) Single Family Residential, (ii) Multi-Family Residential, (iii) Non Residential (commercial), (iv) Irrigation, and (v) Hydrants.

WATER RATE STRUCTURE MODIFICATIONS

The District's water rate structure comprises two components: monthly service charges and water charges. Service charges are charged on a monthly basis and vary depending on the size of the customer's meter. Water charges are also charged monthly and vary depending on how many units of water are used. This rate structure is applied to all customers without regard to customer class and has been in place for several years with periodic rate increases.

Monthly Service Charges

The cost-of-service analysis indicates that the revenue from the monthly service charge should decrease from 24.5% to 22.7% of total rate revenue. In addition, the monthly service charges have been updated to reflect the rated capacities of each meter size. The proposed monthly service charges, shown by meter size, for the next five years are summarized in **Table I-2**.

Table I-2. Proposed Monthly Service Charge Rates

Service Size	Adopted 2/1/22	Proposed 6/1/22	2/1/2023	2/1/2024	2/1/2025	2/1/2026
5/8" meters	\$17.27	\$19.70	\$20.49	\$21.31	\$22.16	\$23.05
1" meters	\$39.36	\$44.94	\$46.74	\$48.61	\$50.55	\$52.57
1" w/ Fire meters	\$17.27	\$19.70	\$20.49	\$21.31	\$22.16	\$23.05
1 1/2" meters	\$76.18	\$87.01	\$90.49	\$94.11	\$97.88	\$101.79
2" meters	\$120.37	\$137.49	\$142.99	\$148.71	\$154.66	\$160.85
3" meters	\$260.29	\$297.36	\$309.25	\$321.62	\$334.49	\$347.87
4" meters	\$444.39	\$507.71	\$528.02	\$549.14	\$571.10	\$593.95
6" meters	\$996.71	\$1,138.76	\$1,184.31	\$1,231.68	\$1,280.95	\$1,332.19
8" meters	\$2,064.51	\$2,358.78	\$2,453.13	\$2,551.26	\$2,653.31	\$2,759.44
10" meters	\$3,095.50	\$3,536.74	\$3,678.21	\$3,825.34	\$3,978.35	\$4,137.48
12" meters	\$3,905.56	\$4,462.28	\$4,640.77	\$4,826.40	\$5,019.45	\$5,220.23
Fire Services	\$19.92	\$22.73	\$23.64	\$24.58	\$25.57	\$26.59
Fire Hydrant Meters	\$260.29	\$297.36	\$309.25	\$321.62	\$334.49	\$347.87

^{1.} Source: **Figure V-4** plus 3.0% for recent higher than anticipated inflationary increases (e.g. fuel, labor, cost of purchased water) Note: most of the service charge rates proposed for June 1, 2022 are greater than the February 1, 2022 rates but are less than the rates would have been if the full revenue increase were applied to the rates in effect prior to February 1, 2022.

Water Charge Rates

The District's ratepayers were charged a two-tier increasing block rate for their metered water use. California case law¹ provides guidance on designing tiered rates that limits the amount of discretion that was previously common in designing conservation-oriented rates. First, the size of each tier should be based on actual customer demands that correspond with the cost of supplying those demands. This design guideline differs from prior common practices in which deemed amounts (e.g., essential use at the low end or excessive use at the high end) or budgets for indoor and outdoor needs were used as the basis for determining the size of tiers. The proposed consumption charge rates are based on recent customer demands taken from the District's billing data.

Second, the rate for each tier should reflect the cost of providing the service associated with each tier. This design guideline also differs from prior industry practices in which the rates for each tier were adjusted to reward low water use and discourage high water use. The proposed water charge rates are based on the cost of providing for levels of service corresponding to each of the tiers ranging from low peaking to high peaking.

With these modifications, the resulting proposed water charge rates are summarized in **Table I-3.**

Table I-3. Proposed Water Charge Rates

Table 1-5. Troposed Water Charge Rates										
Customer Class	Adopted 2/1/22	Customer Class	Proposed 6/1/22	2/1/2023	2/1/2024	2/1/2025	2/1/2026			
Residential - Single Family		Residential - Single Fa	mily							
Tier 1: 0 - 8 hcf	\$2.61	Tier 1: 0 - 8 hcf	\$2.93	\$3.05	\$3.17	\$3.30	\$3.43			
Tier 2: 9 - 14 hcf	\$4.36	Tier 2: 9 - 14 hcf	\$4.88	\$5.08	\$5.28	\$5.49	\$5.71			
Tier 3: 15+ hcf	\$5.96	Tier 3: 15+ hcf	\$6.70	\$6.97	\$7.25	\$7.54	\$7.84			
Residential - Multi Family		Residential - Multi Far	mily							
All Usage	\$3.83	All Usage	\$4.30	\$4.47	\$4.65	\$4.84	\$5.03			
Non Residential		Non Residential								
Tier 1: 0 - 34 hcf	\$3.52	Tier 1: 0 - 34 hcf	\$3.93	\$4.09	\$4.25	\$4.42	\$4.60			
Tier 2: 35+ hcf	\$4.30	Tier 2: 35+ hcf	\$4.83	\$5.02	\$5.22	\$5.43	\$5.65			
Irrigation		Irrigation								
Tier 1: 0 - 113 hcf	\$3.52	Tier 1: 0 - 113 hcf	\$3.93	\$4.09	\$4.25	\$4.42	\$4.60			
Tier 2: 114+ hcf	\$4.62	Tier 2: 114+ hcf	\$5.18	\$5.39	\$5.60	\$5.83	\$6.06			
Hydrant		Hydrant								
Tier 1: 0 - 115 hcf	\$3.52	Tier 1: 0 - 115 hcf	\$3.93	\$4.09	\$4.25	\$4.42	\$4.60			
Tier 2: 116+ hcf	\$4.29	Tier 2: 116+ hcf	\$4.81	\$5.00	\$5.20	\$5.41	\$5.63			

1. Source: **Figures V-6, V-7, V-9, V-11, V-13** plus 3.0% for recent higher than anticipated inflationary increases (e.g. fuel, labor, cost of purchased water)

HF&H Consultants, LLC Page 3 April 19, 2022

¹ Howard Jarvis Taxpayers Association v. City of San Juan Capistrano.

II. INTRODUCTION

STUDY PURPOSE

The purpose of this study is to conduct a cost-of-service analysis that will determine rates and a rate structure that proportionally recovers the cost of providing the District's water service to its customers. Toward that end, the cost-of-service analysis determined how much revenue should be generated by each component of the rate structures so that rate-payers are charged for their proportionate shares of the cost of providing service.

STUDY PROCESS

The rate study was conducted following industry standards and practices promulgated by the American Water Works Association.² A comprehensive rate study involves the four steps shown in the adjacent diagram.

Revenue requirements were projected for a tenyear planning period based on operations, maintenance, capital expenses, debt service, and contributions to reserves. The cost-of-service analysis allocates the projected expenses among the customer classes in proportion to their use of the systems. Rates are then designed so that ratepayers are charged equitably. The impact on customers is then determined by comparing bills under the proposed rates with bills under the current rates.

REPORT ORGANIZATION

and figures.

This report documents the analysis for each of the four rate-making steps. A glossary of technical terms and acronyms is provided following the Table of Contents. An appendix contains a copy of portions of the rate model that are not included in the body of the report text as tables

REVENUE REQUIREMENT
PROJECTIONS
Determines how much rate revenue is needed

COST-OF-SERVICE ALLOCATIONS
Allocates revenue requirements to charges and to customer categories

RATE STRUCTURE DESIGN
Calculates fixed charge rates per account and variable charge rates for metered water use

CUSTOMER BILL ANALYSIS
Evaluates impacts of proposed rates on customer bills for low, average, and high use

² Principles of Water Rates, Fees, and Charges. American Water Works Association Manual M1. 2017.

III. REVENUE REQUIREMENTS

The revenue requirement analysis began with the FY 2021-22 budgeted O&M and capital expenditures for the District's General Operating Fund (Fund 01). Revenue requirements for each fiscal year were then projected over a ten-year planning period. Revenue increases needed to cover the projected revenue requirements were then determined. Over a ten-year period it is possible to derive a relatively smooth series of annual revenue increases that minimize annual fluctuations.

As previously noted, this revised rate study includes updates that reflect changed water supply conditions and certain expense projections since the December 14, 2021 rate study was prepared.

REVENUE REQUIREMENT PROJECTIONS Determines how much rate revenue is needed COST-OF-SERVICE ALLOCATIONS Allocates revenue requirements to charges and to customer categories RATE STRUCTURE DESIGN Calculates fixed charge rates per account and variable charge rates for metered water use CUSTOMER BILL ANALYSIS Evaluates impacts of proposed rates on customer bills for low, average, and high use

ASSUMPTIONS AND PROJECTIONS

Expense projections combined with contributions to reserves constitute the revenue requirements. The assumptions shown in **Table III-1** were used to project expenses through FY 2031-32.

Table III-1. Projection Assumptions

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
	Budget		Projected							
	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31
Annual Account Growth Rate		3.04%	1.72%	1.52%	1.50%	1.48%	1.46%	1.43%	1.41%	1.39%
Changes in Annual Water Demand	0.83%	-2.77%	3.53%	0.99%	1.50%	1.48%	0.11%	1.44%	1.42%	1.40%
General Inflation	Budgeted	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Salaries & Wages	Budgeted	7.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Benefits	Budgeted	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Utilites	Budgeted	50.78%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Fuel & Chemicals	Budgeted	50.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Construction Cost Inflation		2.92%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%
Interest on Fund Balance	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Annual SFR conservation reduction	Budgeted	2.56%	0.79%	0.53%	0.00%	0.00%	1.33%	0.00%	0.00%	0.00%
CCWD Estimated Annual Increase	7.00%	6.00%	5.75%	5.25%	5.25%	5.25%	5.25%	4.00%	4.00%	4.00%

Source: Model Tab 1. Assumptions & Policies

The resulting revenue requirement projections are shown in **Figure III-1** as stacked bars. In addition, revenues from current rates are shown as a dashed black line and the revenue with revenue increases as a solid black line.

Expense Projections

The detail for the line items in each expense category is shown in the model in the Appendix. The following updates to the expense projections were made in this revised rate study.

- FY 2022-23 Salaries and wages increased from 5% to 7%.
- FY 2022-23 Fuel and chemicals were increased from 3% to 50%.
- FY 2021-22 Contra Costa Water District (CCWD) wholesale water rates were increased from 6.25% to 7.00%.
- Delayed hires that will not occur in FY 2021-22.
- Greater reliance on purchased water from CCWD over well water produced by the District.
- Reduced consumption estimates due to continued drought conditions.
- Use of revenue from non-potable water sales to offset costs
- FY 2021-22 change in debt service.

Water Supply Expenses

The projected water supply expenses are the cost of purchased water from CCWD. This cost is gradually increasing during the projection period as a result of increases in the CCWD's wholesale rates.

Operating & Maintenance Expenses

The O&M expenses are projected to increase based on the escalation factors in **Table III-1**. O&M expenses include routine maintenance of the water system, chemicals used for treatment, and utilities. Of note, fire hydrant maintenance is now being performed by the District and this expense will increase from \$25,000 in FY 2021-22 to \$150,000 in FY 2022-23. Recent legislation³ specifies that costs to construct, maintain, replace or repair public fire hydrants consistent with fire codes and industry standards (including costs of water distributed through those hydrants) may be included in water system costs and water rates.

PAYGo Capital Projects

A significant portion of the District's revenue requirements comprises annual expenditures on capital improvements paid from rate revenues and capital reserves. These expenditures fund the on-going renewal and replacement of aging infrastructure. Renewal of system infrastructure is necessary in order to preserve and protect the operational readiness and service capabilities of the District's water system. A list of the projected capital projects is shown in **Table III-2**.

Because PAYGo capital project costs fluctuate from year to year, they are funded from capital reserves, which buffers the annual fluctuations in District cash flows so that revenue requirements are relatively stable. To modulate these fluctuations, contributions from the revenue requirements are made to the capital reserve based on the average of annual PAYGo capital expenses. The annual average expenditures for pay-as-you-go

³ Senate Bill 1386 (Moorlach) was passed into law in 2020 and became effective on January 1, 2021 as Statutes of 2020, Chapter 240

(PAYGo) capital projects averages \$1,915,938 in 2021 dollars over the ten-year period. **Table III-3** converts this average to an inflation-adjusted amount of \$2,192,728. The amount of these contributions is based on meeting reserve target balances, which are discussed further below.

Table III-2. Capital Improvement Program - PAYGo Projects

	PAYGo Funded Projects	10-Year Costs
1	Public Right of Way Relocations	\$1,658,866
2	RBWTP - Projects & Improvements	\$7,293,923
3	Additional RBWTP Projects	\$14,000
4	Field Equipment Purchases	\$845,000
5	Valve Replacement	\$286,597
6	Add/Replace Vehicles - Construction Trucks	\$1,197,500
7	Corpyard VFD's	\$125,000
8	R1/R2 Seismic Upgrades	\$1,200,940
9	Scada Upgrade	\$606,500
10	New Office Equipment	\$41,500
11	Corpyard Improvements	\$160,278
12	Pipeline Corrosion Testing/Repairs	\$229,278
13	Unidentified Future CIP	\$5,500,000
	Total	\$19,159,382

Source: District's 10-Year Budget Rate Model

Table III-3. Capital Improvement Program - Inflation Adjusted Costs

											Total
	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	Project Cost
PAYGo Funded Projects	\$1,720,763	\$1,952,701	\$1,508,920	\$1,436,477	\$1,536,527	\$1,802,216	\$2,182,428	\$1,629,611	\$2,715,906	\$2,673,832	\$19,159,382
ENR Multiplier	1.000	1.029	1.058	1.088	1.117	1.146	1.175	1.205	1.234	1.263	
Project Costs Escalated	\$1,720,763	\$2,009,756	\$1,597,096	\$1,562,393	\$1,716,108	\$2,065,507	\$2,565,033	\$1,962,915	\$3,350,745	\$3,376,961	\$21,927,279
Average Annual Cash-					h-Funded CIP	\$2,192,728					

General & Administrative Expenses

Like O&M expenses, General & Administrative expenses are projected to increase slightly over the projection period based on the escalation factors in **Table III-1**.

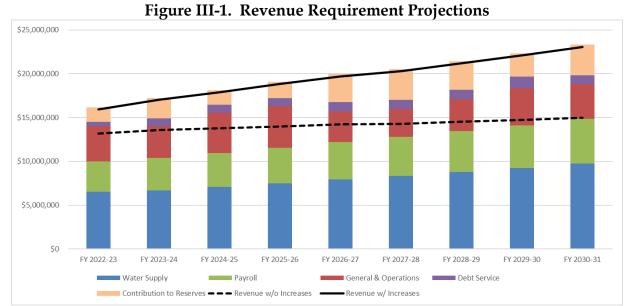
Debt Service

The District currently pays debt service on previously issued Certificates of Participation (COPs) and plans to issue new debt in the ten-year planning period to fund solar generation projects to offset greenhouse gas emissions, a new corporation/operations yard, and water mains and service lines replacements.

Contributions to Reserves

The revenue requirements include contributions to operating and capital reserves in addition to what is needed to fund the PAYGo capital projects. The operating reserve

provides working capital to meet month-to-month cash flow for O&M expenses. The capital reserve provides working capital for funding PAYGo capital projects. **Figure III-1** summarizes the projected revenue requirements.



Source: Model Table 2. Revenue Requirement; data from District's FY 2021-22 Budget.

Proposed Revenue Increases

In addition to showing the major components of the revenue requirements, **Figure III-1** also shows the revenues from current rates and revenues from rates after rate increases are added. The rates set for February 1, 2022 were set lower than intended due to a modeling error and thereby were not generating sufficient revenue. The revenue increase intended for February 1, 2022 was 17%; instead, the increase was only 7.1%. In order to achieve the full revenue increase that was intended and to also update the revenue requirement for current projections, an additional revenue increase of 12.5% is required effective June 1, 2022. With that revenue increase, there is not need to change any of the future 4% annual revenue increases that were projected in the December 14, 2021 rate study.

RESERVE FUND BALANCE

Rates are set to generate sufficient revenue to cover annual expenses and to maintain adequate reserves. The difference between annual revenue requirements and revenue from rates and other sources results in an annual surplus or deficit that either adds to or subtracts from the unrestricted reserve fund balance.

Revenue increases that are proposed in this report would maintain reserves that meet certain conditions. One component of unrestricted reserves is needed to provide adequate working capital to meet monthly cash flow needs during the year related to O&M and capital expenses.

The Operating Reserve target is set based on the lag time between when the District incurs operating expenses and when the District receives payments from ratepayers. Hence, the billing frequency is a key consideration in setting the Operating Reserve target balance. In the District's case, it bills customers on a monthly basis. A target of 25% of annual O&M expenses is recommended because of the lag time between when the District incurs costs and receives revenues from rate payers. This is consistent with the District's current reserve policy.

The District maintains a Rate Stabilization Reserve that can be used to buffer minor fluctuations in water purchases throughout the year. Furthermore, this reserve can be used to cover minor unexpected expenses. Given the size of the District's operating budget, the current target of \$1 million is viewed as sufficient for these purposes.

A proposed Capital Reserve target is based on the working capital that is needed to fund PAYGo project costs. In this case, the annual CIP average of the \$2,192,728 (which includes inflation) is used as the target balance for the Capital Reserve.

A proposed Emergency Reserve will be used to cover major repairs in the case of an emergency that severely damages District infrastructure beyond minor repairs. This reserve will allow the Distict to quickly pay for repairs without the need to borrow money on the capital markets which could delay the necessary repairs. This reserve will be initially funded at \$1 million and will be increased by \$1 million every year until it reaches \$5 million.

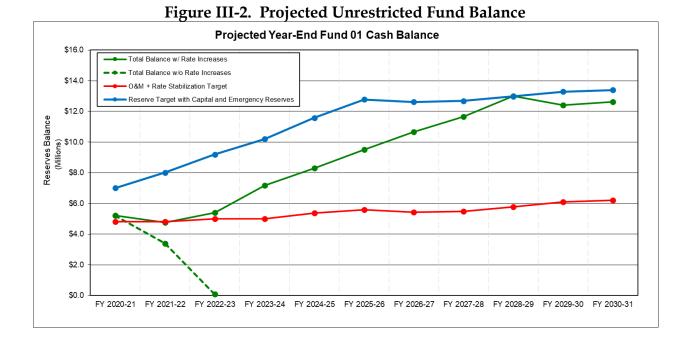
A comparison is made in **Table III-4** of the District's current target reserve balances with the proposed target balances. We regard these targets as minimums. The fund balance may exceed the targets from time to time but should not be allowed to continue to grow in excess of foreseeable needs.

Table III-4. Current and Proposed Target Reserve Balances

Current Targets	Target
Operations & Maintenance	3 Months O&M Costs
Rate Stabilization	\$1 million
HF&H Recommended	Target
Operations & Maintenance	3 Months O&M Costs
Operations & Maintenance Rate Stabilization	3 Months O&M Costs \$1 million
'	
Rate Stabilization	\$1 million

The projected fund balance over the planning period is graphed in **Figure III-2**. The solid green line represents the fund balance with the proposed annual revenue increases. The dashed green line shows the fund balance without revenue increases. Without revenue increases, the fund balance would drop off sharply beginning in FY 2021-22 because current revenues are unable to support the required capital improvement program.

Figure III-2 also shows the current target balance for the District in red and the proposed target balance in blue. It can be seen that the current fund balance is less than the proposed fund balance, but above the current target. With the proposed revenue increases, the fund balance is projected to gradually climbing until it reaches the target balance in FY 2028-29. Higher revenue increases could reach the recommended target balance earlier. We regard the revenue increases as minimal because of the duration it takes to achieve the recommended target balance.

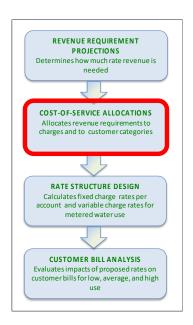


HF&H Consultants, LLC Page 10 April 19, 2022

IV. COST-OF-SERVICE ANALYSIS

The revenue requirement analysis establishes how much revenue is required from rates to cover the cost of service. The next step in the analysis is determining the cost of the services provided by the District to its customers, which will be charged through its rates. Cost-of-service analysis is used to derive rates that proportionally allocate the cost of service between the monthly services charge and the water usage charge and further allocated the consumption charge costs between the proposed customer classes and among customers in each proposed class.

This revised rate study bases the cost-of-service allocations on the revised revenue requirement. As a result, there is a slight adjustment of the cost of service between the service charge and water charge components of the rates, which is reflected in slight changes in the rates themselves.



ANALYTICAL APPROACH

The District provides demand services and customer services to water customers. Demand services include the costs related to meeting various levels of demand. Customer services include the costs related to customer accounts and the capacity that customers require.

The cost-of-service analysis performed in this study follows a procedure that has been long established by the American Water Works Association (AWWA),⁴ which is referred to as the "base/extra capacity method." The analytical procedure contains the following steps:

- 1. **Cost classification** Costs in the FY 2021-22 revenue requirement are classified into the service categories related to providing for customer demands and for customer service. FY 2021-22 costs are used for the cost-of-service analysis because they are the most recent budget year.
- Cost allocation The classified costs are allocated to the functions associated with each service. For demand services, the functions are levels of service that range from base, non-seasonal demands to the peak hour demands that represent the

 $^{^4}$ Principles of Water Rates, Fees, and Charges. Manual M1. American Water Works Association.

highest level of service. For customer services, the functions are customer accounts and customer capacity.

The criteria for classifying major costs are summarized as follows:

Demand services - the basis for the consumption charge rates.

- Average day average daily demand: facilities that do not provide for peak demands; additional water supplies.
- Maximum day peak demand on the maximum day: transmission mains from the source of supply to distribution storage reservoirs; booster pumps.
- Maximum hour peak hour demand on the maximum day: a portion of distribution storage reservoirs and distribution mains to customers; hydrants, conservation programs.

Customer services - the basis for the service charge.

- Accounts: meter reading, billing, accounting, customer service.
- Capacity: a portion of distribution storage reservoirs and transportation and distribution mains to customers.

Composite services - these costs are recovered from both consumption and service charges.

 Indirect allocations for costs that are not directly related to either the demand or customer service functions: personnel, overhead, non-operating revenue.

Working with District staff, the individual line items in the revenue requirements were classified into either the demand, customer, or composite services categories. Composite costs are allocated based on a composite of the direct allocations to the demand and customer service categories.

ALLOCATION FACTORS

Within the demand service function, allocations are made to varying levels of service. With these allocations, rates can be designed to proportionately charge customers based on their demands at each level of service.

Demand Services

The same flows used in the previous cost-of-service analysis were used in this revised rate study.

Average Day Demand

Average day demand represents demand that includes only an average level of peaking. The average day demand was derived for each customer class from the District's customer billing data for FY 2020-21.

Maximum Day Demand

Maximum day demand includes average day demand plus peak day demand in the irrigation season. The District has daily readings for each customer class but not by individual meter. Hence, a maximum day demand can be established for each customer class.

Maximum Hour Demand

Maximum hour demand represents the maximum hour demand on the maximum day. The District has hourly readings for each customer class but not by individual meter. Hence, a maximum hour demand can be established for each customer class.

Figure IV-1 is a graphical depiction of the capacities of pipelines that correspond to each demand service level. This depiction is intended to exemplify the impact that peak levels of demand have on the design of facilities. The concentric circles are pipeline diameters proportionate to the levels of demand beginning with average day demand, which is demand when peaking is minimal. Maximum day demand requires a pipeline that is 1.55 times the capacity of average, non-peaking demand. To meet the highest level of service required by maximum hour demand, the pipeline capacity must be 2.9 times greater than the average demand. The larger capacities that are required to meet the higher levels of service require expenditures that the cost-of-service analysis allocates proportionately to those who require the service.

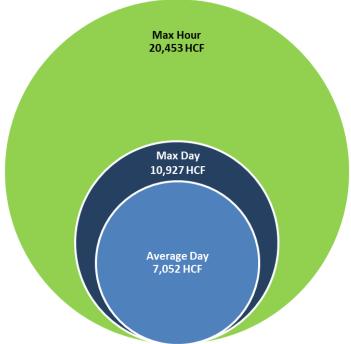
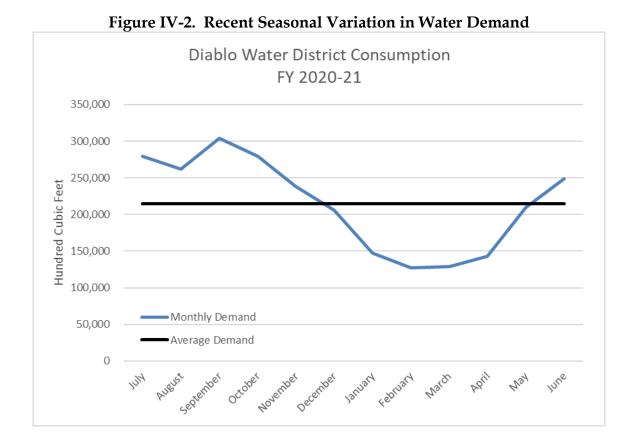


Figure IV-1. Pipeline Capacity Needed For Demand Service Levels

Note: Pipeline diameters drawn to relative scale

Figure IV-2 was prepared to further underscore the nature of peaking in the District from winter to summer.



Allocation Factors

The flows associated with the demand service levels for each proposed customer class and for the system as a whole are shown in **Table IV-1**. We note that the flows for the customer classes are coincident flows. Coincident flows represent the combined, total flow for which capacity is required at a given level of demand. It may be that one class' peak may not be highest during the system-wide peak. That is inconsequential because facilities are not designed for noncoincident peaks. Hence, it would be illogical to use noncoincident flows to allocate costs that correspond to facilities that are sized for coincident peaks.

Table IV-1. Service Level Demands and Load Factors

		Levels of Demand (hcf)					
		Average	Average Maximum				
		Day	Day	Hour			
		a	b	С			
1	Demand by Customer Category (hcf)						
2	Residential - SF	5,688	8,485	17,829			
3	Residential - MF	194	198	180			
4	Non Residential	277	490	221			
5	Hydrant	211	400	600			
6	Irrigation	682	1,354	1,622			
7	Total	7,052	10,927	20,453			
8	Ratio of Flows to Average Day						
9	Residential - SF	1.00	1.49	3.13			
10	Residential - MF	1.00	1.02	0.93			
11	Non Residential	1.00	1.77	0.80			
12	Hydrant	1.00	1.89	2.84			
13	Irrigation	1.00	1.98	2.38			
14	Total	1.00	1.55	2.90			
15	_						
16	Level of Service	7,052	10,927	20,453			
17	Average Day Demand	7,052	7,052	7,052			
18	Ratio of Level of Service to Average Day	1.00	1.55	2.90			

Source: Data source as described in text.

Table IV-2 shows the system-wide allocation percentages corresponding to the flows and load factors in **Table IV-1**. Note that costs that are classified, for example, as maximum hour are allocated to both average day and maximum day and not to maximum hour only. This is done because the capacity provided by maximum hour facilities also provides capacity to meet average day and maximum day demands, as well.

Table IV-2. Service Level Allocation Factors

		Demand Service Levels						
		Load	Average	Average Maximum				
	Allocation Basis	Factors	Day	Day	Hour	Totals		
		а	b	С	d	e		
1	Average Day	1.00	1.00	1.00		1.00		
2	Allocation %		100%			100%		
3								
4	Maximum Day	1.55	1.00	0.55		1.55		
5	Allocation %		64.5%	35.5%		100%		
6								
7	Maximum Hour	2.90	1.00	0.55	1.35	2.90		
8	Allocation %		34.5%	18.9%	46.6%	100%		

The allocation factors for costs classified as Customer Service are not related to levels of demand and, instead, are allocated either as 100% customer accounts or 100% customer capacity.

Table IV-3 summarizes the allocation factors for the demand and customer service costs. In addition, it shows the composite allocations. The O&M, Capital, and Expense composite allocation factors are based on subtotals of the O&M, Capital, and total costs that were directly allocated to either the demand or customer service categories. (These subtotals for the composite allocations are shown in **Tables IV-4**, **IV-5**, and **IV-6**.)

Table IV-3. Summary of Allocation Factors

		De	Demand Services Customer Services				
		Average	Maximum	Maximum		Service	
	System-Wide Cost Allocation Factors	Day	Day	Hour	Accounts	Charge	Total
		a	b	С	d	е	f
1	<u>Demand Services</u>						
2	Average Day	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%
3	Max Day	64.5%	35.5%	0.0%	0.0%	0.0%	100.0%
4	Max Hour	34.5%	18.9%	46.6%	0.0%	0.0%	100.0%
5	<u>Customer Services</u>						
6	Capacity	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
7	Accounts	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
8	Composite Allocations						
9	O&M Composite	85.1%	12.9%	0.4%	4.1%	-2.4%	100.0%
10	CIP Composite	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%
11	Exp Composite	63.9%	9.7%	0.3%	3.0%	23.1%	100.0%

Source: Data source as described in the text

COST-OF-SERVICE ALLOCATIONS

O&M, Capital, and Composite Allocations

Tables IV-4, IV-5, and **IV-6** show the revised FY 2021-22 revenue requirement allocated into the demand and customer services categories. Each line item was classified with the assistance of District staff according to the associated function. The allocation factors that are summarized in **Table IV-3** allocate the costs across the services based on the cost classification in column b.

IV. Cost-of-Service Analysis

Table IV-4. Direct Allocations - O&M Expenses

Maintenance Backflow S48,000 Accounts S0 S0 S48,000 S5		1401017	Table IV-4. Direct Milocations		- Odivi Experises				
Direct O&M S								Custome	r Services
Direct O&M 2 Operations and Maintenance 3 Direct O&M 2 Operations and Maintenance 3 State 3					_				
Direct O&M Control of Section Control of Sect			•		_				
2 Departations and Maintenance			а	b	С	d	е	t	g
Maintenance T&D	1-								
Maintenance Reaction	ı	•	40-0-00		4	4.0	4.0	4.0	4.0
Semeral Operating Semeral Op	ı								\$0
Maintenance Blending	ı							. ,	\$0
7 Maintenance Glen Park Well \$10,260 Max Day \$6,622 \$3,638 \$0	-				. ,	. ,			\$0
Maintenance Stoncercek Well		e e e e e e e e e e e e e e e e e e e		•	. ,				\$0
Maintenance Delta Coves	l								\$0
10 Meter Samples \$80,000 Average Day \$80,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	-			Max Day					\$0
11 Transmission and Distribution	-			Average Day					\$0
12 Chemicals Glen Park Well \$7,210 Max Day \$4,653 \$2,557 \$90 \$90 \$5 \$1 3 Chemicals Blending Facility \$25,100 Max Day \$16,200 \$9,00 \$90 \$90 \$1 4 Chemicals Stonecreek Well \$5,000 Max Day \$3,227 \$1,773 \$90 \$90 \$90 \$1 5 Chemicals Deta Cowes \$7,000 Max Day \$3,227 \$1,773 \$90 \$90 \$90 \$90 \$1 5 Chemicals Deta Cowes \$7,000 Max Day \$3,227 \$1,773 \$90 \$90 \$90 \$90 \$90 \$1 5 Chemicals Deta Cowes \$7,000 Max Day \$3,227 \$1,773 \$90 \$90 \$90 \$90 \$90 \$1 6 Chemical Departing Blending \$36,450 Max Day \$23,255 \$1,925 \$90	10	Water Samples	\$80,000	Average Day	\$80,000	\$0	\$0	\$0	\$0
13 Chemicals Blending Facility	11	Transmission and Distribution							
14 Chemicals Stonecreek Welf \$5,000 Max Day \$3,227 \$1,773 \$0 \$0 \$5 \$15	12	Chemicals Glen Park Well	\$7,210	Max Day	\$4,653	\$2,557	\$0	\$0	\$0
15 Chemicals Delta Coves	13	Chemicals Blending Facility	\$25,100	Max Day	\$16,200	\$8,900	\$0	\$0	\$0
16 General Operating -T&D	14	Chemicals Stonecreek Well	\$5,000	Max Day	\$3,227	\$1,773	\$0	\$0	\$0
17 General Operating Blending \$36,450 Max Day \$23,525 \$11,925 \$0 \$0 \$0 \$1	15	Chemicals Delta Coves	\$7,000	Average Day	\$7,000	\$0	\$0	\$0	\$0
17 General Operating Blending \$36,450 Max Day \$23,525 \$1,925 \$9,0 \$0 \$5 18 General Operating Stonecreek Well \$3,000 Max Day \$1,936 \$1,064 \$0 \$0 \$0 \$5 19 General Operating Belta Coves \$1,000 Awarage Day \$1,000 \$0 \$0 \$0 \$0 \$0 \$0 20 General Operating Belta Coves \$1,000 Awarage Day \$1,000 \$0 \$0 \$0 \$0 \$0 \$0 21 Water Purchases - Source of Supply CCWD \$2 22 Service Charge \$93 Capacity \$0 \$0 \$0 \$0 \$0 \$0 \$0 23 Demand Charge \$583,453 Max Day \$441,112 \$242,341 \$0 \$0 \$0 \$0 \$0 \$0 24 Volumetric Charge \$3,606,119 Average Day \$3,606,119 \$0 \$0 \$0 \$0 \$0 \$0 25 Additional Water Purchases from CCWD \$50,000 \$0 \$0 \$0 \$0 \$0 26 Water Treatment and Maintenance - RBWTP O&M \$1,286,016 Max Day \$1,217,265 \$668,751 \$0 \$0 \$0 \$0 27 Randall Bold Water Treatment Plant O&M \$1,286,016 Max Day \$1,217,265 \$668,751 \$0 \$0 \$0 \$0 28 Other Expenses \$0 Average Day \$0 \$0 \$0 \$0 \$0 29 Tier Hydrant Maintanence \$250,000 Accounts \$0 \$0 \$0 \$0 \$0 \$0 30 Groundwater Sustainability Expenses \$0 Average Day \$0 \$0 \$0 \$0 \$0 \$0 31 Fire Hydrant Maintanence \$250,000 Accounts \$0 \$0 \$0 \$0 \$0 \$0 32 Water Conservation Program \$250,000 Max Hour \$8,620 \$4,736 \$11,644 \$0 \$0 \$0 33 Finance \$185,000 Accounts \$0 \$0 \$0 \$0 \$0 \$0 \$0 34 Customer Service \$345,000 Accounts \$0 \$0 \$0 \$0 \$0 \$0 \$0 35 Finance \$185,000 Accounts \$0 \$0 \$0 \$0 \$0 \$0 36 Check Valve Maintenance \$185,000 Accounts \$0 \$0 \$0 \$0 \$0 \$0 30 Capacity \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	16	General Operating - T&D	\$178,030	Average Day	\$178,030	\$0	\$0	\$0	\$0
18 General Operating Glen Park Well \$3,000 Max Day \$1,936 \$1,064 \$0 \$0 \$5 \$5 \$5 \$6 \$6 \$6 \$6 \$6	17	General Operating Blending	\$36,450		\$23,525	\$12,925	\$0	\$0	\$0
19 General Operating Stonecreek Well \$3,000 Max Day \$1,936 \$1,064 \$0 \$0 \$5 \$5 \$6 \$6 \$6 \$6 \$6 \$6	ı			•					\$0
20 General Operating Delta Coves \$1,000 Average Day \$1,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	ı								\$0
21 Water Purchases - Source of Supply CCWD Spanning Spanni	l			•					\$0
Service Charge	1 -		\$1,000	, werage bay	\$1,000	70	Ų.	Ų.	Ŷ.
23 Demand Charge S683,453 Max Day S441,112 \$242,341 \$0 \$0 \$0 \$2 \$2 \$2 \$2 \$3 \$3 \$3 \$3	ı	• • •	\$93	Canacity	\$0	\$0	\$0	\$0	\$93
24 Volumetric Charge \$3,606,119 Average Day \$3,606,119 \$0 \$0 \$0 \$0 \$2 \$2 \$2 Additional Water Purchases from CCWD \$500,000 Average Day \$500,000 \$0	l	<u> </u>	·						\$0
25 Additional Water Purchases from CCWD \$500,000 Average Day \$500,000 \$0 \$0 \$0 \$0 \$0 \$0 \$	_					. ,			\$0
26 Water Treatment and Maintenance - RBWTP 0&M 27 Randall Bold Water Treatment Plant 0&M 3 Stage 186,016 3 Other Expenses 29 Pipeline Corrosion Testing/Repairs 30 Groundwater Sustainability Expenses 30 Groundwater Sustainability Expenses 30 Groundwater Sustainability Expenses 31 Fire Hydrant Maintenance 325,000 32 Water Conservation Program 325,000 33 Finance 3185,000 34 Customer Service 35 Non-Operating Revenue 36 Check Valve Maintenance 3185,000 36 Capacity 37 Check Valve Maintenance 38 Destroyed Lock Charges 38 Destroyed Lock Charges 39 (\$10,000) 30 Gapacity 30 Gapacity 30 Stage 31 Fine Hydrant Maintenance 3185,000 32 Water Conservation Program 32 Water Conservation Program 32 Stage 32 Water Conservation Program 32 Stage 33 Fine Hydrant Maintenance 3185,000 32 Stage 34 Customer Service 34 Customer Service 35 Non-Operating Revenue 36 Check Valve Maintenance 37 Check Valve Maintenance 38 Destroyed Lock Charges 39 Capacity 30 Stage 30	l								\$0 \$0
27 Randall Bold Water Treatment Plant O&M \$1,886,016 Max Day \$1,217,265 \$668,751 \$0 \$0 \$5 \$2 \$2 \$2 \$2 \$2 \$2 \$2	_		\$500,000	Average Day	\$500,000	\$ 0	ŞU	ŞU	ŞU
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Pipeline Corrosion Testing/Repairs \$20,000 Average Day \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0	ı		\$1,000,010	IVIAX Day	\$1,217,205	\$000,751	ŞU	ŞU	ŞU
30 Groundwater Sustainability Expenses \$0 Average Day \$0 \$0 \$0 \$0 \$25,000 \$2	l	•	ć20.000		620.000	40	40	40	40
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Signate Sign	l	•						. ,	\$0
34 Customer Service \$46,000 Accounts \$0 \$0 \$0 \$0 \$46,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	ı								\$0
35 Non-Operating Revenue								. ,	\$0
36 Check Valve Maintenance (\$170,000) Capacity \$0 \$0 \$0 \$0 \$170,000	-		\$46,000	Accounts	\$0	\$0	\$0	\$46,000	\$0
37 Check Valve Installation (\$2,600) Capacity \$0 \$0 \$0 \$0 \$2,600 \$2,600 \$0 \$0 \$0 \$0 \$2,600 \$2,192,72 \$0 \$0 \$0 \$0	l	. •							
38 Destroyed Lock Charges \$ \$0 Capacity \$ \$0 \$0 \$0 \$0 \$0 \$39 \$39 Tampering Charges \$ \$10,000 Capacity \$ \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	ı								(\$170,000)
39 Tampering Charges (\$10,000) Capacity \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	37	Check Valve Installation	(\$2,600)	Capacity	\$0	\$0	\$0	\$0	(\$2,600)
40 Meter Repairs (\$530) Capacity \$0 \$0 \$0 \$0 \$0 \$50 \$50 \$50 \$50 \$50 \$50	ı	, 9		Capacity					\$0
41 Hydrant Meter Replacement (\$3,183) Max Hour (\$1,097) (\$603) (\$1,482) \$0 \$0 \$0 \$2 \$4 \$0 \$2,192,72 \$0 \$0 \$0 \$0 \$0 \$0 \$2,192,72 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2,192,72 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	39	Tampering Charges	(\$10,000)	Capacity	\$0	\$0	\$0	\$0	(\$10,000)
42 Delta Coves Property Tax Income (\$59,883) Average Day (\$59,883) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$289,095 \$289,095 Capacity \$0 \$0 \$0 \$0 \$289,095 \$0 \$0 \$0 \$0 \$289,095 \$0 \$0 \$0 \$0 \$289,095 \$0 \$0 \$0 \$0 \$0 \$289,095 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$289,095 \$0 \$0 \$0 \$0 \$0 \$0 \$289,095 \$0 <	40	Meter Repairs	(\$530)	Capacity	\$0	\$0	\$0	\$0	(\$530)
43 Total Allocable O&M	41	Hydrant Meter Replacement	(\$3,183)	Max Hour	(\$1,097)	(\$603)	(\$1,482)	\$0	\$0
44 O&M Composite 85.1% 12.9% 0.4% 4.1% -2.4 45 46 Debt Service \$289,095 Capacity \$0 \$0 \$0 \$0 \$0 \$289,09 47 48 Capital Expenses (PayGo) \$2,192,728 CIP Composite \$0 \$0 \$0 \$0 \$0 \$2,192,72 50 Subtotal - O&M, Debt Service, and Capital \$9,968,367 \$6,371,747 \$964,577 \$29,258 \$304,000 \$2,298,78 51 Work of Consumption 86.5% 13.1% 0.4% 52 Expense Composite \$0 \$0.9% 9.7% 0.3% 3.0% 23.1	42	Delta Coves Property Tax Income	(\$59,883)	Average Day	(\$59,883)	\$0	\$0	\$0	\$0
45	43	Total Allocable O&M	\$7,486,544		\$6,371,747	\$964,577	\$29,258	\$304,000	(\$183,037)
45	44	O&M Composite			85.1%	12.9%	0.4%	4.1%	-2.4%
46 Debt Service \$289,095 Capacity \$0 \$0 \$0 \$0 \$289,095	ı	•							·
47	l		\$289.095	Capacity	\$0	\$0	\$0	\$0	\$289,095
48 Capital Expenses (PayGo) \$2,192,728 CIP Composite \$0 \$0 \$0 \$0 \$2,192,728 CIP Composite \$0 \$0 \$0 \$0 \$2,192,728 CIP Composite \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	ı		,						,
49 50 Subtotal - O&M, Debt Service, and Capital \$9,968,367 \$6,371,747 \$964,577 \$29,258 \$304,000 \$2,298,78 51	ı	Capital Expenses (PavGo)	\$2.192.728	CIP Composite	śn	ŚO	Śn	\$0	\$2,192,728
50 Subtotal - O&M, Debt Service, and Capital \$9,968,367 \$6,371,747 \$964,577 \$29,258 \$304,000 \$2,298,78 51 % of Consumption 86.5% 13.1% 0.4% 52 Expense Composite % of total 63.9% 9.7% 0.3% 3.0% 23.1	l		<i>\$2,132,720</i>	2.7 composite		Ç	70	Ç	72,232,,20
51 % of Consumption 86.5% 13.1% 0.4% 52 Expense Composite % of total 63.9% 9.7% 0.3% 3.0% 23.1	ı		\$9 968 367		\$6.371 747	\$964 577	\$29 258	\$304 000	\$2,298 786
52 Expense Composite % of total 63.9% 9.7% 0.3% 3.0% 23.1	l		Ç5,505,507	% of Consumption	. ,			200.,000	72,230,.00
	-	Expense Composite		•				3.0%	23.1%
153	53	·		70 0j total	03.570	3.770	0.570	3.070	23.1/0

Table IV-5 shows the allocation of the capital expenses. **Table IV-5** also includes the calculation of the capital composite allocation percentages that are used in **Table IV-6** for the CIP PAYGo expense.

Table IV-5. Direct Allocations - Capital Expenses

			Allocation	Average	Maximum	Maximum		Service
	Project	Total Cost	Factor	Day	Day	Hour	Accounts	Charge
		а	b	С	d	е	f	g
1	Public Right of Way Relocations	\$1,658,866	Capacity	\$0	\$0	\$0	\$0	\$1,658,866
2	RBWTP - Projects & Improvements	\$7,293,923	Capacity	\$0	\$0	\$0	\$0	\$7,293,923
3	Additional RBWTP Projects	\$14,000	Capacity	\$0	\$0	\$0	\$0	\$14,000
4	Field Equipment Purchases	\$845,000	Capacity	\$0	\$0	\$0	\$0	\$845,000
5	Valve Replacement	\$286,597	Capacity	\$0	\$0	\$0	\$0	\$286,597
6	Add/Replace Vehicles - Construction Trucks	\$1,197,500	Capacity	\$0	\$0	\$0	\$0	\$1,197,500
7	Corpyard VFD's	\$125,000	Capacity	\$0	\$0	\$0	\$0	\$125,000
8	R1/R2 Seismic Upgrades	\$1,200,940	Capacity	\$0	\$0	\$0	\$0	\$1,200,940
9	Scada Upgrade	\$606,500	Capacity	\$0	\$0	\$0	\$0	\$606,500
10	New Office Equipment	\$41,500	Capacity	\$0	\$0	\$0	\$0	\$41,500
11	. Radio Read Upgrade	\$0	Capacity	\$0	\$0	\$0	\$0	\$0
12	Corpyard Improvements	\$160,278	Capacity	\$0	\$0	\$0	\$0	\$160,278
13	Pipeline Corrosion Testing/Repairs	\$229,278	Capacity	\$0	\$0	\$0	\$0	\$229,278
14	Maint T&D	\$0	Capacity	\$0	\$0	\$0	\$0	\$0
15	Unidentified Future CIP	\$5,500,000	Capacity	\$0	\$0	\$0	\$0	\$5,500,000
16	·	\$19,159,382	-	\$0	\$0	\$0	\$0	\$19,159,382
17				0.00%	0.00%	0.00%	0.00%	100.00%

Table IV-6 shows the allocation of the O&M composite expenses, the CIP composite expense⁵, and non-operating revenues. **Table IV-6** also shows the distribution of the revenue requirement between the demand services and customer service categories. The demand service costs are recovered through the consumption charges and the customer accounts and capacity costs are combined for determining the service charges.

We note that the resulting allocations divide the revenue requirement between the demand services and customer services. Revenue from customer services is billed through the service charges, which are fixed based on the size of the service connection; they do not vary with demand. The analysis indicates that 22.7% of the revenue requirement is attributed to the service charges, which is a decrease from the current 24.5%.

⁵ The CIP composite expense is the ten-year annual average of PAYGo projects (taking into account projected inflation).

IV. Cost-of-Service Analysis

Table IV-6. Composite and Non-Operating Revenue Allocations

	Table IV-0. Co	inposite una	Tion op				Customer Services		
					emand Service		Customer	Services	
		FY 2021-22	Allocation	Average	Maximum	Maximum			
		Revenue Requirement	Factor	Day	Day	Hour	Accounts	Capacity	
1	Commente Allocations	a	b	С	d	е	f	g	
1	Composite Allocations								
2	Operations & Maintenance	405.000		404.077	40.004	400	44.045	(4544)	
3	Maintenance Corpyard	\$25,000	O&M Composite	\$21,277	\$3,221	\$98	\$1,015	(\$611)	
4	General Operating Corpyard	\$40,950	O&M Composite	\$34,852	\$5,276	\$160	\$1,663	(\$1,001)	
5	Telephone Services for Field	\$8,450	O&M Composite	\$7,192	\$1,089	\$33	\$343	(\$207)	
6	Utilities for Field	\$172,450	O&M Composite	\$146,771	\$22,219	\$674	\$7,003	(\$4,216)	
7	Automotive Fuel, Maintenance, Misc	\$87,000	O&M Composite	\$74,045	\$11,209	\$340	\$3,533	(\$2,127)	
8	Other	4		4	4	4			
9	Corpyard Improvements	\$13,545	O&M Composite	\$11,528	\$1,745	\$53	\$550	(\$331)	
10	Additional Staff	\$0	O&M Composite	\$0	\$0	\$0	\$0	\$0	
11	Administrative and General	\$162,575	O&M Composite	\$138,366	\$20,946	\$635	\$6,602	(\$3,975)	
12	Board of Directors	\$27,562	O&M Composite	\$23,458	\$3,551	\$108	\$1,119	(\$674)	
13	Office	\$223,870	O&M Composite	\$190,534	\$28,844	\$875	\$9,091	(\$5,473)	
14	Insurance	\$85,000	O&M Composite	\$72,343	\$10,952	\$332	\$3,452	(\$2,078)	
15	Legal Expenses	\$39,000	O&M Composite	\$33,193	\$5,025	\$152	\$1,584	(\$954)	
16	Training	\$42,800	O&M Composite	\$36,427	\$5,514	\$167	\$1,738	(\$1,046)	
17	Total Composite Expenses	\$928,202		\$789,986	\$119,591	\$3,627	\$37,691	(\$22,693)	
18									
19	Subtotal O&M, Capital, Non-Operating	\$10,896,569		\$7,161,733	\$1,084,168	\$32,885	\$341,691	\$2,276,092	
20	Expense Allocation			65.7%	9.9%	0.3%	3.1%	20.9%	
21									
22	Payroll - Salaries/Benefits/Taxes	\$3,179,691	Exp Composite	\$2,032,448	\$307,679	\$9,333	\$96,969	\$733,262	
23	Engineering								
24	Engineering	\$215,000	Exp Composite	\$137,427	\$20,804	\$631	\$6,557	\$49,581	
25	Consulting	\$185,380	Exp Composite	\$118,494	\$17,938	\$544	\$5,653	\$42,750	
26	Non-Operating Revenue								
27	Late Charges	(\$65,000)	Exp Composite	(\$41,548)	(\$6,290)	(\$191)	(\$1,982)	(\$14,990)	
28	Trip Charges	(\$26,523)	Exp Composite	(\$16,953)	(\$2,566)	(\$78)	(\$809)	(\$6,116)	
29	Call-Out Charges	(\$2,500)	Exp Composite	(\$1,598)	(\$242)	(\$7)	(\$76)	(\$577)	
30	Returned Item Charges	(\$2,500)	Exp Composite	(\$1,598)	(\$242)	(\$7)	(\$76)	(\$577)	
31	Hydrant Meter Repairs	\$0	Accounts	\$0	\$0	\$0	\$0	\$0	
32	Field Service Charges	(\$1,591)	Exp Composite	(\$1,017)	(\$154)	(\$5)	(\$49)	(\$367)	
33	Bad Debt Recovery	(\$2,652)	Exp Composite	(\$1,695)	(\$257)	(\$8)	(\$81)	(\$612)	
34	Retirees Health Benefits - OPEB	(\$65,376)	Exp Composite	(\$41,788)	(\$6,326)	(\$192)	(\$1,994)	(\$15,076)	
35	Other Income	(\$25,750)	Exp Composite	(\$16,459)	(\$2,492)	(\$76)	(\$785)	(\$5,938)	
36	Rental Income	(\$127,308)	Exp Composite	(\$81,375)	(\$12,319)	(\$374)	(\$3,882)	(\$29,358)	
37	Southpark Well - M24	(\$5,517)	Exp Composite	(\$3,526)	(\$534)	(\$16)	(\$168)	(\$1,272)	
38	Knightsen Well - M25	(\$5,252)	Exp Composite	(\$3,357)	(\$508)	(\$15)	(\$160)	(\$1,211)	
39	Willow Park Marina Well - M27	(\$10,821)	Exp Composite	(\$6,917)	(\$1,047)	(\$32)	(\$330)	(\$2,495)	
40	Reimbursement from Developers	(\$400,000)	Exp Composite	(\$255,679)	(\$38,706)	(\$1,174)	(\$12,199)	(\$92,243)	
41	Total Non-Operating	\$2,839,281	zap composite	\$1,814,859	\$274,740	\$8,333	\$86,588	\$654,761	
42	rotal Holl-Operating	72,033,201		71,014,033	72,7,140	<i>ϕ</i> 0,333	200,500	703-,,,01	
43	Transfers to/(from) Reserves	(\$217,540)	Exp Composite	(\$139,051)	(\$21,050)	(\$638)	(\$6,634)	(\$50,166)	
44	Emergency Reserve - Tier 1	\$1,000,000	Average Day	\$1,000,000	\$0	(\$038) \$0	\$0	(\$30,100) \$0	
45	amendancy reserve Tier I	71,000,000	Average Day	Q1,000,000	ÛÇ	JU.	Ų	50	
46	Total Revenue Requirement	\$14,518,310		\$9,837,540	\$1,337,858	\$40,580	\$421,645	\$2,880,687	
47	Total Nevenue Nequirement	714,310,310		∪ ب در <i>ا</i> دی,دډ	71,337,030	\$11,215,978	\$421,645	\$2,880,687	
48				% of rouse	o roquiroment	77.3%	J441,045	\$2,880,687 22.7%	
				% or revenu	e requirement		C		
49					consumpti	on Charge COS	Servi	ce Charge COS	

Fixed and Variable Revenues and Costs

Revenue from the service charges prior to February 1, 2022 was 24.5% of the combined rate revenue. Receiving 24.5% of revenue from fixed charges is within a reasonable range compared with industry averages, which are typically at least 20% in California with a trend toward over 30% as a means of improving revenue stability. The revised cost-of-service analysis decreased the service charge revenue to 22.7%, which is not a significant decrease.

Allocation Comparison

Table IV-7 compares the annual revenue from the rates adopted February 1, 2021 with the annual revenue from the revised cost-of-service rates. The comparison shows that the cost-of-service analysis shifts revenue from the service charges to the consumption charges.

Table IV-7. Comparison of Customer Class Allocations

		Revenue at	Current	Revis	ed	Differe	nce
	Components of Rate Structure	Rates (as of	2/1/2021)	Cost-of-Service		COS Minus Current	
		а	b	С	d	e	f
1	Water Charge Revenue	\$9,367,728	75.5%	\$11,215,978	77.3%	\$1,848,251	19.7%
2	Service Charge Revenue	\$3,041,084	24.5%	\$3,302,331	22.7%	\$261,247	8.6%
3	Total	\$12,408,812	100.0%	\$14,518,310	100.0%	\$2,109,498	17.0%
4							
5	Water Charge Revenue						
6	Residential	\$7,486,455	79.9%	\$9,008,101	80.3%	\$1,521,646	20.3%
7	Multi Family	\$268,234	2.9%	\$295,234	2.6%	\$27,000	10.1%
8	Non Residential	\$379,879	4.1%	\$446,946	4.0%	\$67,067	17.7%
9	Irrigation	\$940,806	10.0%	\$1,120,553	10.0%	\$179,747	19.1%
10	Hydrant	\$292,354	3.1%	\$345,145	3.1%	\$52,791	18.1%
11		\$9,367,728	100.0%	\$11,215,978	100.0%	\$1,848,251	19.7%

CONSUMPTION CHARGE COST ALLOCATIONS

As previously discussed, the customer service function is independent of the customer classes. The demand service function requires further allocations to customer classes in deriving rates. **Table IV-8** derives the cost of service for each of the District's proposed customer classes. The allocation reflects each class' proportionate shares of the three demand service levels (i.e., average day, maximum day, and maximum hour) because they share common facilities. Moveover, the allocation of costs to the various proposed customers classes needs to be tracked by demand service level for purposes of calculating the tiered rates in **Section V** below.

IV. Cost-of-Service Analysis

Table IV-8. Consumption Charge Cost Allocations By Customer Class

	Tuble 14 o. Consumption	Average	Maximum	Maximum	
	Consumption Charge Cost of Service	Day	Day	Hour	Total
		a	b	С	d
1	Operations & Maintenance	\$7,161,733	\$1,084,168	\$32,885	\$8,278,786
2	Debt Service	\$0	\$0	\$0	\$0
3	Capital Expenses (PayGo)	\$0	\$0	\$0	\$0
4	Non-Operating Revenue	\$1,814,859	\$274,740	\$8,333	\$2,097,932
5	Transfers to/(from) Reserves	\$860,949	(\$21,050)	(\$638)	\$839,261
6	Total Consumption Charge COS	\$9,837,540	\$1,337,858	\$40,580	\$11,215,978
7					
8	Units of Service (hcf)				
9	Residential - SF	5,688	8,485	17,829	
10	Residential - MF	194	198	180	
11	Non Residential	277	490	221	
12	Hydrant	211	400	600	
13	Irrigation	682	1,354	1,622	
14		7,052	10,927	20,453	
15	Proportional Allocation Factors				
16	Residential - SF	80.65%	77.65%	87.17%	
17	Residential - MF	2.75%	1.82%	0.88%	
18	Non Residential	3.93%	4.48%	1.08%	
19	Hydrant	3.00%	3.66%	2.93%	
20	Irrigation	9.67%	12.39%	7.93%	
21		100.00%	100.00%	100.00%	
22					
23	Residential - Single Family	\$7,933,835	\$1,038,891	\$35,375	\$9,008,101
24	Residential - Multi Family	\$270,580	\$24,295	\$358	\$295,234
25	Non Residential	\$386,552	\$59,956	\$438	\$446,946
26	Hydrant	\$294,979	\$48,976	\$1,190	\$345,145
27	Irrigation	\$951,595	\$165,739	\$3,218	\$1,120,553
28	Grand Total Consumption Charge COS	\$9,837,540	\$1,337,858	\$40,580	\$11,215,978

V. RATE DESIGN

This section discusses the derivation of the proposed rates associated with the two charges paid by customers in the District's five proposed customer classes. These rates are based on the results of the cost-of-service analysis in the preceding section. Note that the rate structures that were adopted effective February 1, 2022 are unchanged in this revised rate study (e.g., the same numbers of tiers and breakpoints). The same customer classes are proposed, with the same tier structures. The rates have increased in order to generate the intended revenue and to reflect the updated expense projections.

CUSTOMER CLASSES

The District's current rate structure is applied to all customers regardless of customer class. In effect, the District has no customer classes despite tracking water use by a variety of different customer types.

It is recommended that the District implement separate rate structures for the major customer classes that are tracked in its billing system. HF&H proposes (i) Single Family Residential, (ii) Multi-Family Residential, (iii) Non Residential (commercial), (iv) Irrigation, and (v) Hydrants.

The following is proposed as defining each proposed customer class:

Single Family Residential: includes free-standing single family homes, single family with an accessory dwelling unit, duplexes, and triplexes.

Multi-Family Residential: includes parcels with four or more dwelling units, apartments, condominiums, and mobile homes/mobile home parks.

Non-Residential: includes commercial businesses, hotels, churches, entertainment venues, industrial, clubs, fire-line services, and publicly-owned properties/facilities.

Irrigation: water system connections/meters that are specifically installed for outdoor irrigation purposes only.

Hydrants: temporary water system connections/portable meters used for provision of construction water.

FEBRUARY 1, 2022 RATE STRUCTURE

Customers are billed the sum of service charges and water consumption charges monthly. **Tables V-1** and **V-2** summarize the District's rates for its two existing charges

that became effective February 1, 2022. These rates were set lower than intended due to a modeling error and thereby were not generating sufficient revenue.

Table V-1. Monthly Service Charge Rates as of 2/1/2022

Service Size	Current Rates
5/8" meters	\$17.27
1" meters	\$39.36
1" w/ Fire meters	\$17.27
1 1/2" meters	\$76.18
2" meters	\$120.37
3" meters	\$260.29
4" meters	\$444.39
6" meters	\$996.71
8" meters	\$2,064.51
10" meters	\$3,095.50
12" meters	\$3,905.56
Fire Services	\$19.92
Fire Hydrant Meters	\$260.29

Table V-2. Water Charges Rates per HCF as of 2/1/2022

Customer Class	Adopted 2/1/22
Residential - Single Family	
Tier 1: 0 - 8 hcf	\$2.61
Tier 2: 9 - 14 hcf	\$4.36
Tier 3: 15+ hcf	\$5.96
Residential - Multi Family	
All Usage	\$3.83
Non Residential	
Tier 1: 0 - 34 hcf	\$3.52
Tier 2: 35+ hcf	\$4.30
Irrigation	
Tier 1: 0 - 113 hcf	\$3.52
Tier 2: 114+ hcf	\$4.62
Hydrant	
Tier 1: 0 - 115 hcf	\$3.52
Tier 2: 116+ hcf	\$4.29

SERVICE CHARGE RATES

Service charges are fixed rates charged on a per account basis that recover the cost of the customer service function. Service charges are graduated in proportion to the capacity of the service (i.e., size of the water meter) serving a property. They are also independent of customer classes because the capacity of a service is the same no matter what customer is connected to the meter. In other words, a one-inch meter provides the same capacity to any customer that is connected to it.

The service charges are set to generate the revenue required to cover the costs allocated to the customer service function, which was determined in the cost-of-service analysis. The customer service function has two components – customer accounts and customer capacity – each of which is itemized in the cost-of-service analysis. Costs attributable to customer accounts are allocated to customers in proportion to the total number of accounts. Costs attributable to customer capacity are allocated to customers in proportion to the capacity of their services. The sum of the two components equals the service charge rate per connection.

Capacity costs associated with the distribution system are apportioned among the connections in proportion to the capacity associated with each connection. Accounts are converted to Equivalent Meter Units (EMUs) to apportion the customer capacity cost component. An EMU represents the number of 5/8-inch meters to which a larger meter is equivalent. The capacity multipliers are based on AWWA nominal rated capacities.

The inventory of these meters is shown in **Table V-3**, which also shows the rated capacity in gallons per minute (GPM) for each meter size. Using the rated capacities, it is possible to calculate the EMUs for each size meter. For example, a 1-inch meter provides 2.5 times as much capacity as a 5/8-inch meter. The 132 1-inch meters equal 330 EMUs (i.e., 5/8" meters). The number of EMUs was calculated for each meter type and summed up to determine the total EMUs.

Table V-3 derives the unit costs for the customer accounts and customer capacity cost components. Each account is allocated \$2.79 for the customer account cost component. That amount represents the costs the District incurs to maintain an account regardless of the capacity of the service. Each account is also allocated \$16.34 per EMU. That amount represents a portion of the cost of providing distribution system capacity for each account, and increases in proportion to the capacity of the meter.

# of	Meter	Capacity	
Accounts	Ratings (gpm)	Multiplier*	EMUs
а	b	c = b ÷ 20	a * c
10,492	20	1.00	10,492
132	50	2.50	330
1,727	20	1.00	1,727
58	100	5.00	288
64	160	8.00	511
13	350	17.50	220
4	600	30.00	126
0	1350	67.50	0
1	2800	140.00	147
0	4200	210.00	0
0	5300	265.00	0
69	23.6	1.18	82
44	350	17.50	770
12,604		Total EMUs	14,693
\$421,645			\$2,880,687
\$2.79			
			\$16.34
	Accounts a 10,492 132 1,727 58 64 13 4 0 1 0 69 44 12,604 \$421,645	Accounts Ratings (gpm) a b 10,492 20 132 50 1,727 20 58 100 64 160 13 350 4 600 0 1350 1 2800 0 4200 0 5300 69 23.6 44 350 12,604 \$421,645	Accounts Ratings (gpm) Multiplier* a b c = b ÷ 20 10,492 20 1.00 132 50 2.50 1,727 20 1.00 58 100 5.00 64 160 8.00 13 350 17.50 4 600 30.00 0 1350 67.50 1 2800 140.00 0 4200 210.00 0 5300 265.00 69 23.6 1.18 44 350 17.50 12,604 Total EMUs

^{1.} Set to maintain same 1.18 ratio as current rate structure capacity multipliers

Table V-4 combines the customer service and capacity components into a service charge for each size service. The rates in column e are what the rates would have been without the modeling error discussed above. An additional 3.0% is added to these rates to cover increased costs due to higher than anticipated inflation and cost of purchased water.

Table V-4. Proposed Monthly Service Charges

		Account	Ca	apacity Compone	ent	cos	Proposed
Service	% of	Component		Capacity	Capacity	Service Charges	Service Charges
Size	Meters	(\$/mo.)	\$/EMU	Multiplier	Total	(\$/mo.)	(\$/mo.)
		a	b	С	d = b * c	e = a + d	f = e + 3.0%
5/8" meters	83.2%	\$2.79	\$16.34	1.00	\$16.34	\$19.13	\$19.70
1" meters	1.0%	\$2.79	\$16.34	2.50	\$40.84	\$43.63	\$44.94
1" w/ Fire meters	13.7%	\$2.79	\$16.34	1.00	\$16.34	\$19.13	\$19.70
1 1/2" meters	0.5%	\$2.79	\$16.34	5.00	\$81.69	\$84.48	\$87.01
2" meters	0.5%	\$2.79	\$16.34	8.00	\$130.70	\$133.49	\$137.49
3" meters	0.1%	\$2.79	\$16.34	17.50	\$285.91	\$288.70	\$297.36
4" meters	0.0%	\$2.79	\$16.34	30.00	\$490.13	\$492.92	\$507.71
6" meters	0.0%	\$2.79	\$16.34	67.50	\$1,102.80	\$1,105.59	\$1,138.76
8" meters	0.0%	\$2.79	\$16.34	140.00	\$2,287.29	\$2,290.08	\$2,358.78
10" meters	0.0%	\$2.79	\$16.34	210.00	\$3,430.94	\$3,433.73	\$3,536.74
12" meters	0.0%	\$2.79	\$16.34	265.00	\$4,329.52	\$4,332.31	\$4,462.28
Fire Services	0.5%	\$2.79	\$16.34	1.18	\$19.28	\$22.07	\$22.73
Fire Hydrant Meters	0.3%	\$2.79	\$16.34	17.50	\$285.91	\$288.70	\$297.36
						-	

^{2.} Same as 3" meters

WATER CHARGE RATES

The District's customers are currently charged a two-tier increasing block rate structure. These rates apply to all customers regardless of class. Increasing block rates are "progressive" in the sense that water is billed sequentially by block up to the highest block. It is not the case that all of the water is billed at only the rate for the highest block. All metered water use is at least billed the Tier 1 rate. Water use beyond Tier 1 is only billed the Tier 2 rate for the volume of water used within Tier 2.

Single Family Residential Water Charge Rates

Breakpoints Between Tiers

The base/extra capacity cost-of-service analysis leads to distinct levels of demand that are defined by the functions performed by facilities that are designed to provide each service level. Tier breakpoints were calculated for indoor use, average day demand, and peak day demand. Each of these service levels have an average flow that can be used as the divider (i.e., "breakpoint") between each service level.

Based on residential billing data and estimates of peak demands, the proposed break-points for Tier 1, Tier 2, and Tier 3 were calculated as shown in **Table V-5**. Given that the current Tier 1 breakpoint is at 8 hcf, the District favors keeping the breakpoint at 8 hcf instead of changing the breakpoint to 7 hcf. This level of indoor water use, 8 hcf, is consistent with historic demand patterns. The analysis used to calculate the 7 hcf indoor use is based on only one year of consumption and may not be reflective of a typical year.

Table V-5. Calculated Breakpoint Locations - Single Family Tiers

	Tier 1	Tier 2	Tier 3
Flow per Customer	Indoor Use	Average Day	Above Average
Residential - SF			
hcf per day	2,755	5,688	8,485
hcf per month	82,646	170,627	
# of Accounts	12,075	12,075	
Average flow per Acct (hcf/mo)	7.0	14.0	14+

Rates Per Tier

With breakpoints that correspond to the service levels in the cost-of-service analysis, it is possible to calculate the rate per tier by dividing the cost of service per tier by the water demand in each tier. The resulting rates represent the *unit cost* of service for each tier. **Table V-6** shows the calculations of the incremental cost per tier. Note that the cost-of-service allocated \$7,933,835 to average day demand in **Table IV-8**. It is estimated that

⁶ In this report, "rates" and "unit costs" are synonymous.

approximately 74.3%⁷ or \$5,895,279 of average day demand is for indoor water use. This leaves \$2,038,556 for non-indoor water use in the average day demand service level and \$1,074,266 for peak day demand, which is the sum of maximum day and maximum hour cost allocations (see **Table IV-8**).

Table V-6. Proposed Single Family Residential Water Charge Rates

Residential - SF Class	Indoor	Average	Peak
COS per Unit	Use	Day	Day
Residential COS - Consumption	\$5,895,279	\$2,038,556	\$1,074,266
Demand Per Tier			
Tier 1: 0 - 8 hcf	1,005,529		
Tier 2: 9 - 14 hcf	457,008	457,008	
Tier 3: 15+ hcf	613,428	613,428	613,428
Total hcf per Tier	2,075,965	1,070,436	613,428
Cost-of-Service per Unit (hcf)	\$2.84	\$1.90	\$1.75

Residential - SF Class	Indoor	Average	Peak
Unit Cost Calculation	Use	Day	Day
Tier 1: 0 - 8 hcf	\$2.84	\$2.84	\$2.84
Tier 2: 9 - 14 hcf		\$1.90	\$1.90
Tier 3: 15+ hcf			\$1.75
Unit Cost per hcf	\$2.84	\$4.74	\$6.50
	3.0%	3.0%	3.0%
Unit Cost per hcf plus 3.0%	\$2.93	\$4.88	\$6.70

Indoor use costs apply to all tiers. Usage up to the 8 hcf Tier 1 breakpoint is charged the indoor use rate only. Demand that does not exceed Tier 1 is not responsible for the additional costs of peaking that were allocated to the higher service levels. These additional peaking costs are both the initial capital cost, the subsequent rehabilitation and renewal costs, and the operations and maintenance costs for larger pipelines, additional pumps, and larger reservoirs. Bills that exceed Tier 1 pay additional rate increments corresponding to the higher levels of service.

Average day costs apply to all water use greater than Tier 1, namely, to Tier 2, and Tier 3. Usage between 9 and 14 hcf would be charged the Tier 2 rate, which is the sum of the indoor use and remaining average day incremental costs. Usage greater than 14 hcf would pay the Tier 3 rate, which is the sum of the average day and maximum day incremental costs. As demand progresses through the tiers, the additional costs of higher

⁷ Average winter water use (December, January, February, March) as a percent of average annual use.

levels of service associated with peaking are allocated to the higher tiers to recover the costs from those who require the higher levels of service.

Multi-Family Residential Water Charge Rates

The water charge rates for the proposed multi-family residential customer class are summarized in **Table V-7**. After analyzing the demand patterns of the District's customers, multi-family customers showed virtually no peaking. It is difficult to justify a tiered rate structure for a customer class with no peaking so a uniform rate was recommended for multi-family customers. The uniform rate is calculated in **Table V-7**.

Table V-7. Proposed Multi-Family Residential Water Charge Rate

r		
Residential - MF Class		
COS per Unit		
COS Allocation	\$295,234	
Consumption (hcf)	70,800	
Unit Cost per hcf	\$4.17	
	3.0%	
Unit Cost per hcf plus 3.0%	\$4.30	

Non-Residential Water Charge Rates

Breakpoint Between Tiers

Table V-8 shows the calculation of the breakpoint between the two proposed tiers for the proposed non-residential customer class. The breakpoint was set between average day demand and above average day demand. Each of these service levels have an average flow that can be used as the divider (i.e., "breakpoint") between each service level.

Table V-8. Proposed Breakpoint Locations - Non-Residential Tiers

	Tier 1	Tier 2
Flow per Customer	Average Day	Above Average
Non-Residential		
hcf per day	277	490
hcf per month	8,313	14,691
# of Accounts	246	246
Average flow per Acct (hcf/mo)	34.0	34+

Rates Per Tier

With breakpoints that correspond to the service levels in the cost-of-service analysis, it is possible to calculate the rate per tier by dividing the cost-of-service per tier by the water demand in each tier. The resulting rates represent the unit cost of service for each tier.

Table V-9 shows the calculations of the incremental cost per tier for the proposed non-residential class.

Table V-9. Proposed Non-Residential Water Charge Rates

Non Residential Class	Average	Above
COS per Unit	Day	Average
Non Res COS - Consumption	\$386,552	\$60,394
Demand Per Tier		
Tier 1: 0 - 34 hcf	31,269	
Tier 2: 35+ hcf	69,876	69,876
Total hcf per Tier	101,145	69,876
Cost-of-Service per Unit (hcf)	\$3.82	\$0.86

Non Residential Class	Average	Above
Unit Cost Calculation	Day	Average
Tier 1: 0 - 34 hcf	\$3.82	\$3.82
Tier 2: 35+ hcf		\$0.86
Unit Cost per hcf	\$3.82	\$4.69
	3.0%	3.0%
Unit Cost per hcf plus 3.0%	\$3.93	\$4.83

Hydrant Rates

Breakpoint Between Tiers

Table V-10 shows the calculation of the breakpoint between the two proposed tiers for the proposed hydrant customer class. The breakpoint was set between average day demand and above average day demand. Each of these service levels have an average flow that can be used as the divider (i.e., "breakpoint") between each service level.

Table V-10. Proposed Breakpoint Locations - Hydrant Tiers

	Tier 1	Tier 2
Flow per Customer	Average Day	Above Average
Hydrant (Customer)		
hcf per day	211	400
hcf per month	6,344	12,000
# of Accounts	55	55
Average flow per Acct (hcf/mo)	115.0	115+

Rates Per Tier

With breakpoints that correspond to the service levels in the cost-of-service analysis, it is possible to calculate the rate per tier by dividing the cost-of-service per tier by the water demand in each tier. The resulting rates represent the unit cost of service for each tier. **Table V-11** shows the calculations of the incremental cost per tier for the proposed hydrant customer class.

Table V-11. Proposed Hydrant Water Charge Rates

Hydrant Class	Average	Above
COS per Unit	Day	Average
Hydrant COS - Consumption	\$294,979	\$50,166
Demand Per Tier		
Tier 1: 0 - 115 hcf	18,230	
Tier 2: 116+ hcf	58,954	58,954
Total hcf per Tier	77,184	58,954
Cost-of-Service per Unit (hcf)	\$3.82	\$0.85

Hydrant Class	Average	Above
Unit Cost Calculation	Day	Average
Tier 1: 0 - 115 hcf	\$3.82	\$3.82
Tier 2: 116+ hcf		\$0.85
Unit Cost per hcf	\$3.82	\$4.67
	3.0%	3.0%
Unit Cost per hcf plus 3.0%	\$3.93	\$4.81

Irrigation Water Charge Rates

Breakpoint Between Tiers

Table V-12 shows the calculation of the breakpoint between the two proposed tiers for the proposed irrigation customer class. The breakpoint was set between average day demand and above average day demand. Each of these service levels have an average flow that can be used as the divider (i.e., "breakpoint") between each service level.

Table V-12.	Proposed	Breakpoin	t Locations –	Irrigation Tiers

	Tier 1	Tier 2
Flow per Customer	Average Day	Above Average
Irrigation		
hcf per day	682	1,354
hcf per month	20,465	40,610
# of Accounts	181	181
Average flow per Acct (hcf/mo)	113.0	113+

Rates Per Tier

With breakpoints that correspond to the service levels in the cost-of-service analysis, it is possible to calculate the rate per tier by dividing the cost-of-service per tier by the water demand in each tier. The resulting rates represent the unit cost of service for each tier. **Table V-13** shows the calculations of the incremental cost per tier for the proposed irrigation customer class.

Table V-13. Proposed Irrigation Water Charge Rates

Irrigation Class	Average	Above
COS per Unit	Day	Average
Hydrant COS - Consumption	\$951,595	\$168,958
Demand Per Tier		
Tier 1: 0 - 113 hcf	109,000	
Tier 2: 114+ hcf	139,994	139,994
Total hcf per Tier	248,994	139,994
Cost-of-Service per Unit (hcf)	\$3.82	\$1.21

Irrigation Class	Average	Above
Unit Cost Calculation	Day	Average
Tier 1: 0 - 113 hcf	\$3.82	\$3.82
Tier 2: 114+ hcf		\$1.21
Unit Cost per hcf	\$3.82	\$5.03
	3.0%	3.0%
Unit Cost per hcf plus 3.0%	\$3.93	\$5.18

RATE SUMMARY

The proposed rates for service charges and water charges are summarized for FY 2021-22 through FY 2025-26 in **Table V-14** and **Table V-15**.

Table V-14. Proposed Monthly Service Charges

Service Size	Adopted 2/1/22	Proposed 6/1/22	2/1/2023	2/1/2024	2/1/2025	2/1/2026
5/8" meters	\$17.27	\$19.70	\$20.49	\$21.31	\$22.16	\$23.05
1" meters	\$39.36	\$44.94	\$46.74	\$48.61	\$50.55	\$52.57
1" w/ Fire meters	\$17.27	\$19.70	\$20.49	\$21.31	\$22.16	\$23.05
1 1/2" meters	\$76.18	\$87.01	\$90.49	\$94.11	\$97.88	\$101.79
2" meters	\$120.37	\$137.49	\$142.99	\$148.71	\$154.66	\$160.85
3" meters	\$260.29	\$297.36	\$309.25	\$321.62	\$334.49	\$347.87
4" meters	\$444.39	\$507.71	\$528.02	\$549.14	\$571.10	\$593.95
6" meters	\$996.71	\$1,138.76	\$1,184.31	\$1,231.68	\$1,280.95	\$1,332.19
8" meters	\$2,064.51	\$2,358.78	\$2,453.13	\$2,551.26	\$2,653.31	\$2,759.44
10" meters	\$3,095.50	\$3,536.74	\$3,678.21	\$3,825.34	\$3,978.35	\$4,137.48
12" meters	\$3,905.56	\$4,462.28	\$4,640.77	\$4,826.40	\$5,019.45	\$5,220.23
Fire Services	\$19.92	\$22.73	\$23.64	\$24.58	\$25.57	\$26.59
Fire Hydrant Meters	\$260.29	\$297.36	\$309.25	\$321.62	\$334.49	\$347.87

Source: Figure V-4

Table V-15. Proposed Water Charge Rates

	Tubic	. v 13. 110pu	sca vvater cri	arge mai	Co		
Customer Class	Adopted 2/1/22	Customer Class	Proposed 6/1/22	2/1/2023	2/1/2024	2/1/2025	2/1/2026
Residential - Single Family		Residential - Single Fa	mily				
Tier 1: 0 - 8 hcf	\$2.61	Tier 1: 0 - 8 hcf	\$2.93	\$3.05	\$3.17	\$3.30	\$3.43
Tier 2: 9 - 14 hcf	\$4.36	Tier 2: 9 - 14 hcf	\$4.88	\$5.08	\$5.28	\$5.49	\$5.71
Tier 3: 15+ hcf	\$5.96	Tier 3: 15+ hcf	\$6.70	\$6.97	\$7.25	\$7.54	\$7.84
Residential - Multi Family		Residential - Multi Far	nily				
All Usage	\$3.83	All Usage	\$4.30	\$4.47	\$4.65	\$4.84	\$5.03
Non Residential		Non Residential					
Tier 1: 0 - 34 hcf	\$3.52	Tier 1: 0 - 34 hcf	\$3.93	\$4.09	\$4.25	\$4.42	\$4.60
Tier 2: 35+ hcf	\$4.30	Tier 2: 35+ hcf	\$4.83	\$5.02	\$5.22	\$5.43	\$5.65
Irrigation		Irrigation					
Tier 1: 0 - 113 hcf	\$3.52	Tier 1: 0 - 113 hcf	\$3.93	\$4.09	\$4.25	\$4.42	\$4.60
Tier 2: 114+ hcf	\$4.62	Tier 2: 114+ hcf	\$5.18	\$5.39	\$5.60	\$5.83	\$6.06
Hydrant		Hydrant					
Tier 1: 0 - 115 hcf	\$3.52	Tier 1: 0 - 115 hcf	\$3.93	\$4.09	\$4.25	\$4.42	\$4.60
Tier 2: 116+ hcf	\$4.29	Tier 2: 116+ hcf	\$4.81	\$5.00	\$5.20	\$5.41	\$5.63

Source: Figures V-6, V-7, V-9, V-11, V-13.

Water Shortage Rate Adjustment

During prolonged shortages, customers are required to conserve or even ration their water use. These shortages can include locally declared water shortages caused by facility operations, State mandated reductions, or natural disasters including droughts. The magnitude of the water savings can significantly reduce water sales revenue from quantity charges.

During shortages, costs do not decrease in direct proportion to decreases in water use because typically over 70% of the costs are fixed regardless of how much water is supplied. Hence, a 10% reduction in water use may only reduce costs about 3% (i.e., 10% of

V. Rate Design

the 30% of costs that vary in proportion to water use). Because the District only receives 23% of its revenue from fixed charges, a 10% reduction in water sales results in an 7.7% reduction in revenue (i.e., 10% of 77% of the revenue from quantity charges). This means that, in a year-long 10% shortage, 97% of the costs are incurred while only 92.3% of the revenue is received, which is a 4.7% revenue shortfall.

Reserves may be able to cover the revenue shortfall during brief rationing periods. For longer or more severe rationing periods, rate increases are needed to offset this revenue shortfall in order to maintain service levels. On average, the rate increases are designed to be revenue neutral. In other words, customers that reduce their demand by the required amount will pay quantity charge rates, which when multiplied by their reduced demand, will generate only enough quantity charge revenue to cover costs.

The District proposes to use Water Shortage Response Multipliers to make the rate adjustments that are needed during emergency shortages declared by the Board of Directors to offset the revenue shortfalls caused by conservation. The adjustment could be made at the Board's discretion by applying the multipliers to the adopted rates only during the duration of the shortage. Rate payers would be given at least 30 days prior notice on their bills when an adjustment is made.

Methodology

Since the passage of Proposition 218, water shortages have occurred that have led an increasing number of water suppliers to adopt revenue stabilization adjustments that do not trigger the Proposition 218 protest process each time an adjustment is made. This is accomplished by including the Water Shortage Response Multipliers adjustment procedure in the Proposition 218 notice at the time rates are adopted in compliance with Proposition 218. The notice describes the process, which rate payers have the right to protest. Barring a majority protest, the adjustment process is adopted as part of the rate increase and can be implemented as needed during the term of the adopted rate increases.

The adjustment process includes multipliers by which water charge rates are adjusted in conjunction with the reduction stages in the Water Shortage Contingency Plan. The multipliers are only applied to the water charge rates and not to the service charge rates to give effect only to customer's changes in water demand. The District's current *Water Shortage Contingency Plan* is based on the same reduction in water use for all classes in each of the five stages. As part of the recommended Water Shortage Response Multipliers, it is proposed that the shortage reductions will vary by customer class. Each class' reduction will be determined by reducing "outdoor" water use (seasonal water use) six times more than "indoor" (average winter water use) water use.⁸ It is assumed that seasonal "outdoor" water demand is primarily for irrigation, which is a lower beneficial use

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 $^{^8}$ This 6-to-1 reduction formula was successfully implemented by the San Francisco Public Utilities Commission during the 1987-1992 drought.

than non-seasonal "indoor" demand, which is primarily related to health and safety needs.

Analysis

Based on recent AMI data, the resulting reductions are summarized in **Table V-16**. The reductions shown represent the customer class reductions required to achieve the reduction associated with each shortage stage. The customer class reductions are greater or less than the overall average for each stage depending on how much of each class' water demand is seasonal.

Table V-16. Shortage Reductions by Class

	Sho	rtage Reducti	ons By Class		
	Stage 1	Stage 2	Stage 3	Stage 5	
Class	10% Reduction	20% Reduction	30% Reduction	40% Reduction	50% Reduction
SFR	9.5%	18.9%	28.3%	37.8%	47.6%
MFR	4.2%	8.5%	12.7%	16.9%	23.5%
Commercial	6.2%	12.4%	18.6%	24.8%	32.6%
Irrigation	20.9%	41.6%	62.4%	83.2%	100.0%
Hydrant	20.9%	41.6%	62.4%	83.2%	100.0%

Table V-17 shows the calculation of each customer class' respective shortage reduction required during each shortage stage. The annual demand for each class is separated into indoor and outdoor water use where indoor water use is defined as the period from January through March multiplied times four to get the annualized indoor water use over 12 months. Subtracting indoor water use from the total annual water use determines the seasonal outdoor water use. In the case of the irrigation customer class, all of the demand is considered to be outdoor water use.

The percentage reductions for each customer class required to achieve the overall reduction for a particular stage are derived so that outdoor consumption is reduced six times indoor consumption. In a Stage 1 shortage, a 3.48% reduction in indoor water use and an 20.88% reduction in outdoor water use are required of all customer classes to achieve an overall 10% reduction. Applying the same reduction multipliers to each class results in different overall reductions for the class based on the relative proportions of their indoor and outdoor water use.

To achieve the 10% Stage 1 reduction, hydrant and irrigation customers are required to conserve more than 10% because they have higher seasonal use compared to single family, multi-family and commercial customers. This pattern is consistently repeated for each stage. Note that the 50% reduction required in Stage 5 is so great that all outdoor water use is eliminated and indoor water use has to be cut back 20.0%, which is a 5.0-to-1.0 relationship, not 6.0-to-1.0. In Stage 5, a 100% reduction in water use by hydrant and irrigation customers is required.

V. Rate Design

Table V-17. Calculation of Shortage Reductions by Stage and Customer Class

	Pacalina	Annual Dema	nd (UCE)			Reducti	one		
	Daseille /	Alliluai Dellia	iiu (HCF)	Reductions					
Class	Total	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Total	Total
SFR	2,075,965	1,359,932	716,033	3.48%	20.88%	47,326	149,508	196,833	9.5%
MFR	70,800	67,692	3,108	3.48%	20.88%	2,356	649	3,005	4.2%
Commercial	101,145	85,232	15,913	3.48%	20.88%	2,966	3,323	6,289	6.2%
Irrigation	248,994	-	248,994	3.48%	20.88%	-	51,990	51,990	20.9%
Hydrant	77,184	-	77,184	3.48%	20.88%	-	16,116	16,116	20.9%
Total	2,574,088	1,512,856	984,048	3.48%	20.88%	52,647	205,469	258,117	10.0%

20% Stage 2 Reduction											
	Baseline A	line Annual Demand (HCF) Reductions			F) Reductions						
Class	Total	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Total	Total		
SFR	2,075,965	1,359,932	716,033	6.94%	41.64%	94,379	298,156	392,535	18.9%		
MFR	70,800	67,692	3,108	6.94%	41.64%	4,698	1,294	5,992	8.5%		
Commercial	101,145	85,232	15,913	6.94%	41.64%	5,915	6,626	12,541	12.4%		
Irrigation	248,994	-	248,994	6.94%	41.64%	-	103,681	103,681	41.6%		
Hydrant	77,184	-	77,184	6.94%	41.64%	-	32,139	32,139	41.6%		
Total	2,574,088	1,512,856	984,048	6.94%	41.64%	104,992	409,758	514,750	20.0%		

	Baseline Annual Demand (HCF) Reductions								
Class	Total	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Total	Total
SFR	2,075,965	1,359,932	716,033	10.40%	62.40%	141,433	446,805	588,238	28.3%
MFR	70,800	67,692	3,108	10.40%	62.40%	7,040	1,939	8,979	12.7%
Commercial	101,145	85,232	15,913	10.40%	62.40%	8,864	9,930	18,794	18.6%
Irrigation	248,994	-	248,994	10.40%	62.40%	-	155,372	155,372	62.4%
Hydrant	77,184	-	77,184	10.40%	62.40%	-	48,163	48,163	62.4%
Total	2,574,088	1,512,856	984,048	10.40%	62.40%	157,337	614,046	771,383	30.0%

40%	Stage 4 Redu	ction							
	Baseline A	Annual Dema	nd (HCF)		Reductions				
Class	Total	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Total	Total
SFR	2,075,965	1,359,932	716,033	13.87%	83.22%	188,623	595,883	784,505	37.8%
MFR	70,800	67,692	3,108	13.87%	83.22%	9,389	2,586	11,975	16.9%
Commercial	101,145	85,232	15,913	13.87%	83.22%	11,822	13,243	25,064	24.8%
Irrigation	248,994	-	248,994	13.87%	83.22%	-	207,213	207,213	83.2%
Hydrant	77,184	-	77,184	13.87%	83.22%	-	64,233	64,233	83.2%
Total	2,574,088	1,512,856	984,048	13.87%	83.22%	209,833	818,925	1,028,758	40.0%

50%	6 Stage 5 Redu	ction							
	Baseline A	Annual Dema	nd (HCF)	Reductions					
Class	Total	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Total	Total
SFR	2,075,965	1,359,932	716,033	20.00%	100.00%	271,986	716,033	988,019	47.6%
MFR	70,800	67,692	3,108	20.00%	100.00%	13,538	3,108	16,646	23.5%
Commercial	101,145	85,232	15,913	20.00%	100.00%	17,046	15,913	32,959	32.6%
Irrigation	248,994	-	248,994	20.00%	100.00%	-	248,994	248,994	100.0%
Hydrant	77,184	-	77,184	20.00%	100.00%	-	77,184	77,184	100.0%
Total	2,574,088	1,512,856	984,048	20.00%	100.00%	302,571	984,048	1,286,619	50.0%

The service charge rates are fixed and generate about 23% of the total rate revenue regardless of shortages. The remaining 77% of revenue is generated by the water charge rates. In deriving the multipliers, the multipliers will only apply to the water charge rates because fluctuations in water use correlate with fluctuations in variable costs. Each customer class has its own set of multipliers corresponding to its reduction in each stage of shortage.

As an example, the Tier 2 single family residential water charge rates in effect under non-shortage conditions would be multiplied by 1.111 to derive the water charge rates to be in effect during a Stage 1 water shortage. **Table 5-18** shows the adjustment factors that would be applied to the rates that would normally be in effect absent declared shortages.

Table V-18. Water Shortage Response Multipliers by Class

	Revenue S	Stabilization N	/lultipliers By	Class	
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Class	10% Reduction	20% Reduction	30% Reduction	40% Reduction	50% Reduction
SFR	1.076	1.170	1.231	1.453	1.680
Tier 1	1.000	1.000	1.000	1.000	1.000
Tier 2	1.111	1.249	1.427	1.664	1.996
Tier 3	1.111	1.249	1.427	1.664	1.996
MFR	1.026	1.054	1.085	1.119	1.180
Commercial	1.039	1.083	1.133	1.193	1.282
Irrigation	1.154	1.417	1.970	3.898	3.898
Hydrant	1.154	1.417	1.970	3.898	3.898

Implementation

The recommended water shortage response multipliers in **Table V-18** are implemented only during periods of declared shortages. The adjustments can go in either direction from stage to stage depending on whether the level of reduction is increasing or decreasing during the shortage. At least 30 days prior to making the adjustment, notice must be provided to rate payers, which can be included in the customer's bills. No protest process is required.

VI. CUSTOMER BILL IMPACTS

A further understanding of the differences between the current and proposed rates/rate structures is gained by comparing bills based on both rate structures. The monthly cost comparison is based on "typical" District customers or customers that are most representative of a group of customers. The typical customer is based on the most common meter sizes for the class and the average water use for customers of that type.

The monthly bills for the rates adopted February 1, 2022 and proposed rates for June 1, 2022 are compared in **Figure VI-1** for single family residential customers with a 5/8" meter. The figure plots monthly bills for a range of consumption from 0 to 31 hcf.

During the year, consumption varies from billing period to billing period. Hence, for any given customer, a bill could fall

REVENUE REQUIREMENT
PROJECTIONS

Determines how much rate revenue is needed

COST-OF-SERVICE ALLOCATIONS

Allocates revenue requirements to charges and to customer categories

RATE STRUCTURE DESIGN
Calculates fixed charge rates per account and variable charge rates for metered water use

CUSTOMER BILL ANALYSIS
Evaluates impacts of proposed rates on customer bills for low, average, and high use

somewhere along the X-axis in **Figure VI-1**. During periods of low use, the bill under the proposed rates will be lower than it would have been if the current rate structure were unchanged. During periods of higher water use, the bill could be less or greater, depending on the level of water use. For the entire year, the sum of the bills under the proposed rates will be more or less than it would have been if the current rates are unchanged, again, depending on that customer's monthly/annual water use. 66% of the District's bills are issued at 15 hcf per month or less, all of these single family bills will see a bill reduction compared to current rates.

VI. Customer Bill Impacts



Figure VI-1. Current and Proposed Single Family Residential Bill Comparison

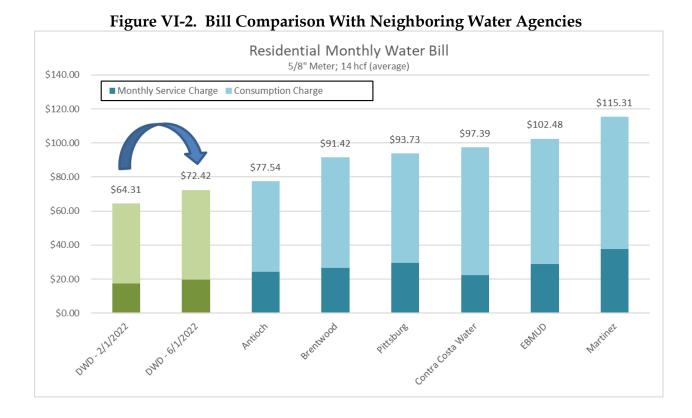
Four sample bills are shown for multi-family, non-residential, irrigation, and hydrant customers in **Table VI-1**.

Table VI-1. Sample Water Bill Impacts

Multi Family	Non Residential	Irrigation	Hydrant
2"	1"	2"	2"
300	60	250	250
\$120.37	\$39.36	\$120.37	\$120.37
\$1,149.00	\$231.48	\$1,030.70	\$983.95
\$1,269.37	\$270.84	\$1,151.07	\$1,104.32
2"	1"	2"	2"
300	60	250	250
\$133.49	\$44.94	\$133.49	\$133.49
\$1,290.00	\$259.20	\$1,153.75	\$1,101.30
\$1,423.49	\$304.14	\$1,287.24	\$1,234.79
\$154.12	\$33.30	\$136.17	\$130.47
12.1%	12.3%	11.8%	11.8%
	2" 300 \$120.37 \$1,149.00 \$1,269.37 2" 300 \$133.49 \$1,290.00 \$1,423.49	2" 1" 39.36 \$1.149.00 \$231.48 \$1,269.37 \$270.84 \$270.84 \$1,269.37 \$244.94 \$1,290.00 \$259.20 \$1,423.49 \$33.30	2" 1" 2" 300 60 250 \$120.37 \$39.36 \$120.37 \$1,149.00 \$231.48 \$1,030.70 \$1,269.37 \$270.84 \$1,151.07 \$2" 300 60 250 \$133.49 \$1,290.00 \$259.20 \$1,153.75 \$1,423.49 \$304.14 \$1,287.24

Figure VI-2 compares the District's residential monthly bills with a variety of water agencies in Contra Costa County. The comparison is for a customer with a 5/8- inch connection using the average amount of water for customers in each agency. Survey comparisons with other agencies are difficult to make on a comparable basis for various reasons:

- Every agency is physically unique. For example, some agencies are more expensive to operate because of hilly topography, which requires more booster pumping, etc..
- Each agency is fiscally unique. Some agencies have significant sources of non-operating revenues that may be utilized to reduces rates to customers.
- Finally, the size of the agency typically makes a difference, where larger agencies may have lower rates because of economies of scale.



WATER RATE STUDY

APPENDIX REVISED WATER RATE MODEL

		Α		В	C	D	Е	F		G	Н	I	J	K	L	М	N
1	Diablo Water D	istrict															
2	Water Rate Mo	del			w/ 3%	0.0	14	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03		
3	Table 1A - Sum	mary			w/o 3%	0.0	7	0.04	0.04	0.03	0.04	0.03	0.03	0.03	0.03		
4																	
5				Fiscal year	FY 2021-22	FY 2022-23	FY 2023-2	24 FY 2024	1-25 FY	2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31		
6	Rate Adjustme	nts		-													
7				February 1	7.1%	4.0%	4.0%	4.0%	6	4.0%	2.0%	3.0%	3.0%	3.0%	3.0%		ŀ
8	_			June 1 COS	9.3%												ŀ
9			June	e 1 additional	3.0%												
10			TOTAL (w/ co	ompounding)	20.5%												
11																	
12	Debt Co	• .	ninimum) Per O	•	4.61	3.06			2.66	2.76	2.92	3.21	3.14	2.60	6.64		
13]		bt Coverage (1.		4.18	3.34			2.73	2.81	2.85	3.02	2.89	2.35	4.01		
14			bt Coverage (1.		0.78				1.40	1.45	1.57	1.70	1.53	1.07	2.06		
15		С	umulative Reve	enue Increase	20.5%	25.3	% 30	.3%	35.6%	41.0%	43.8%	48.1%	52.6%	57.1%	61.8%		
16																	
17			Res	serve Balance	\$4,745,880	\$5,388,748				9,469,177	\$10,618,986	\$11,560,999	\$12,853,260	\$12,216,523	\$12,334,369		
18			Original	(Final Model) _	\$5,271,003	\$5,844,920				9,027,528	\$10,080,858	\$11,154,559	\$12,640,941	\$12,270,950	\$12,728,997		
19					(\$525,123)	(\$456,173	3) (\$145,3	(<mark>38)</mark> \$156	5,784	\$441,649	\$538,127	\$406,441	\$212,319	(\$54,427)	(\$394,628)		ŀ
20																	
21					Proje	ected Year	-End Fur	ıd 01 Cas	h Balar	ce							
22		\$16.0		1	1				_					_			
23		,	─ Tot	al Balance w/ Ra	te Increases												ŀ
24			_ Tot	al Balance w/o R	ate Increases												
25		\$14.0	\perp	M + Rate Stabiliz													
26					•	_						-	•				
27			Res	serve Target with	Capital and Eme	ergency Reserve	5						-				ŀ
28		\$12.0															ŀ
29		Reserves Balance (Millions) (Willions) (0.001)															ŀ
30		(\$10.0															
31		(Millions)							1								
32		ĕ Se															
33		⊕ \$8.0															
34		Re															
35] 												
36		\$6.0	+	 										\dashv			
37			•				_										
38					_												
39]	\$4.0	†					1									
40]																
41		\$2.0		<u> </u>	<u> </u>			<u> </u>									
42	1	φ∠.∪															
43]																
44]	\$0.0			``												
45]	Ψ3.0	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026	27 FY 20)27-28 FY 202	28-29 FY 2029	-30 FY 2030-3	31			
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 46 47]																
47	i L																

	Α	В	С	D	Е	F	G	Н	I	J	K	L
1	Diab	lo Water District		•	•		•				•	
2	Wat	er Rate Model										
3	Tabl	e 1B - Assumptions										
4												
5			Budget					Projected				
6			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31
7	а	Annual Account Growth Rate		3.04%	1.72%	1.52%	1.50%	1.48%	1.46%	1.43%	1.41%	1.39%
8	b	Changes in Annual Water Demand	0.83%	-2.77%	3.53%	0.99%	1.50%	1.48%	0.11%	1.44%	1.42%	1.40%
9	С	General Inflation	Budgeted	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
10	d	Salaries & Wages	Budgeted	7.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
11	е	Benefits	Budgeted	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
12	f	Utilites	Budgeted	50.78%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
13		Fuel & Chemicals	Budgeted	50.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
14	g	Construction Cost Inflation		2.92%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%	2.92%
15	h	Interest on Fund Balance	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
16	i	Annual SFR conservation reduction	Budgeted	2.56%	0.79%	0.53%	0.00%	0.00%	1.33%	0.00%	0.00%	0.00%
17	j	CCWD Estimated Annual Increase	7.00%	6.00%	5.75%	5.25%	5.25%	5.25%	5.25%	4.00%	4.00%	4.00%

Part			1 6 1		- 1	- 1		1				
Processor Proc	1		Ĺ	D	E	F	G	н		J	K	L
March Property P												
Page	3											
Part	4		Budgeted					Projected				
Bear Company			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31
Company State St												
Second content and form Second Se												
1.500 1.50												
The control issues												
Section Sect	11	Taxes and Licenses										
The part of the color	12	Office Record Imaging		\$9,376								
Description of Control Contr		Subtotal	\$162,575	\$172,158	\$174,563	\$182,570	\$187,384	\$193,608	\$196,347	\$205,308	\$208,244	\$220,211
The proof American Confidency Products (1997) 1942 1942												
Management 1970 1			¢14.100	Ć14 F22	¢14.050	Ć1F 407	Ć1F 070	¢1C 24C	¢1C 02C	Ć17 241	¢17.0¢1	Ć10 207
Description Section												
Programming Communiting												
Properties												
Continuing		Engineering / Consulting										
Second												
Content prints	22											
Description Control		Subtotal	\$400,380	\$118,841	\$172,406	\$126,078	\$299,861	\$343,756	\$137,769	\$316,902	\$196,159	\$230,544
Control Composition		Finance										
1.500 1.50			\$2,000	\$2,060	\$2.122	\$2.185	\$2.251	\$2.310	\$2.388	\$2.460	\$2.534	\$2.610
2	27											
Principe Notion	28											
1	29											
200.000 310.0000		Postage Meter										
Substance Subs	31											
Content Service	32											
2		Subtotal	\$185,000	\$237,550	\$240,177	\$242,882	\$245,668	\$248,538	\$251,494	\$254,539	\$257,675	\$260,906
Second Comment		Customer Service										
Conversation			\$2 100	\$2.163	\$2 228	\$2.295	\$2.364	\$2.434	\$2.508	\$2 583	\$2,660	\$2.740
Second Content Notification is VN \$2,200 \$2,247 \$2,246 \$2,222 \$2,200 \$2,272 \$2,286 \$2,292 \$3,000 \$	37											
December Subboral												
1		Tyler Software - SMS Customer Notifications & IVR	\$1,500	\$1,545	\$1,591	\$1,639	\$1,688	\$1,739	\$1,791	\$1,845	\$1,900	\$1,957
Commonwealth		Public Information										
Temporary Temp	41	Subtotal	\$46,000	\$52,080	\$53,642	\$55,252	\$56,909	\$58,616	\$60,375	\$62,186	\$64,052	\$65,973
Maintenance Agreements \$48,910 \$30,337 \$51,888 \$53,048 \$50,009 \$546,700 \$50,401 \$50,131 \$50,138 \$50,535 \$50,000 \$51,550	42	0"										
State			¢49.010	¢50 277	¢E1 000	¢E2 44E	ĆEE OAO	¢56 700	ĆE9 401	¢60.1E2	¢61.0E0	¢62 016
The Companies												
Micellaneous												
See	47											
Second Services Second Services Second	48											
57.00 57.725 57.525 58.95 58.41 58.865 58.625 59.224 59.00 59.785												
Software - Annual Fe												
53 Office - Utilities \$13,238 \$12,762 \$13,145 \$13,539 \$13,045 \$14,486 \$14,784 \$15,238 \$15,695 \$16,166 \$16	51											
Office - Phone Line Services Subbtal S22,870 S2416 S7,888 S7,888 S8,910 S8,877 S8,857 S9,321 S9,394 S5,394 S22,870 S22	52											
Substance Subs												
Section Sect	55											
Sample Section Secti			*,	+,	¥==-,	+,	+,	7,	* <i>,</i>	7,	+	¥===,===
Subtotal Section Sec	57	Insurance										
Column C												
Same		Subtotal	\$85,000	\$87,550	\$90,177	\$92,882	\$95,668	\$98,538	\$101,494	\$104,539	\$107,675	\$110,906
Legal Expenses - 50% GF and 50% FR \$39,000 \$40,170 \$41,375 \$42,616 \$43,895 \$45,212 \$46,568 \$47,965 \$59,404 \$50,886 \$62,000 \$60,170 \$41,375 \$42,616 \$43,895 \$45,212 \$46,568 \$47,965 \$49,404 \$50,886 \$62,000 \$40,170 \$41,375 \$42,616 \$43,895 \$45,212 \$46,568 \$47,965 \$49,404 \$50,886 \$62,000 \$40,000												
Subtotal Say,000 S40,170 S41,375 S42,616 S43,895 S45,212 S46,568 S47,965 S49,404 S50,886			\$20,000	¢40.170	¢41 27E	\$42.616	¢42 00E	¢45 212	¢AC EGO	\$47.0CE	\$40,404	¢50.006
Section Sect			,.	, -			,	, ., .=	,			,
Maintenance T&D S278,500 S276,495 S279,685 S303,575 S263,673 S417,983 S278,512 S283,268 S294,256 S304,483 S417,44 S418,456 S417,44 S418,456 S417,44 S418,46 S417,44 S418,46 S417,44 S418,46 S417,44 S418,46 S418,475 S417,44 S418,46 S417,47 S418,475 S418	65	Operations and Maintenance										
Maintenance Backflow S48,000 S49,440 S50,923 S52,451 S54,024 S55,645 S57,315 S59,034 S60,805 S62,629 Maintenance Reservoirs S41,000 S187,080 S38,192 S789,338 S790,518 S41,785 S42,986 S44,275 S45,604 S46,972 Maintenance Blendring S17,000 S25,010 S18,035 S18,576 S19,134 S19,708 S20,299 S20,908 S21,535 S22,181 Maintenance Glen Park Well S10,260 S10,568 S10,885 S11,211 S11,548 S11,894 S12,251 S12,619 S312,997 S13,387 Maintenance Delta Coves S5,250 S5,408 S5,570 S5,737 S5,909 S6,086 S6,269 S6,457 S6,651 S6,850 Water Samples S80,000 S132,400 S48,872 S87,418 S90,041 S92,742 S95,524 S98,390 S10,342 S10,343 Maintenance Stone Park Well S80,000 S132,400 S48,872 S87,418 S90,041 S92,742 S95,524 S98,390 S10,342 S10,343 Maintenance Stone Park Well S80,000 S132,400 S48,872 S87,418 S90,041 S92,742 S95,524 S98,390 S10,342 S10,343 Maintenance Stone Park Well S80,000 S132,400 S48,872 S87,418 S90,041 S92,742 S95,524 S98,390 S10,342 S10,343 Maintenance Stone Park Well S10,260 S132,400 S48,872 S87,418 S90,041 S92,742 S95,524 S98,390 S10,342 S10,343 Maintenance Stone Park Well S10,260 S48,872 S47,418 S90,041 S92,742 S95,524 S98,390 S10,342 S10,343 Maintenance Stone Park Well S10,260 S48,872 S47,975 S47,975 S47,975 S48,077 S48,071												
Maintenance Reservoirs												
Maintenance Blending												
Maintenance Glen Park Well	70											
Maintenance Stonecreek Well	71											
Maintenance Delta Coves S5,250 S5,408 S5,570 S5,737 S5,909 S6,086 S6,269 S6,457 S6,651 S6,850												
Telephone Services for Field Samples Sam	73											
	74	Water Samples	\$80,000	\$132,400	\$84,872	\$87,418	\$90,041	\$92,742	\$95,524	\$98,390	\$101,342	\$104,382
	75											
Factor Fig.	76											
Payroll - Salaries Subtotal \$737,120 \$1,033,075 \$720,203 \$1,510,774 \$1,480,947 \$899,239 \$774,168 \$793,756 \$1,473,519 \$849,481												
80 Payroll - Salaries Senefits Taxes Solaries Senefits												
81 Payroll - Salaries/Benefits/Taxes 2.0% additional COLA FY 2022-23 2.28 additional COLA FY 2022-24 2.28 additional COLA FY 2022-25 2.28 additional COLA	80	Subtotal	\$/3/,120	\$1,033,075	\$720,203	\$1,510,774	\$1,480,947	\$899,239	\$//4,168	\$/93,/56	\$1,4/3,519	\$849,481
82 Salaries 5.0% \$1,853,207 \$1,982,932 \$2,082,078 \$2,186,182 \$2,295,491 \$2,410,266 \$2,530,779 \$2,657,318 \$2,790,184 \$2,929,693 83 Overtime 5.0% \$144,334 \$154,437 \$162,159 \$170,267 \$178,780 \$187,719 \$197,105 \$206,960 \$217,308 \$228,174 84 Benefits - Health/LTD/STD/Life Insurance/Retireme 5.0% \$685,475 \$733,458 \$770,131 \$808,638 \$849,069 \$981,523 \$936,099 \$982,904 \$1,003,049 \$1,003,652 85 CalPERS UAL \$230,513 \$248,874 \$268,040 \$280,579 \$292,333 \$299,342 \$306,545 \$313,944 \$321,549 \$329,362 86 Taxes - Worker's Compensation/FICA/Medi 5.0% \$172,227 \$184,283 \$193,497 \$203,172 \$213,330 \$223,997 \$235,197 \$246,957 \$259,304 \$272,270		Payroll - Salaries/Renefits/Taxes	г	2.0%	dditional COLA EV 202	2-23						
83 Overtime 5.0% \$144,334 \$154,437 \$162,159 \$170,267 \$178,780 \$187,719 \$197,105 \$206,960 \$217,308 \$228,174 84 Benefits - Health/LTD/STD/Life Insurance/Retireme 5.0% \$685,475 \$733,458 \$770,131 \$808,638 \$849,069 \$991,523 \$936,099 \$982,904 \$1,032,049 \$1,083,652 85 CalPERS UAL \$230,513 \$248,874 \$268,040 \$280,579 \$292,333 \$29,342 \$306,545 \$313,944 \$321,549 \$329,362 86 Taxes - Worker's Compensation/FICA/Medi 5.0% \$182,227 \$184,283 \$193,497 \$203,172 \$213,330 \$223,997 \$235,197 \$246,957 \$259,304 \$277,270			\$1.853.207				\$2 295 491	\$2 410 266	\$2 530 779	\$2 657 319	\$2 790 184	\$2 929 693
84 Benefits - Health/LTD/STD/Life Insurance/Retireme 5.0% \$685,475 \$733,458 \$770,131 \$808,638 \$849,069 \$891,523 \$936,099 \$982,904 \$1,032,049 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
85 CalPERS UAL \$230,513 \$248,874 \$268,040 \$280,579 \$292,333 \$299,342 \$306,545 \$313,944 \$321,549 \$329,362 86 Taxes - Worker's Compensation/FICA/Medi 5.0% \$172,227 \$184,283 \$193,497 \$203,172 \$213,330 \$223,997 \$235,197 \$246,957 \$259,304 \$272,270												
86 Taxes - Worker's Compensation/FICA/Medi 5.0% \$172,227 \$184,283 \$193,497 \$203,172 \$213,330 \$223,997 \$235,197 \$246,957 \$259,304 \$272,270	85											
87 Retired Employees Health Benefits \$69,793 \$71,886 \$74,043 \$76,264 \$78,552 \$80,909 \$83,336 \$85,836 \$88,411 \$91,063	86		\$172,227	\$184,283	\$193,497	\$203,172	\$213,330	\$223,997	\$235,197	\$246,957	\$259,304	\$272,270
	87	Retired Employees Health Benefits	\$69,793	\$71,886	\$74,043	\$76,264	\$78,552	\$80,909	\$83,336	\$85,836	\$88,411	\$91,063

	A	3 C	D	E	F	G	Н	I	J	K	L
88	Contra Costa County Employee Retirement Association	\$121,143	\$124,777	\$128,521	\$132,376	\$136,348	\$140,438	\$144,651	\$148,991	\$153,460	\$158,064
89	Delayed Hiring (Fund 01)	(\$97,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
90	Subtotal	\$3,179,691	\$3,500,647	\$3,678,468	\$3,857,478	\$4,043,904	\$4,234,193	\$4,433,712	\$4,642,910	\$4,862,266	\$5,092,278
91											

92	A B	C	D 50.0%	E 2.09/	F 2.0%	G 3.0%	H 3.0%	3.00/	J 2004	X 2.09/	L 2.00/
93	Transmission and Distribution Automotive Fuel, Maintenance, Miscellaneous	\$87,000	50.0% \$130,500	3.0% \$134,415	3.0% \$138,447	3.0% \$142,601	3.0% \$146,879	3.0% \$151,285	3.0% \$155,824	3.0% \$160,499	3.0% \$165.313
94	Chemicals Glen Park Well	\$7,210	\$10,815	\$11,139	\$11,474	\$11,818	\$12,172	\$12,538	\$133,824	\$13,301	\$13,700
95	Chemicals Blending Facility	\$25,100	\$37,650	\$38,780	\$39,943	\$41,141	\$42,375	\$43,647	\$44,956	\$46,305	\$47,694
96	Chemicals Stonecreek Well	\$5,000	\$7,500	\$7,725	\$7,957	\$8,195	\$8,441	\$8,695	\$8,955	\$9,224	\$9,501
97	Chemicals Delta Coves	\$7,000	\$10,500	\$10,815	\$11,139	\$11,474	\$11,818	\$12,172	\$12,538	\$12,914	\$13,301
98 99	General Operating - T&D	\$178,030	\$179,621	\$56,260	\$57,947	\$59,686	\$61,476	\$63,321	\$65,220	\$67,177	\$69,192
100	General Operating Blending General Operating Glen Park Well	\$36,450 \$3,000	\$37,544 \$3,090	\$38,670 \$3,183	\$39,830 \$3,278	\$41,025 \$3,377	\$42,256 \$3,478	\$43,523 \$3,582	\$44,829 \$3,690	\$46,174 \$3,800	\$47,559 \$3,914
101	General Operating Stonecreek Well	\$3,000	\$3,090	\$3,183	\$3,278	\$3,377	\$3,478	\$3,582	\$3,690	\$3,800	\$3,914
102	General Operating Delta Coves	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267	\$1,305
103	Subtotal	\$352,790	\$421,339	\$305,230	\$314,386	\$323,818	\$333,533	\$343,539	\$353,845	\$364,460	\$375,394
104											
105	Training	1						4			4
106 107	Training & Professional Development	\$30,500	\$31,415	\$32,357	\$33,328 \$8,523	\$34,328 \$10,779	\$35,358	\$36,419	\$37,511	\$38,636	\$39,796 \$10,177
107	Safety Subtotal	\$12,300 \$42,800	\$8,034 \$39,449	\$10,275 \$42,632	\$41,851	\$45,107	\$9,042 \$44,400	\$11,314 \$47,732	\$9,593 \$47,104	\$11,881 \$50,517	\$49,973
109	Subtotal	342,000	555,445	J42,032	J41,031	545,107	Ş44,400	547,732	347,104	530,317	545,575
110	Water Purchases - Source of Supply CCWD										
111	Water Purchases from CCWD	\$4,789,665	\$4,805,418	\$4,944,650	\$5,281,029	\$5,637,093	\$6,025,600	\$6,366,080	\$6,774,916	\$7,156,239	\$7,597,000
112	Subtotal	\$4,789,665	\$4,805,418	\$4,944,650	\$5,281,029	\$5,637,093	\$6,025,600	\$6,366,080	\$6,774,916	\$7,156,239	\$7,597,000
113 114	Water Treatment and Maintenance - RBWTP O&M										
115	Randall Bold Water Treatment Plant O&M	\$1,756,016	\$1,705,696	\$1,756,867	\$1,809,573	\$1,863,861	\$1,919,776	\$1,977,370	\$2,036,691	\$2,097,792	\$2,160,725
116	Additional True Up	\$130,000	+=,.05,055	<i>+=,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>	÷=,505,575	+=,505,001	+=,515,770	+2,3,7,3,0	+=,000,001	+=,031,132	+=,100,123
117	Subtotal	\$1,886,016	\$1,705,696	\$1,756,867	\$1,809,573	\$1,863,861	\$1,919,776	\$1,977,370	\$2,036,691	\$2,097,792	\$2,160,725
118											
119			, I		4	,					
120	Corpyard Improvements	\$13,545 \$20,000	\$13,951	\$14,370	\$14,801 \$21,855	\$15,245	\$20,702	\$16,173	\$16,659	\$17,158 \$25,335	\$17,673
121 122	Pipeline Corrosion Testing/Repairs Groundwater Sustainability Expenses	\$20,000	\$20,600 \$48,250	\$21,218 \$48,250	\$48,250	\$22,510 \$48,250	\$23,185 \$73,250	\$23,881 \$48,250	\$24,597 \$48,250	\$48,250	\$26,095 \$48,250
123	Fire Hydrant Maintanence	\$25,000	\$150,000	\$154,500	\$159,135	\$163,909	\$168,826	\$173,891	\$179,108	\$184,481	\$190,016
124	Water Conservation Program	\$25,000	\$100,000	\$103,000	\$106,090	\$111,395	\$116,964	\$122,812	\$128,953	\$135,401	\$142,171
125 126 127	Additional Staff	\$0	\$175,000	\$183,750	\$342,938	\$360,084	\$553,089	\$580,743	\$789,780	\$829,269	\$1,055,733
126	Emergency Reserve Expense	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0
127 128		\$1,083,545	\$1,507,801	\$1,525,088	\$1,693,068	\$1,721,393	\$956,017	\$965,751	\$1,187,347	\$1,239,895	\$1,479,938
129	Total Operations & Maintenance	\$13,241,013	\$13,998,025	\$14,004,266	\$15,546,991	\$16,320,054	\$15,708,811	\$15,993,668	\$17,154,013	\$18,436,904	\$18,889,490
130	rotal operations & Maintenance	J13,241,013	\$13,330,023	Ç14,004,200	\$13,540,551	\$10,320,03 4	\$13,700,011	\$13,333,000	¥17,154,015	\$10,430,504	¥10,005,450
131	Non-Operating Costs/Revenues										
132	Check Valve Maintenance	(\$170,000)	(\$175,100)	(\$180,353)	(\$185,764)	(\$191,336)	(\$197,077)	(\$202,989)	(\$209,079)	(\$215,351)	(\$221,811)
133	Check Valve Installation	(\$2,600)	(\$2,678)	(\$2,758)	(\$2,841)	(\$2,926)	(\$3,014)	(\$3,105)	(\$3,198)	(\$3,294)	(\$3,392)
134 135	Late Charges	(\$65,000)	(\$66,950)	(\$68,959)	(\$71,027)	(\$73,158)	(\$75,353)	(\$77,613)	(\$79,942)	(\$82,340)	(\$84,810)
136	Trip Charges Call-Out Charges	(\$26,523) (\$2,500)	(\$27,318) (\$2,575)	(\$28,138) (\$2,652)	(\$28,982) (\$2,732)	(\$29,851) (\$2,814)	(\$30,747) (\$2,898)	(\$31,669) (\$2,985)	(\$32,619) (\$3,075)	(\$33,598) (\$3,167)	(\$34,606) (\$3,262)
137	Destroyed Lock Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
138	Tampering Charges	(\$10,000)	(\$10,300)	(\$10,609)	(\$10,927)	(\$11,255)	(\$11,593)	(\$11,941)	(\$12,299)	(\$12,668)	(\$13,048)
139	Returned Item Charges	(\$2,500)	(\$2,575)	(\$2,652)	(\$2,732)	(\$2,814)	(\$2,898)	(\$2,985)	(\$3,075)	(\$3,167)	(\$3,262)
140	Meter Repairs	(\$530)	(\$546)	(\$563)	(\$580)	(\$597)	(\$615)	(\$633)	(\$652)	(\$672)	(\$692)
141 142	Hydrant Meter Replacement	(\$3,183)	(\$3,278)	(\$3,377)	(\$3,478)	(\$3,582) \$0	(\$3,690)	(\$3,800)	(\$3,914)	(\$4,032)	(\$4,153)
143	Hydrant Meter Repairs Field Service Charges	\$0 (\$1,591)	\$0 (\$1,639)	\$0 (\$1.688)	\$0 (\$1,739)	(\$1,791)	\$0 (\$1.845)	\$0 (\$1,900)	\$0 (\$1,957)	\$0 (\$2.016)	\$0 (\$2,076)
144	Bad Debt Recovery	(\$2,652)	(\$2,732)	(\$2,814)	(\$2,898)	(\$2,985)	(\$3,075)	(\$3,167)	(\$3,262)	(\$3,360)	(\$3,461)
145	Delta Coves Property Tax Income	(\$59,883)	(\$61,680)	(\$63,530)	(\$65,436)	(\$67,399)	(\$69,421)	(\$71,504)	(\$73,649)	(\$75,859)	(\$78,134)
146	Reimbursement for Retirees Health Benefits - OPEB	(\$65,376)	(\$67,337)	(\$69,357)	(\$71,438)	(\$73,581)	(\$75,789)	(\$78,062)	(\$80,404)	(\$82,816)	(\$85,301)
147	Other Income	(\$25,750)	(\$26,523)	(\$27,318)	(\$28,138)	(\$28,982)	(\$29,851)	(\$30,747)	(\$31,669)	(\$32,619)	(\$33,598)
148 149	Rental Income Southpark Well - M24	(\$127,308) (\$5,517)	(\$131,127) (\$5,682)	(\$135,061) (\$5,853)	(\$139,113) (\$6.028)	(\$143,286) (\$6,209)	(\$147,585) (\$6,395)	(\$152,012) (\$6,587)	(\$156,573) (\$6,785)	(\$161,270) (\$6,988)	(\$166,108) (\$7,198)
150	Knightsen Well - M25	(\$5,252)	(\$5,410)	(\$5,572)	(\$5,739)	(\$5,911)	(\$6.088)	(\$6,271)	(\$6,459)	(\$6,653)	(\$6,853)
151	Reimbursement from Developers	(\$400,000)	(\$412,000)	(\$424,360)	(\$437,091)	(\$450,204)	(\$463,710)	(\$477,621)	(\$491,950)	(\$506,708)	(\$521,909)
152	Willow Park Marina Well - M27	(\$10,821)	(\$11,146)	(\$11,480)	(\$11,825)	(\$12,179)	(\$12,545)	(\$12,921)	(\$13,309)	(\$13,708)	(\$14,119)
153	Future Additional Fees	,,,,,,,,	*********	/4		*********	***	***	*******	***	/4
154 155	Total Non-Rate Revenue	(\$986,987)	(\$1,016,596)	(\$1,047,094)	(\$1,078,507)	(\$1,110,862)	(\$1,144,188)	(\$1,178,514)	(\$1,213,869)	(\$1,250,285)	(\$1,287,794)
156	Subtotal	\$12,254,027	\$12,981,429	\$12,957,172	\$14,468,484	\$15,209,192	\$14,564,623	\$14,815,155	\$15,940,144	\$17,186,619	\$17,601,697
157		¥==,== :,==:	¥//	+,,	+,,	+,,	7-1,000,000	4,,	+,,	+,,	¥=:,===,==:
158	Debt Service										
159	2019 COPs (Refinancing of 2010s)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
160	2019 COPs (Restructuring of 2014s)	\$150,880	\$149,500	\$150,880	\$149,155	\$150,190	\$148,120	\$148,810	\$149,270	\$149,500	\$0
161 162	2019 COPs (\$4M New Money) 2021 COPs (Refinancing of 2013s)	\$0 \$100,715	\$0 \$116,158	\$0 \$115,275	\$0 \$115,752	\$0 \$116,070	\$0 \$116,229	\$0 \$116,229	\$0 \$116,070	\$0 \$115,752	\$0 \$0
163	Full GHG Offset, New Corp Yard, 2013 refi	\$37,500	\$257,700	\$484,800	\$482,200	\$484,400	\$481,200	\$482,800	\$484,000	\$484,800	\$485,200
164	Mains and Service Line Replacements #1	\$0	\$0	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058
165	Mains and Service Line Replacements #2	\$0	\$0	\$0	\$0	\$0	\$173,490	\$173,490	\$173,490	\$173,490	\$173,490
166	Mains and Service Line Replacements #3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$195,154	\$195,154
167 168	Bond Fund CIP (FYs 2022-23, 2023-24)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
168	Total Debt Service	\$289,095	\$523,358	\$904,013	\$900,165	\$903,718	\$1,072,097	\$1,074,387	\$1,075,888	\$1,271,754	\$1,006,902
170	Transfers to/(from)										
171	Operating Reserves	(\$217,540)	(\$575,599)	\$138,650	(\$532,826)	(\$325,981)	\$994,387	\$1,287,433	\$1,037,072	\$509,829	\$1,311,701
172	Capital Reserves	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728
		\$1,975,188	\$1,617,128	\$2,331,378	\$1,659,902	\$1,866,747	\$3,187,115	\$3,480,160	\$3,229,800	\$2,702,557	\$3,504,429
173											
174	Total Powania Paguiroment	\$14.519.310	¢1E 134 04C	¢16 103 FC2	¢17 030 FF1	¢17 070 CF7	¢10 022 026	610 300 703	\$20.24F 022	\$31,100,030	622 442 020
174 175 176	Total Revenue Requirement Annual Change	\$14,518,310	\$15,121,916 4.2%	\$16,192,563 7.1%	\$17,028,551 5.2%	\$17,979,657 5.6%	\$18,823,836 4.7%	\$19,369,702 2.9%	\$20,245,833 4.5%	\$21,160,930 4.5%	\$22,113,028 4.5%

	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Gallons per Connection per Day	390	380	377	375	375	375	370	370	370
Conservation Cutback (2/1/22 through 6/30/23)	-2.0%	5.0%							
Adjusted Consumption (weighted avg)	393	371	377	375	375	375	370	370	370
Gallons per Connection per Year	143,536	135,233	137,605	136,875	136,875	136,875	135,050	135,050	135,050
Number of Connections	12,491	12,891	13,116	13,316	13,516	13,716	13,916	14,116	14,316
Non Revenue Water	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%
Water Demand (tGal)	1,907,303	1,854,509	1,919,982	1,938,918	1,968,041	1,997,163	1,999,268	2,028,002	2,056,736
Well Water (tGal)	342,188	205,000	342,188	342,188	342,188	342,188	342,188	342,188	342,188
Purchased Water Needs (tGal)	1,565,116	1,649,509	1,577,794	1,596,731	1,625,853	1,654,976	1,657,081	1,685,815	1,714,549
Peak Month Demand	196,691	180,179	190,880	192,702	191,286	191,867	195,280	196,097	197,673
Service Charge per Month (8 months)	\$7.47	\$7.99	\$8.47	\$8.96	\$9.43	\$9.93	\$10.45	\$10.99	\$11.43
Service Charge per Month (4 months)	\$7.99	\$8.47	\$8.96	\$9.43	\$9.93	\$10.45	\$10.99	\$11.43	\$11.89
Demand Charge per tGal (8 months)	\$3.56	\$3.81	\$4.04	\$4.27	\$4.50	\$4.73	\$4.98	\$5.24	\$5.45
Demand Charge per tGal (4 months)	\$3.81	\$4.04	\$4.27	\$4.50	\$4.73	\$4.98	\$5.24	\$5.45	\$5.67
		** **	40.00				44.4	****	
Volumetric Charge per tGal (8 months)	\$2.28	\$2.44	\$2.59	\$2.73	\$2.88	\$3.03	\$3.19	\$3.36	\$3.49
Volumetric Charge per tGal (4 months)	\$2.44	\$2.59	\$2.73	\$2.88	\$3.03	\$3.19	\$3.36	\$3.49	\$3.63
Service Charge	\$93.82	\$99.75	\$105.57	\$111.28	\$117.12	\$123.27	\$129.74	\$135.45	\$140.87
Demand Charge	\$717,200	\$700,693	\$786,203	\$837,971	\$875,487	\$924,245	\$990,074	\$1,042,129	\$1,092,522
Volumetric Charge	\$3,651,728	\$4,104,625	\$4,158,341	\$4,442,946	\$4,761,489	\$5,101,232	\$5,375,877	\$5,732,651	\$6,063,576
Additional Water Purchases	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
·	\$5,369,022	\$4,805,418	\$4,944,650	\$5,281,029	\$5,637,093	\$6,025,600	\$6,366,080	\$6,774,916	\$7,156,239
Annual Water Demand Increase (row 14)	0.83%	-2.77%	3.53%	0.99%	1.50%	1.48%	0.11%	1.44%	1.42%

Purchased Water Needs (tGal) (before 21/22 cutback) 1,891,540

FY 2030-31

370 370 135,050 14,516 6.0%

2,085,470 342,188 1,743,283

206,168

\$11.89 \$12.37

\$5.67 \$5.90

\$3.63 \$3.77

\$146.51 \$1,185,051 \$6,411,803 \$0 \$7,597,000

1.40%

		FY 2021-22		FY 202	2-23	FY 202	23-24	FY 202	4-25	FY 202	25-26	FY 202	26-27
Service Charge Revenue at Current Rates													
Meter Count by Size	Jul 1	Feb 1	Jun 1	Jul 1	Feb 1								
months in effect		4	1	7	5	7	5	7	5	7	5	7	5
5/8" meters	10,492	10,492	10,492	10,828	10,828	11,017	11,017	11,185	11,185	11,353	11,353	11,521	11,521
1" meters	132	132	132	136	136	139	139	141	141	143	143	145	145
1" w/ Fire meters	1,727	1,727	1,727	1,783	1,783	1,814	1,814	1,841	1,841	1,869	1,869	1,897	1,897
1 1/2" meters	58	58	58	59	59	61	61	61	61	62	62	63	63
2" meters	64	64	64	66	66	67	67	68	68	69	69	70	70
3" meters	13	13	13	13	13	13	13	13	13	14	14	14	14
4" meters	4	4	4	4	4	4	4	4	4	5	5	5	5
6" meters	0	0	0	0	0	0	0	0	0	0	0	0	0
8" meters	1	1	1	1	1	1	1	1	1	1	1	1	1
10" meters	0	0	0	0	0	0	0	0	0	0	0	0	0
12" meters	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Services	69	69	69	71	71	73	73	74	74	75	75	76	76
Fire Hydrant Meters	44	44	44	25	25	22	22	22	22	22	22	22	22
	12,604	12,604	12,604	12,987	12,987	13,210	13,210	13,411	13,411	13,613	13,613	13,814	13,814
				3.0%		1.7%		1.5%		1.5%		1.5%	
Monthly Rate 5/8" meters	617.52	647.27	¢10.70	\$19.70	ć20.40	¢20.40	ć24.24	¢24.24	622.46	¢22.16	622.05	ć22.0F	\$23.51
•	\$17.52	\$17.27	\$19.70	·	\$20.49	\$20.49	\$21.31	\$21.31	\$22.16	\$22.16	\$23.05	\$23.05	
1" meters	\$43.80	\$39.36	\$44.94	\$44.94	\$46.74	\$46.74	\$48.61	\$48.61	\$50.55	\$50.55	\$52.57	\$52.57	\$53.63
1" w/ Fire meters	\$17.52	\$17.27	\$19.70	\$19.70	\$20.49	\$20.49	\$21.31	\$21.31	\$22.16	\$22.16	\$23.05	\$23.05	\$23.51
1 1/2" meters	\$87.60	\$76.18	\$87.01	\$87.01	\$90.49	\$90.49	\$94.11	\$94.11	\$97.88	\$97.88	\$101.79	\$101.79	\$103.83
2" meters	\$140.16	\$120.37	\$137.49	\$137.49	\$142.99	\$142.99	\$148.71	\$148.71	\$154.66	\$154.66	\$160.85	\$160.85	\$164.07
3" meters 4" meters	\$262.80 \$438.00	\$260.29 \$444.39	\$297.36 \$507.71	\$297.36 \$507.71	\$309.25 \$528.02	\$309.25 \$528.02	\$321.62 \$549.14	\$321.62 \$549.14	\$334.49 \$571.10	\$334.49 \$571.10	\$347.87 \$593.95	\$347.87 \$593.95	\$354.83 \$605.83
			-										
6" meters 8" meters	\$876.00 \$1,401.60	\$996.71 \$2,064.51	\$1,138.76 \$2,358.78	\$1,138.76 \$2,358.78	\$1,184.31	\$1,184.31 \$2,453.13	\$1,231.68 \$2,551.26	\$1,231.68 \$2,551.26	\$1,280.95 \$2,653.31	\$1,280.95 \$2,653.31	\$1,332.19 \$2,759.44	\$1,332.19 \$2,759.44	\$1,358.83 \$2,814.63
10" meters	\$2,014.80	\$3,095.50	\$3,536.74	\$2,536.76	\$2,453.13 \$3,678.21	\$3,678.21	\$3,825.34	\$2,331.20	\$3,978.35	\$3,978.35	\$4,137.48	\$4,137.48	\$4,220.23
12" meters	\$3,766.80	\$3,905.56	\$4,462.28	\$4,462.28	\$4,640.77	\$4,640.77	\$4,826.40	\$4,826.40	\$5,019.45	\$5,019.45	\$5,220.23	\$5,220.23	\$5,324.64
12 meters	\$3,700.80	\$3,505.50	54,402.28	74,402.28	34,040.77	54,040.77	34,820.40	34,820.40	\$5,019.45	\$3,013.43	\$3,220.23	\$3,220.23	\$3,324.04
Annual Revenue													
5/8" meters	\$1,286,374	\$724,698	\$206,683	\$1,493,115	\$1,109,171	\$1,579,944	\$1,173,673	\$1,668,198	\$1,239,233	\$1,760,984	\$1,308,160	\$1,858,524	\$1,354,068
1" meters	\$40,491	\$20,793	\$5,935	\$42,877	\$31,851	\$45,370	\$33,704	\$47,905	\$35,586	\$50,569	\$37,566	\$53,370	\$38,884
1" w/ Fire meters	\$211,783	\$119,311	\$34,027	\$245,820	\$182,609	\$260,115	\$193,228	\$274,644	\$204,022	\$289,920	\$215,369	\$305,979	\$222,927
1 1/2" meters	\$35,350	\$17,567	\$5,016	\$36,236	\$26,918	\$38,344	\$28,484	\$40,485	\$30,075	\$42,737	\$31,748	\$45,104	\$32,862
2" meters	\$62,729	\$30,783	\$8,791	\$63,507	\$47,177	\$67,200	\$49,920	\$70,954	\$52,709	\$74,901	\$55,640	\$79,049	\$57,593
3" meters	\$23,138	\$13,095	\$3,740	\$27,019	\$20,071	\$28,590	\$21,239	\$30,187	\$22,425	\$31,866	\$23,672	\$33,631	\$24,503
4" meters	\$12,854	\$7,453	\$2,129	\$15,377	\$11,423	\$16,272	\$12,087	\$17,181	\$12,763	\$18,136	\$13,473	\$19,141	\$13,945
6" meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8" meters	\$10,284	\$8,656	\$2,472	\$17,861	\$13,268	\$18,899	\$14,039	\$19,955	\$14,824	\$21,065	\$15,648	\$22,232	\$16,197
10" meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12" meters	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Service Charge Revenue	\$1,683,003	\$942,355	\$268,794	\$1,941,813	\$1,442,489	\$2,054,734	\$1,526,374	\$2,169,509	\$1,611,635	\$2,290,179	\$1,701,276	\$2,417,031	\$1,760,980
Water Committee Bourses at Committee Bates													
Water Consumption Revenue at Current Rates Residential - SF													
Tier 1 Usage	586,559	341,880	85,470	575,075	410,768	595,378	425,270	601,250	429,465	610,281	435,915	619,312	442,366
Tier 2 Usage	266,588	155,383	38,846	261,369	186,692	270,596	193,283	273,265	195,190	277,370	198,121	281,474	201,053
Tier 3 Usage	357,833	208,566	52,141	350,828	250,591	363,213	259,438	366,796	261,997	372,305	265,932	377,814	269,867
ner o osage	337,033	200,300	32,141	330,626	230,331	303,213	233,430	300,730	201,337	372,303	203,332	3//,014	203,607
Tier 1 Rate	\$3.40	\$2.61	\$2.93	\$2.93	\$3.04	\$3.04	\$3.16	\$3.16	\$3.29	\$3.29	\$3.42	\$3.42	\$3.49
Tier 2 Rate	\$3.80	\$4.36	\$4.88	\$4.88	\$5.08	\$5.08	\$5.28	\$5.28	\$5.49	\$5.49	\$5.71	\$5.71	\$5.83
Tier 3 Rate	\$3.80	\$5.96	\$6.70	\$6.70	\$6.96	\$6.96	\$7.24	\$7.24	\$7.53	\$7.53	\$7.83	\$7.83	\$7.99
		•					·		,		,		
Tier 1 Revenue	\$1,994,299	\$893,238	\$250,017	\$1,682,210	\$1,249,642	\$1,811,264	\$1,345,510	\$1,902,294	\$1,413,132	\$2,008,101	\$1,491,732	\$2,119,328	\$1,544,082

Tier 2 Revenue	\$1,013,034	\$678,226	\$189,652	\$1,276,055	\$947,927	\$1,373,950	\$1,020,649	\$1,443,001	\$1,071,944	\$1,523,262	\$1,131,566	\$1,607,635	\$1,171,277
Tier 3 Revenue	\$1,359,765	\$1,243,105	\$349,087	\$2,348,791	\$1,744,816	\$2,528,982	\$1,878,673	\$2,656,083	\$1,973,090	\$2,803,816	\$2,082,835	\$2,959,118	\$2,155,929
Consumption Revenue - Residential SF	\$4,367,099	\$2,814,568	\$788,756	\$5,307,056	\$3,942,385	\$5,714,197	\$4,244,832	\$6,001,378	\$4,458,166	\$6,335,179	\$4,706,133	\$6,686,081	\$4,871,288
Residential - MF													
Tier 1 Usage	41,300	24,072	6,018	40,491	28,922	41,921	29,944	42,334	30,239	42,970	30,693	43,606	31,147
Tier 1 Rate	\$3.40	\$3.83	\$4.30	\$4.30	\$4.47	\$4.47	\$4.65	\$4.65	\$4.83	\$4.83	\$5.02	\$5.02	\$5.13
Tier 1 Revenue	\$140,420	\$92,278	\$25,848	\$173,914	\$129,193	\$187,256	\$139,104	\$196,667	\$146,095	\$207,605	\$154,221	\$219,105	\$159,633
Consumption Revenue - Residential MF	\$140,420	\$92,278	\$25,848	\$173,914	\$129,193	\$187,256	\$139,104	\$196,667	\$146,095	\$207,605	\$154,221	\$219,105	\$159,633
Non-Residential													
Tier 1 Usage	18,240	10,631	2,658	17,883	12,774	18,515	13,225	18,697	13,355	18,978	13,556	19,259	13,756
Tier 2 Usage	40,761	23,758	5,939	39,963	28,545	41,374	29,553	41,782	29,844	42,410	30,293	43,037	30,741
	-, -	,	-,	,	-,	,-	.,	, -	-,-	,	,	-,	,
Tier 1 Rate	\$3.40	\$3.52	\$3.93	\$3.93	\$4.09	\$4.09	\$4.26	\$4.26	\$4.43	\$4.43	\$4.60	\$4.60	\$4.69
Tier 2 Rate	\$3.80	\$4.30	\$4.83	\$4.83	\$5.02	\$5.02	\$5.22	\$5.22	\$5.43	\$5.43	\$5.65	\$5.65	\$5.76
Tion 4 December	¢62.04=	627.202	610.450	670.263	ć=2.27C	675 764	ÅEC 200	670 566	ćE0 400	ć02.00 <i>ć</i>	ćc2 20c	600.64=	664 505
Tier 1 Revenue Tier 2 Revenue	\$62,017 \$154,892	\$37,382 \$102,244	\$10,458 \$28,668	\$70,363 \$192,887	\$52,270 \$143,288	\$75,761 \$207,685	\$56,280 \$154,280	\$79,569 \$218,123	\$59,108 \$162,034	\$83,994 \$230,255	\$62,396 \$171,046	\$88,647 \$243,008	\$64,585 \$177,049
Consumption Revenue - Non-residential	\$154,892	\$102,244	\$39,125	\$263,250	\$143,288	\$207,685	\$134,280	\$218,123	\$102,034	\$314,249	\$233,442	\$331,655	\$241,635
consumption nevenue from residential	7210,303	7133,020	733,123	7203,230	7133,337	7203,440	7210,300	7257,051	Y221,172	Y317,273	7233,772	7551,055	72-1,000
<u>Irrigation</u>													
Tier 1 Usage	63,583	37,060	9,265	62,339	44,528	64,539	46,100	65,176	46,554	66,155	47,253	67,134	47,953
Tier 2 Usage	81,663	47,598	11,899	80,064	57,189	82,891	59,208	83,709	59,792	84,966	60,690	86,223	61,588
T. 12.	40.40	40.50	40.00	40.00	44.00	44.00	44.00	4.00	44.40	44.40	44.50	44.50	44.50
Tier 1 Rate	\$3.40	\$3.52	\$3.93	\$3.93	\$4.09	\$4.09 \$5.39	\$4.26	\$4.26	\$4.43	\$4.43 \$5.83	\$4.60	\$4.60	\$4.69 \$6.18
Tier 2 Rate	\$3.80	\$4.62	\$5.18	\$5.18	\$5.39	\$5.39	\$5.60	\$5.60	\$5.83	\$5.65	\$6.06	\$6.06	\$6.18
Tier 1 Revenue	\$216,183	\$130,310	\$36,454	\$245,277	\$182,206	\$264,094	\$196,184	\$277,367	\$206,044	\$292,794	\$217,504	\$309,012	\$225,137
Tier 2 Revenue	\$310,320	\$219,696	\$61,634	\$414,695	\$308,059	\$446,509	\$331,692	\$468,949	\$348,362	\$495,032	\$367,738	\$522,452	\$380,643
Consumption Revenue - Irrigation	\$526,503	\$350,006	\$98,088	\$659,972	\$490,265	\$710,603	\$527,876	\$746,316	\$554,406	\$787,826	\$585,242	\$831,464	\$605,781
<u>Hydrant</u>						40 704			7 705		7.000	44.000	0.000
Tier 1 Usage	10,634 34,390	6,198 20,044	1,550 5,011	10,426 33,717	7,447 24,083	10,794 34,907	7,710 24,934	10,901 35,251	7,786 25,179	11,064 35,781	7,903 25,558	11,228 36,310	8,020 25,936
Tier 2 Usage	34,390	20,044	3,011	33,717	24,063	34,507	24,934	33,231	23,179	33,761	23,336	30,310	23,930
Tier 1 Rate	\$3.40	\$3.52	\$3.93	\$3.93	\$4.09	\$4.09	\$4.26	\$4.26	\$4.43	\$4.43	\$4.60	\$4.60	\$4.69
Tier 2 Rate	\$3.80	\$4.29	\$4.81	\$4.81	\$5.01	\$5.01	\$5.21	\$5.21	\$5.41	\$5.41	\$5.63	\$5.63	\$5.74
Tier 1 Revenue	\$36,156	\$21,794	\$6,097	\$41,022	\$30,474	\$44,169	\$32,811	\$46,389	\$34,460	\$48,969	\$36,377	\$51,682	\$37,654
Tier 2 Revenue	\$130,681	\$86,018	\$24,118	\$162,274	\$120,546	\$174,723	\$129,794	\$183,504	\$136,317	\$193,710	\$143,899	\$204,440	\$148,949
Consumption Revenue - Hydrant	\$166,838	\$107,812	\$30,215	\$203,296	\$151,020	\$218,892	\$162,605	\$229,893	\$170,777	\$242,680	\$180,276	\$256,121	\$186,603
Fire Service/Hydrant													
Meter Count													
Fire Services	69	69	69	71	71	73	73	74	74	75	75	76	76
Fire Hydrant Meters	44	44	44	25	25	22	22	22	22	22	22	22	22
Monthly Rate	¢20.60	Ć10.02	622.72	622.72	¢22.64	ć22.C4	624.50	ć24 F0	625.57	625.57	¢26.50	¢26.50	627.12
Fire Services (average per acct) Fire Hydrant Meters	\$20.69 \$262.80	\$19.92 \$260.29	\$22.73 \$297.36	\$22.73 \$297.36	\$23.64 \$309.25	\$23.64 \$309.25	\$24.58 \$321.63	\$24.58 \$321.63	\$25.57 \$334.49	\$25.57 \$334.49	\$26.59 \$347.87	\$26.59 \$347.87	\$27.12 \$354.83
The Hydrant Meters	7202.0U	7200.23	7231.3U	7231.3U	7303.23	J303.23	JJ21.03	ΨJ21.U3	7JJ4.43		7J41.01	JJ47.07	,,,,,,o,
Annual Revenue													
Fire Services	\$10,020	\$5,512	\$1,572	\$19,472	\$20,251	\$20,604	\$21,428	\$21,755	\$22,625	\$22,965	\$23,884	\$24,237	\$24,722
Fire Hydrant Meters	\$80,942	\$45,810	\$13,084	\$89,208	\$92,776	\$81,643	\$84,909	\$84,909	\$88,305	\$88,305	\$91,838	\$91,838	\$93,674
	\$90,963	\$51,322	\$14,656	\$108,680	\$113,027	\$102,247	\$106,337	\$106,664	\$110,930	\$111,270	\$115,721	\$116,075	\$118,396
Revenue Recap													
nevenue necup			I		I		I		I		I		I

Service Charge Revenue Fire Service/Hydrant Consumption Revenue	\$1,683,003 \$90,963 \$5,417,769 \$7,191,734	\$942,355 \$51,322 \$3,504,291 \$4,497,968	\$268,794 \$14,656 \$982,031 \$1,265,481	\$1,941,813 \$108,680 \$6,607,488 \$8,657,980	\$1,442,489 \$113,027 \$4,908,419 \$6,463,936	\$2,054,734 \$102,247 \$7,114,393 \$9,271,374	\$1,526,374 \$106,337 \$5,284,977 \$6,917,688	\$2,169,509 \$106,664 \$7,471,944 \$9,748,118	\$1,611,635 \$110,930 \$5,550,587 \$7,273,153	\$2,290,179 \$111,270 \$7,887,539 \$10,288,988	\$1,701,276 \$115,721 \$5,859,315 \$7,676,312	\$2,417,031 \$116,075 \$8,324,426 \$10,857,531	\$1,760,980 \$118,396 \$6,064,939 \$7,944,315
		\$12,955,183		\$15,12	1,916	\$16,18	9,063	\$17,02	1,271	\$17,965	,300	\$18,80	1,846
Monthly Revenue	\$1,027,391	\$1,124,492	\$1,265,481	\$1,236,854	\$1,292,787	\$1,324,482	\$1,383,538	\$1,392,588	\$1,454,631	\$1,469,855	\$1,535,262	\$1,551,076	\$1,588,863
% Change		9.451%	12.538%	-2.3%	4.5%	2.5%	4.5%	0.7%	4.5%	1.0%	4.4%	1.0%	2.4%
	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31			
Revenue Recap	\$12,955,183	\$15,121,916	\$16,189,063	\$17,021,271	\$17,965,300	\$18,801,846	\$19,335,991	\$20,199,495	\$21,097,407	\$22,031,014			
Annual Revenue Requirement	\$14,518,310	\$15,121,916	\$16,192,563	\$17,028,551	\$17,979,657	\$18,823,836	\$19,369,702	\$20,245,833	\$21,160,930	\$22,113,028			
Transfer to/(from) Operating Reserves	(\$1,563,127)	\$0	(\$3,500)	(\$7,280)	(\$14,357)	(\$21,990)	(\$33,711)	(\$46,337)	(\$63,523)	(\$82,014) t	o Tab 4 Reserv	es	

FY 202	27-28	FY 202	8-29	FY 202	9-30	FY 203	80-31
_	_						
Jul 1 7	Feb 1 5	Jul 1 7	Feb 1 5	Jul 1 7	Feb 1 5	Jul 1 7	Feb 1 5
11,689	11,689	11,857	11,857	12,025	12,025	12,193	12,193
147	147	149	149	151	151	153	153
1,924	1,924	1,952	1,952	1,980	1,980	2,007	2,007
64	64	65	65	66	66	67	67
71	71	72	72	73	73	74	74
14	14	14	14	14	14	15	15
5	5	5	5	5	5	5	5
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
77	77	78	78	79	79	80	80
22	22	22	22	22	22	22	22
14,015	14,015	14,216	14,216	14,417	14,417	14,618	14,618
1.5%		1.4%		1.4%		1.4%	
\$23.51	\$24.21	\$24.21	\$24.94	\$24.94	\$25.69	\$25.69	\$26.46
\$53.63	\$55.24	\$55.24	\$56.89	\$56.89	\$58.60	\$58.60	\$60.36
\$23.51	\$24.21	\$24.21	\$24.94	\$24.94	\$25.69	\$25.69	\$26.46
\$103.83	\$106.94	\$106.94	\$110.15	\$110.15	\$113.45	\$113.45	\$116.86
\$164.07	\$168.99	\$168.99	\$174.06	\$174.06	\$179.28	\$179.28	\$184.66
\$354.83	\$365.47	\$365.47	\$376.44	\$376.44	\$387.73	\$387.73	\$399.36
\$605.83	\$624.00	\$624.00	\$642.72	\$642.72	\$662.00	\$662.00	\$681.86
\$1,358.83	\$1,399.59	\$1,399.59	\$1,441.58	\$1,441.58	\$1,484.83	\$1,484.83	\$1,529.37
\$2,814.63	\$2,899.07	\$2,899.07	\$2,986.04	\$2,986.04	\$3,075.62	\$3,075.62	\$3,167.89
\$4,220.23	\$4,346.84	\$4,346.84	\$4,477.25	\$4,477.25	\$4,611.56	\$4,611.56	\$4,749.91
\$5,324.64	\$5,484.38	\$5,484.38	\$5,648.91	\$5,648.91	\$5,818.37	\$5,818.37	\$5,992.92
\$1,923,338	\$1,415,027	\$2,009,510	\$1,478,425	\$2,099,121	\$1,544,354	\$2,192,301	\$1,612,907
\$55,231	\$40,634	\$57,706	\$42,455	\$60,279	\$44,348	\$62,955	\$46,317
\$316,649	\$232,963	\$330,836	\$243,401	\$345,590	\$254,255	\$360,930	\$265,542
\$46,677	\$34,341	\$48,769	\$35,880	\$50,943	\$37,480	\$53,205	\$39,144
\$81,806	\$60,186	\$85,471	\$62,882	\$89,283	\$65,687	\$93,246	\$68,602
\$34,804	\$25,606	\$36,364	\$26,753	\$37,985	\$27,946	\$39,671	\$29,187
\$19,808	\$14,573	\$20,696	\$15,226	\$21,619	\$15,905	\$22,578	\$16,611
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$23,007	\$16,926	\$24,038	\$17,685	\$25,110	\$18,473	\$26,224	\$19,293
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$2,501,321	\$1,840,258	\$2,613,389	\$1,922,708	\$2,729,930	\$2,008,448	\$2,851,111	\$2,097,603
619,965	442,832	628,875	449,196	637,785	455,561	646,695	461,925
281,771	201,265	285,821	204,158	289,870	207,050	293,920	209,943
378,212	270,152	383,648	274,034	389,084	277,917	394,520	281,800
			ĺ				
\$3.49	\$3.60	\$3.60	\$3.70	\$3.70	\$3.81	\$3.81	\$3.93
\$5.83	\$6.00	\$6.00	\$6.18	\$6.18	\$6.37	\$6.37	\$6.56
\$7.99	\$8.23	\$8.23	\$8.48	\$8.48	\$8.73	\$8.73	\$8.99
\$2,163,994	\$1,592,081	\$2,260,948	\$1,663,412	\$2,361,772	\$1,737,589	\$2,466,611	\$1,814,721

826,992 \$5,022,715 \$7,132,864 \$5,247,750 \$7,450,945 \$5,481,767 \$7,781,691 \$5,725,101 43,652 31,180 44,280 31,628 44,907 32,076 45,534 32,524 \$5,13 \$5,28 \$5,28 \$5,44 \$5,60 \$6,60 \$5,77 \$223,722 \$164,596 \$233,746 \$171,970 \$244,169 \$179,639 \$225,008 \$187,613.01 \$19,279 \$13,771 \$19,556 \$13,969 \$19,833 \$14,167 \$20,110 \$14,365 \$4,69 \$4,84 \$4,84 \$4,98 \$4,98 \$5,13 \$5,13 \$5,28 \$57,6 \$5,93 \$59,9 \$6,11 \$6,99 \$6,29 \$6,29 \$6,49 \$4,69 \$4,84 \$4,84 \$4,98 \$4,98 \$5,13 \$5,13 \$5,28 \$50,515 \$66,593 \$94,570 \$69,577 \$98,788 \$72,679 \$103,173 \$57,90,56 \$248,130 \$182,553 \$259,477 \$190,732 \$27,088<	,641,516 ,021,482	\$1,207,687 \$2,222,947	\$1,715,062 \$3,156,855	\$1,261,795 \$2,322,543	\$1,791,543 \$3,297,630	\$1,318,064 \$2,426,114	\$1,871,069 \$3,444,012	\$1,376,572 \$2,533,809
\$5.13 \$5.28 \$5.28 \$5.44 \$5.44 \$5.60 \$5.60 \$5.77 \$223,722 \$164,596 \$233,746 \$171,970 \$244,169 \$179,639 \$255,008 \$187,613.01 \$223,722 \$164,596 \$233,746 \$171,970 \$244,169 \$179,639 \$255,008 \$187,613.01 \$223,722 \$164,596 \$233,746 \$171,970 \$244,169 \$179,639 \$255,008 \$187,613.01 \$19,279 \$13,771 \$19,556 \$13,969 \$19,833 \$14,167 \$20,110 \$14,365 \$43,082 \$30,773 \$43,702 \$31,215 \$44,321 \$31,658 \$44,940 \$32,100 \$46.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$5.76 \$5.93 \$5.93 \$56.11 \$61.11 \$6.29 \$6.29 \$6.49 \$6.48 \$57.65 \$5.93 \$594,570 \$695,77 \$98,788 \$72,679 \$103,173 \$75,905,67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$333,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$61.14 \$61.653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$64.69 \$4.84 \$4.84 \$4.98 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$56.37 \$6.56 \$6.56 \$6.56 \$6.75 \$6.75 \$6.95 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$771,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,387 \$252,650 \$6.96 \$62,539 \$62,539 \$661,550 \$6.75 \$6.75 \$6.95 \$6.95 \$6.95 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.75 \$6.75 \$6.96 \$6.95 \$6.25 \$6.95 \$6.95 \$6.25 \$6.75 \$6.95 \$6	5,826,992							
\$\frac{\$223,722}\$\$\frac{\$164,596}{\$233,746}\$\$\frac{\$171,970}{\$244,169}\$\$\frac{\$179,639}{\$179,639}\$\$\frac{\$225,008}{\$5187,613.01}\$\$\frac{\$223,722}{\$22,3722}\$\$\frac{\$164,596}{\$523,3746}\$\$\frac{\$171,970}{\$244,169}\$\$\frac{\$179,639}{\$179,639}\$\$\frac{\$225,008}{\$5187,613.01}\$\$\frac{\$223,722}{\$43,022}\$\$\frac{\$13,771}{\$43,702}\$\$\frac{\$13,969}{\$42,212}\$\$\frac{\$19,833}{\$44,221}\$\$\frac{\$41,667}{\$45,082}\$\$\frac{{20,110}}{\$43,082}\$\$\frac{\$43,082}{\$30,773}\$\$\frac{\$43,082}{\$47,022}\$\$\frac{\$44,221}{\$44,221}\$\$\frac{{44,221}}{\$31,658}\$\$\frac{{44,940}}{\$44,940}\$\$\frac{{20,110}}{\$21,001}\$\$\frac{{43,655}}{\$44,940}\$\$\frac{{44,940}}{\$32,100}\$\$\frac{{52,85}}{\$5,76}\$\$\frac{{55,93}}{\$5.93}\$\$\frac{{55,11}}{\$56.11}\$\$\frac{{56,29}}{\$66.29}\$\$\frac{{56,528}}{\$66.49}\$\$\frac{{56,48}}{\$55,76}\$\$\frac{{55,93}}{\$59,33}\$\$\frac{{56,11}}{\$56.11}\$\$\frac{{56,29}}{\$62.99}\$\$\frac{{56,29}}{\$66.29}\$\$\frac{{56,48}}{\$56.48}\$\$\frac{{529,247}}{\$519,737}\$\$\frac{{570,808}}{\$59,397}\$\$\frac{{570,908}}{\$519,237}\$\$\frac{{570,908}}{\$282,829}\$\$\frac{{570,908}}{\$208,081}\$\$\frac{{570,908}}{\$338,645}\$\$\frac{{48,003}}{\$68,170}\$\$\frac{{48,693}}{\$62,539}\$\$\frac{{69,136}}{\$63,425}\$\$\frac{{49,383}}{\$90,036}\$\$\frac{{50,073}}{\$63,425}\$\$\frac{{50,073}}{\$90,036}\$\$\frac{{64,311}}{\$61,653}\$\$\frac{{56,259}}{\$63,425}\$\$\frac{{55,13}}{\$65,56}\$\$\frac{{55,13}}{\$56,56}\$\$\frac{{55,13}}{\$56,56}\$\$\frac{{55,13}}{\$56,56}\$\$\frac{{55,13}}{\$56,56}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,270}}{\$60,96}\$\$\frac{{544,362}}{\$62,599}\$\$\frac{{523,352}}{\$56,575}\$\$\frac{{56,96}}{\$60,96}\$\$\frac{{547,361}}{\$56,456}\$\$\frac{{547,361}}{\$56,46}\$\$\frac{{547,361}}{\$56,2597}\$\$\frac{{562,599}}{\$926,580}\$\$\frac{{561,698}}{\$561,969}\$\$\frac{{551,13}}{\$50,003}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\$\frac{{55,13}}{\$56,96}\$\${55,1	43,652	31,180	44,280	31,628	44,907	32,076	45,534	32,524
\$223,722 \$164,596 \$233,746 \$171,970 \$244,169 \$179,639 \$255,008 \$187,613 \$19,279 \$13,771 \$19,556 \$13,969 \$19,833 \$14,167 \$20,110 \$14,365 \$43,082 \$30,773 \$43,702 \$31,215 \$44,321 \$31,658 \$44,940 \$32,100 \$44,895 \$5.76 \$5.93 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$5.76 \$5.93 \$5.93 \$6.11 \$6.11 \$6.29 \$6.29 \$6.48 \$90,515 \$66,593 \$24,570 \$69,577 \$98,788 \$72,679 \$103,173 \$75,905,67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$3353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$86,314 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$54.88 \$6.37 \$6.37 \$6.56 \$6.56 \$6.56 \$6.75 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598,09 \$5333,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$5848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$5.28 \$5.74 \$55.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$55,13 \$51,13 \$5.28 \$5.74 \$55.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$55,13 \$51,35 \$5.28 \$6.75 \$5.92 \$6.90 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$55,13 \$57,92 \$49,940 \$175,056 \$52,771 \$38,824 \$55,13 \$51,35 \$52,8 \$53,449 \$153,579 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$526,1519 \$192,403 \$273,236 \$201,024 \$228,527 \$167,616 \$237,940 \$175,056 \$526,1519 \$192,403 \$273,236 \$201,024 \$228,527 \$29,64 \$29,64 \$30,52 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$	\$5.13	\$5.28	\$5.28	\$5.44	\$5.44	\$5.60	\$5.60	\$5.77
\$223,722 \$164,596 \$233,746 \$171,970 \$244,169 \$179,639 \$255,008 \$187,613 \$19,279 \$13,771 \$19,556 \$13,969 \$19,833 \$14,167 \$20,110 \$14,365 \$43,082 \$30,773 \$43,702 \$31,215 \$44,321 \$31,658 \$44,940 \$32,100 \$\$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$5.76 \$5.93 \$5.93 \$61.1 \$6.11 \$6.29 \$6.29 \$6.48 \$90,515 \$66,593 \$245,70 \$69,577 \$98,788 \$72,679 \$103,173 \$75,905,67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$3353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$\$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$86,314 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$\$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$6.56 \$6.56 \$6.56 \$6.75 \$6.75 \$6.96 \$\$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$339,648 \$264,598,09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 \$\$12,400 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$\$5.74 \$55.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$\$52,771 \$38,824 \$55,13 \$5.13 \$5.28 \$5.74 \$55.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$\$52,771 \$38,824 \$55,13 \$5.13 \$5.28 \$\$5.74 \$5.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$\$52,771 \$38,824 \$55,13 \$51,35,79 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$\$261,519 \$192,403 \$273,236 \$201,024 \$228,527 \$167,616 \$237,940 \$175,056 \$\$261,519 \$192,403 \$273,236 \$201,024 \$228,527 \$29,64 \$29,64 \$30,52 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$	\$223,722	\$164,596	\$233,746	\$171,970	\$244,169	\$179,639	\$255,008	\$187,613.01
43,082 30,773 43,702 31,215 44,321 31,658 44,940 32,100 \$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$55.76 \$5.93 \$55.93 \$66.11 \$6.29 \$6.29 \$6.48 \$90,515 \$66,593 \$94,570 \$69,577 \$98,788 \$72,679 \$103,173 \$75,905.67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 67,205 48,003 68,170 48,693 69,136 49,383 70,102 50,073 86,314 61,653 87,555 62,539 88,795 63,425 90,036 64,311 \$4.69 \$4,84 \$4,84 \$4,98 \$4,98 \$5.13 \$5.13 \$5.13 \$5.28 \$515,524 \$232,136 \$329,661 \$242,536 <								
\$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.29 \$6.48 \$5.76 \$5.93 \$5.93 \$6.11 \$6.11 \$6.29 \$6.29 \$6.48 \$5.76 \$5.93 \$5.93 \$6.11 \$6.11 \$6.29 \$6.29 \$6.48 \$5.76 \$5.93 \$5.93 \$6.11 \$6.11 \$6.29 \$6.29 \$6.48 \$5.76 \$5.93 \$5.93 \$6.11 \$6.11 \$6.29 \$6.29 \$6.48 \$5.76 \$5.95 \$103,173 \$75,905.67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$86,314 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$6.56 \$56.56 \$6.75 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$55.74 \$5.92 \$55.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$55,771 \$38,824 \$55,135 \$40,564 \$57,594 \$42,373 \$60,150 \$44,253,42 \$208,749 \$153,579 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$226,1519 \$192,403 \$273,236 \$201,024 \$285,421 \$209,988 \$298,091 \$219,310 \$777 \$77 \$78 \$78 \$78 \$79 \$79 \$80 \$80 \$80 \$222 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$	19,279	13,771	19,556	13,969	19,833	14,167	20,110	14,365
\$5.76 \$5.93 \$5.93 \$6.11 \$6.11 \$6.29 \$6.29 \$6.29 \$6.48 \$90,515 \$66,593 \$94,570 \$69,577 \$98,788 \$72,679 \$103,173 \$75,905,67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$86,314 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$44,699 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.13 \$5.28 \$61.18 \$6.37 \$66.37 \$66.37 \$65.56 \$6.56 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,616 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$5557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$446,98 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.96 \$6.96 \$6.28 \$6.75 \$6.75 \$6.75 \$6.96 \$6.75 \$6.75 \$6.96 \$6.75 \$6.96 \$6.75 \$6.96 \$6.75 \$6.96 \$6.96 \$6.28 \$6.96 \$6.96 \$6.28 \$6.96 \$6.9	43,082	30,773	43,702	31,215	44,321	31,658	44,940	32,100
\$90,515 \$66,593 \$94,570 \$69,577 \$98,788 \$72,679 \$103,173 \$75,905,67 \$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$66,314 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$46,69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$6.56 \$6.56 \$6.56 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$662,597 \$926,580 \$681,698 \$967,711 \$711,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$46.9 \$4.84 \$4.84 \$4.98 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.96 \$55.74 \$5.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$555,135 \$40,564 \$57,594 \$42,373 \$60,150 \$44,253.42 \$208,749 \$153,579 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$261,519 \$192,403 \$273,236 \$201,024 \$285,421 \$209,988 \$298,091 \$219,310 \$77 \$77 \$78 \$78 \$78 \$79 \$79 \$80 \$80 \$227,827 \$167,616 \$237,940 \$175,056 \$261,519 \$192,403 \$273,236 \$201,024 \$285,421 \$209,988 \$298,091 \$219,310	\$4.69	\$4.84	\$4.84	\$4.98	\$4.98	\$5.13	\$5.13	\$5.28
\$248,130 \$182,553 \$259,247 \$190,732 \$270,808 \$199,237 \$282,829 \$208,081 \$338,645 \$249,146 \$353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$66,314 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$44,699 \$4,84 \$4,84 \$4,98 \$4,98 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$6.56 \$6.56 \$6.56 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$11,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$55.74 \$55.92 \$5.92 \$6.09 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$55,135 \$40,564 \$57,594 \$42,373 \$60,150 \$44,253,42 \$208,749 \$153,579 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$261,519 \$192,403 \$273,236 \$201,024 \$285,727 \$29.64 \$29.64 \$30.52 \$354.83 \$365,47 \$365,47 \$376,44 \$376,44 \$387.73 \$387.73 \$389.36	\$5.76	\$5.93	\$5.93	\$6.11	\$6.11	\$6.29	\$6.29	\$6.48
\$338,645 \$249,146 \$353,817 \$260,308 \$369,595 \$271,917 \$386,002 \$283,987 \$67,205 \$48,003 \$68,170 \$48,693 \$69,136 \$49,383 \$70,102 \$50,073 \$63,14 \$61,653 \$87,555 \$62,539 \$88,795 \$63,425 \$90,036 \$64,311 \$46,69 \$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$6.56 \$6.56 \$6.56 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 \$11,240 \$8,028 \$11,401 \$8,144 \$11,563 \$8,259 \$17,724 \$8,375 \$36,348 \$25,963 \$36,871 \$26,336 \$37,393 \$26,709 \$37,916 \$27,083 \$46.99 \$4.84 \$4.84 \$4.98 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$5.74 \$5.92 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$55,135 \$5.92 \$6.09 \$6.09 \$6.28 \$6.28 \$6.28 \$6.46 \$52,771 \$38,824 \$557,356 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$261,519 \$192,403 \$273,236 \$201,024 \$228,5421 \$209,988 \$298,091 \$219,310 \$150,564 \$575,94 \$42,373 \$60,150 \$44,253.42 \$208,749 \$153,579 \$218,101 \$160,460 \$227,827 \$167,616 \$237,940 \$175,056 \$261,519 \$192,403 \$273,236 \$201,024 \$228,5421 \$209,988 \$298,091 \$219,310 \$22,22 \$22 \$22 \$22 \$22 \$22 \$22 \$22 \$22								
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86,314 61,653 87,555 62,539 88,795 63,425 90,036 64,311 \$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.28 \$6.18 \$6.37 \$6.37 \$6.56 \$6.56 \$6.75 \$6.75 \$6.96 \$315,524 \$232,136 \$329,661 \$242,536 \$344,362 \$253,352 \$359,648 \$264,598.09 \$533,463 \$392,476 \$557,364 \$410,060 \$582,218 \$428,346 \$608,063 \$447,361 \$848,987 \$624,612 \$887,024 \$652,597 \$926,580 \$681,698 \$967,711 \$711,959 11,240 8,028 11,401 8,144 11,563 8,259 11,724 8,375 36,348 25,963 36,871 26,336 37,393 26,709 37,916 27,083 \$4.69 \$4.84 \$4.84 \$4.98 \$4.98 \$5.13 \$5.13 \$5.13 \$5.28 \$52,771 \$38,824 \$55,135 \$40,564 \$57,594 \$42,373 \$60,150 \$44,253.42 \$208,749 </td <td>67 205</td> <td>48 003</td> <td>68 170</td> <td>18 693</td> <td>69 136</td> <td>/0 383</td> <td>70 102</td> <td>50 073</td>	67 205	48 003	68 170	18 693	69 136	/0 383	70 102	50 073
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\$2,501,321 \$118,756 \$8,499,865 \$11,119,942	\$1,840,258 \$122,319 \$6,253,472 \$8,216,049	\$2,613,389 \$122,690 \$8,880,688 \$11,616,768	\$1,922,708 \$126,371 \$6,533,649 \$8,582,728	\$2,729,930 \$126,754 \$9,276,711 \$12,133,394	\$2,008,448 \$130,556 \$6,825,009 \$8,964,013	\$2,851,111 \$130,950 \$9,688,502 \$12,670,563	\$2,097,603 \$134,879 \$7,127,970 \$9,360,451
\$19,335		\$20,199		\$21,097		\$22,031	
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	A	В	C	D	E	F	G	Н	1	J	K	L
1	Diablo Water District											
2	Water Rate Model											
3	Table 4 - Reserve Funds	Rate Adj. +/-	7.1%	4.0%	4.0%	4.0%	4.0%	2.0%	3.0%	3.0%	3.0%	3.0%
5	Fiscal Year	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31
6		11 2020 21										
7	FUND 01 General Operating Fund											
8	O&M (includes Rate Stabilization)											
9	Beginning Balance		\$3,136,421	\$1,187,341	\$620,737	\$762,770	\$227,591	(\$112,173)	\$863,965	\$2,132,595	\$3,149,610	\$3,629,643
10	Transfers											
11	(to/from) Operations		(\$1,563,127)	\$0	(\$3,500)	(\$7,280)	(\$14,357) (\$325,981)	(\$21,990)	(\$33,711)	(\$46,337)	(\$63,523)	(\$82,014)
13	(to/from) Rev. Requirements (to)/from Non-potable fund	-	\$300,000	(\$575,599)	\$138,650	(\$532,826)	(\$325,981)	\$994,387	\$1,287,433	\$1,037,072	\$509,829	\$1,311,701
14	Savings from delay of new hires		\$74,357									
15	Net additional CCWD (costs)/savings (deamand incre	ase partially offset	(\$579.357)									
16	Debt Service cost change	, ,	\$15,075									
17	(to/from) Capital											
18	(to/from) Emergency											
19	CalPERS Interfund Loan PMT - FUND 02	_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	Fund Subtotal		\$1,165,830	\$611,742	\$755,887	\$222,664	(\$112,747)	\$860,225	\$2,117,686	\$3,123,330	\$3,595,916	\$4,859,331
21 22	Estimated Interest Earnings		\$21,511	\$8,995	\$6,883	\$4,927	\$574	\$3,740	\$14,908	\$26,280	\$33,728	\$42,445
23	Ending Balance with Rate Increase Target Balance	\$3,136,421	\$1,187,341	\$620,737	\$762,770	\$227,591	(\$112,173)	\$863,965	\$2,132,595	\$3,149,610	\$3,629,643	\$4,901,775
24	l arget ваlance Fund Balance Compared to Target	\$4,810,253	\$4,810,253 25%	\$4,999,506 12%	\$5,001,066 15%	\$5,386,748 4%	\$5,580,014 -2%	\$5,427,203 16%	\$5,498,417 39%	\$5,788,503 54%	\$6,109,226 59%	\$6,222,373 79%
25	rana balance comparea to rarget		2370	1270	1370	4/0	-270	10%	33/0	34/0	35%	73/0
26	Capital											
27	<u>Capital</u> Beginning Balance		\$2,063,579	\$2,558,539	\$2,768,011	\$3,394,300	\$4,061,730	\$4,581,350	\$4,755,021	\$4,428,405	\$4,703,650	\$3,586,880
28	Revenues			. ,,	. , , -			. , ,	. ,,	. , .,	. ,	
29	(to/from) Rev. Requirements		\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728
30	(to/from) Operating Fund		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31 32	Cash Funded CIP Expenditures	_	(\$1,720,763)	(\$2,009,756)	(\$1,597,096)	(\$1,562,393)	(\$1,716,108)	(\$2,065,507)	(\$2,565,033)	(\$1,962,915)	(\$3,350,745)	(\$3,376,961)
	Fund Subtotal		\$2,535,543	\$2,741,510	\$3,363,642	\$4,024,635	\$4,538,350	\$4,708,571	\$4,382,716	\$4,658,217	\$3,545,633	\$2,402,646
33	Estimated Interest Earnings Ending Balance with Rate Increase	\$2,062,570	\$22,996 \$2,558,539	\$26,500 \$2,768,011	\$30,658 \$3,394,300	\$37,095 \$4,061,730	\$43,000 \$4,581,350	\$46,450 \$4,755,021	\$45,689 \$4,428,405	\$45,433 \$4,703,650	\$41,246 \$3,586,880	\$29,948 \$2,432,594
35	Taraet Balance	\$2,063,579 \$2,192,728	\$2,558,539 \$2,192,728	\$2,768,011 \$2,192,728	\$3,394,300 \$2,192,728	\$4,061,730 \$2,192,728	\$4,581,350 \$2,192,728	\$4,755,021 \$2,192,728	\$ 4,428,405 \$2,192,728	\$4,703,650 <i>\$2,192,728</i>	\$3,586,880 \$2,192,728	\$2,432,594 \$2,192,728
36	Fund Balance Compared to Target	<i>\$2,132,720</i>	117%	126%	155%	185%	209%	217%	202%	215%	164%	111%
37	and an analysis of the state of		/0		/-	/-	/-	//	/-		/0	-11/0
38	Emergency Reserve											
39	Beginning Balance		\$0	\$1,005,000	\$2,020,050	\$3,045,251	\$4,080,703	\$5,126,510	\$5,177,775	\$5,229,553	\$5,281,848	\$5,334,667
40	(to/from) Rev. Requirements		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$0	\$0
41	(to/from) Operating Fund	_	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
42	Fund Subtotal		\$1,000,000	\$2,005,000	\$3,020,050	\$4,045,251	\$5,080,703	\$5,126,510	\$5,177,775	\$5,229,553	\$5,281,848	\$5,334,667
43	Estimated Interest Earnings	40	\$5,000	\$15,050	\$25,201	\$35,453	\$45,807	\$51,265	\$51,778	\$52,296	\$52,818	\$53,347
45	Ending Balance with Rate Increase Target Balance	\$0	\$1,005,000 \$1,000,000	\$2,020,050 <i>\$2,000,000</i>	\$3,045,251 <i>\$3,000,000</i>	\$4,080,703 \$4,000,000	\$5,126,510 <i>\$5,000,000</i>	\$5,177,775 \$5,000,000	\$5,229,553 \$5,000,000	\$5,281,848 <i>\$5,000,000</i>	\$5,334,667 \$5,000,000	\$5,388,014 \$5,000,000
46	Fund Balance Compared to Target	30	101%	32,000,000	102%	102%	103%	104%	105%	106%	107%	33,000,000
46 47	rana balance compared to rarget		101/0	10170	102/0	102/0	10370	10470	103/0	100%	10770	100/0
48												
49	FUND 02 Facilities Reserve Fund											
50	Beginning Balance		\$6,200,000	\$7,426,616	\$6,120,119	\$5,357,003	\$5,567,466	\$5,636,426	\$5,862,899	\$6,188,383	\$6,556,300	\$6,405,810
51	Developer Fees Income		\$4,040,720	\$2,506,376	\$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$2,582,735	\$2,660,217	\$2,740,024	\$2,822,224
52	Non Operating Revenues		\$95,472	\$62,674	\$40,602	\$41,556	\$30,776	\$31,700	\$32,651	\$33,630	\$34,639	\$35,678
53 54	O&M Expenses		(\$817,598)	(\$1,003,092)	(\$1,102,837)	(\$1,094,777)	(\$1,224,022)	(\$1,220,685)	(\$1,259,886)	(\$1,351,752)	(\$1,676,412)	(\$1,509,007)
55	New Corp Yard Cash Expense Debt Service		\$0 (\$898,331)	\$0 (\$878,875)	(\$884,045)	\$0 (\$880,093)	\$0 (\$877,540)	\$0 (\$882,051)	\$0 (\$882,561)	(\$877,060)	\$0 (\$880,748)	\$0 (\$443,000)
56			(\$1,261,441)	(\$2,060,977)	(\$1,168,663)	(\$274,142)	(\$350,471)	(\$267,211)	(\$207,411)	(\$160,526)	(\$432,481)	(\$553,265)
57	CalPERS Interfund Loan - FUND 01		\$0	(+=/===/=::/	(+-)))	(+,)	(4000)=)	(+)	(+)	(+===)===)	(+ / /	(+/
58	CalPERS Interfund Loan PMT - FUND 01		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
59	Fund Subtotal	_	\$7,358,822	\$6,052,722	\$5,299,902	\$5,513,115	\$5,580,686	\$5,805,688	\$6,128,427	\$6,492,894	\$6,341,322	\$6,758,441
60	Estimated Interest Earnings		\$67,794	\$67,397	\$57,100	\$54,351	\$55,741	\$57,211	\$59,957	\$63,406	\$64,488	\$65,821
61	Ending Balance	\$6,200,000	\$7,426,616	\$6,120,119	\$5,357,003	\$5,567,466	\$5,636,426	\$5,862,899	\$6,188,383	\$6,556,300	\$6,405,810	\$6,824,262
62 63	Target Balance	\$3,000,000	\$3,000,000 248%	\$3,000,000 204%	\$3,000,000 179%	\$3,000,000 186%	\$3,000,000 188%	\$3,000,000 195%	\$3,000,000 206%	\$3,000,000 219%	\$3,000,000 214%	\$3,000,000 227%
64	Fund Balance Compared to Target		248%	204%	179%	186%	188%	195%	206%	219%	214%	227%
65												
66	Operating Fund w/o Rate Increases											
67	Beginning Balance		\$3,136,421	\$829,112	(\$2,685,865)	(\$6,192,850)	(\$11,067,819)	(\$16,497,544)	(\$21,261,572)	(\$26,221,610)	(\$32,120,539)	(\$39,274,210)
68	Transfers											
69	(to/from) Operations		(\$2,109,498)	(\$2,939,377)	(\$3,645,635)	(\$4,342,143)	(\$5,103,743)	(\$5,758,415)	(\$6,247,471)	(\$6,936,002)	(\$7,663,500)	(\$8,427,999)
70	(to/from) Rev. Requirements		(\$217,540)	(\$575,599)	\$138,650	(\$532,826)	(\$325,981)	\$994,387	\$1,287,433	\$1,037,072	\$509,829	\$1,311,701
71 72	(to/from) Capital Reserve		\$0 \$0	\$0 \$0	\$0 60	\$0	\$0	\$0	\$0 \$0	\$0 60	\$0 60	\$0
73	(to/from) Emergency CalPERS Interfund Loan PMT - FUND 02		\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
74	Fund Subtotal	_	\$809,383	(\$2.685.865)	(\$6.192.850)	(\$11.067.819)	(\$16,497,544)	(\$21,261,572)	(\$26,221,610)	(\$32.120.539)	(\$39.274.210)	\$0 (\$46.390.508)
75	Estimated Interest Earnings		\$19,729	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
76	Ending Balance with Rate Increase	\$3,136,421	\$829,112	(\$2,685,865)	(\$6,192,850)	(\$11,067,819)	(\$16,497,544)	(\$21,261,572)	(\$26,221,610)	(\$32,120,539)	(\$39,274,210)	(\$46,390,508)
77	Target Balance	\$4,810,253	\$4,810,253	\$4,999,506	\$5,001,066	\$5,386,748	\$5,580,014	\$5,427,203	\$5,498,417	\$5,788,503	\$6,109,226	\$6,222,373
78	Fund Balance Compared to Target		17%	-54%	-124%	-205%	-296%	-392%	-477%	-555%	-643%	-746%
79												
80												
81 82	Reserve Funds Summary Total Ralance with Rate Increases (Corrected)	\$5,200,000	\$4,745,880	\$5,388,748	\$7,157,070	\$8,289,321	\$9,469,177	\$10,618,986	\$11,560,999	\$12,853,260	\$12,216,523	\$12,334,369
83	Total Balance with Rate Increases (Corrected) Total Balance with Rate Increases (Corrected)	\$5,200,000	\$4,750,880	\$5,408,798	\$7,202,321	\$8,370,024	\$9,595,687	\$10,796,761	\$11,790,552	\$12,853,260	\$12,551,190	\$12,722,383
	Total Balance w/o Rate Increases	\$5,200,000	\$3,387,651	\$82,146	(\$2,798,550)	(\$7,006,090)	(\$11,916,194)	(\$16,506,551)	(\$21,793,205)	(\$27,416,889)	(\$35,687,331)	(\$43,957,914
85					, ,					,		
86	O&M Target Balance	\$3,310,253	\$3,310,253	\$3,499,506	\$3,501,066	\$3,886,748	\$4,080,014	\$3,927,203	\$3,998,417	\$4,288,503	\$4,609,226	\$4,722,373
87						4.						
88	O&M + Rate Stabilization Target	\$4,810,253	\$4,810,253	\$4,999,506	\$5,001,066	\$5,386,748	\$5,580,014	\$5,427,203	\$5,498,417	\$5,788,503	\$6,109,226	\$6,222,373
89	Fund 01 Capital Target	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728	\$2,192,728
90	Reserve Target	\$7,002,981	\$7,002,981	\$7,192,234	\$7,193,794	\$7,579,476	\$7,772,741	\$7,619,931	\$7,691,145	\$7,981,231	\$8,301,954	\$8,415,100
92	Emergency Reserve Target	\$0	\$1,000,000	\$2,000,000	\$3,000,000	\$4,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
93	Reserve Target with Capital and Emergency Reserve:	\$7,002,981	\$8,002,981	\$9,192,234	\$10,193,794	\$11,579,476	\$12,772,741	\$12,619,931	\$12,691,145	\$12,981,231	\$13,301,954	\$13,415,100
94	Garage Transfer of the Control of th	. ,,	,,	,,	,,	,, 0	,,- 1-	,,	,,- 13	,,	,,	,,,
's IIC		-	-	-		-	-			-	-	DWD Rate Model 11

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1 Diablo Water District	ь	C	U .	C		G		'	,	K	
2 Water Rate Model											
— · · · · · · · · · · · · · · · · · · ·											
4											
5											
6											Total
7 Fund 01 Projects	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	Project Cost
8											
9 PAYGo Funded Projects											
10 Public Right of Way Relocations	\$135,000	\$150,000	\$154,500	\$159,135	\$163,909	\$168,826	\$173,891	\$179,108	\$184,481	\$190,016	\$1,658,866
11 RBWTP - Projects & Improvements (WTP 66.5% GF & 33.5% FR)	\$591,178	\$290,000	\$780,809	\$722,869	\$816,726	\$1,039,020	\$877,131	\$247,000	\$833,262	\$1,095,928	\$7,293,923
12 Additional RBWTP Projects	\$14,000										\$14,000
13 Field Equipment Purchases	\$51,500	\$151,500	\$101,500	\$51,500	\$51,500	\$81,500	\$51,500	\$51,500	\$201,500	\$51,500	\$845,000
14 Valve Replacement	\$25,000	\$25,750	\$26,523	\$27,318	\$28,138	\$28,982	\$29,851	\$30,747	\$31,669	\$32,619	\$286,597
15 Add/Replace Vehicles - Construction Trucks 50% GF and 50% FR	\$177,500	\$140,000	\$150,000	\$160,000	\$170,000	\$180,000	\$0	\$70,000	\$150,000	\$0	\$1,197,500
16 Corpyard VFD's	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,000
17 R1/R2 Seismic Upgrades - 52% GF and 48% FR	\$300,040	\$900,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200,940
18 Scada Upgrade - 50% GF and 50% FR	\$18,000	\$10,000	\$10,000	\$10,000	\$18,500	\$10,000	\$10,000	\$10,000	\$250,000	\$260,000	\$606,500
19 New Office Equipment	\$0	\$0	\$0	\$19,000	\$0	\$0	\$0	\$0	\$22,500	\$0	\$41,500
20 Radio Read Upgrade	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
											**
· · · · · · · · · · · · · · · · · · ·	\$13,545	\$13,951	\$14,370	\$14,801	\$15,245	\$20,702	\$16,173	\$16,659	\$17,158	\$17,673	\$160,278
	\$20,000	\$20,600	\$21,218	\$21,855	\$22,510	\$23,185	\$23,881	\$24,597	\$25,335	\$26,095	\$229,278
23 Maint T&D	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24 Additional CIP Placeholder	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,500,000
25	\$1,720,763	\$1,952,701	\$1,508,920	\$1,436,477	\$1,536,527	\$1,802,216	\$2,182,428	\$1,629,611	\$2,715,906	\$2,673,832	\$19,159,382
26 ENR Multiplier	1.000	1.029	1.058	1.088	1.117	1.146	1.175	1.205	1.234	1.263	
27 Project Costs Escalated	\$1,720,763	\$2,009,756	\$1,597,096	\$1,562,393	\$1,716,108	\$2,065,507	\$2,565,033	\$1,962,915	\$3,350,745	\$3,376,961	
28											
29											Total
30	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	Project Cost
31 PAYGo Funded Projects	\$1,720,763	\$1,952,701	\$1,508,920	\$1,436,477	\$1,536,527	\$1,802,216	\$2,182,428	\$1,629,611	\$2,715,906	\$2,673,832	\$19,159,382
32 ENR Multiplier	1.000	1.029	1.058	1.088	1.117	1.146	1.175	1.205	1.234	1.263	
33 Project Costs Escalated	\$1,720,763	\$2,009,756	\$1,597,096	\$1,562,393	\$1,716,108	\$2,065,507	\$2,565,033	\$1,962,915	\$3,350,745	\$3,376,961	\$21,927,279
34	¥-/·/·	+=//	+ - //	+-,,	+-//	+- //	+=//		ual Cash-Funded CIP	\$2,192,728	+/·/-··
35								/werage / ii//ii	adi casii i diidca cii	<i>\$2,132,720</i>	
36											
37											Total
	EV 2024 22	EV 2022 22	EV 2022 24	EV 2024 2E	FY 2025-26	FY 2026-27	FY 2027-28	FV 2020 20	FY 2029-30	FY 2030-31	
38 Fund 02 Projects	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25				FY 2028-29			Project Cost
					2023 20		2027 20		2023 30		.,
39					2023 20		11202720		2025 30		, , , , , , , , , , , , , , , , , , , ,
40 PAYGo Funded Projects											
40 PAYGo Funded Projects 41 Scada Upgrade - 50% GF and 50% FR	\$15,000	\$10,000	\$10,000	\$10,000	\$18,500	\$10,000	\$10,000	\$10,000	\$10,000	\$20,000	\$123,500
40 PAYGo Funded Projects	\$15,000 \$50,301	\$10,000 \$50,868									
40 PAYGo Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR			\$10,000	\$10,000	\$18,500	\$10,000	\$10,000	\$10,000	\$10,000	\$20,000	\$123,500
40 PAYGo Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update	\$50,301	\$50,868	\$10,000 \$52,244	\$10,000 \$68,661	\$18,500 \$55,121	\$10,000 \$56,624	\$10,000 \$58,173	\$10,000 \$59,768	\$10,000 \$61,411	\$20,000 \$63,104	\$123,500 \$576,273
August A	\$50,301 \$0	\$50,868 \$0	\$10,000 \$52,244 \$0	\$10,000 \$68,661 \$0	\$18,500 \$55,121 \$0	\$10,000 \$56,624 \$0	\$10,000 \$58,173 \$0	\$10,000 \$59,768 \$0	\$10,000 \$61,411 \$0	\$20,000 \$63,104 \$0	\$123,500 \$576,273 \$0
40 PAYGo Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects	\$50,301 \$0 \$121,941 \$39,500	\$50,868 \$0 \$0 \$0	\$10,000 \$52,244 \$0 \$254,397 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0	\$10,000 \$61,411 \$0 \$279,131 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment)	\$50,301 \$0 \$121,941 \$39,500 \$282,500	\$50,868 \$0 \$0 \$0 \$0 \$847,500	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0	\$10,000 \$58,173 \$00 \$108,300 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0	\$10,000 \$61,411 \$0 \$279,131	\$20,000 \$63,104 \$00 \$354,964 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000
40 PAYGo Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50%GF and 50% FR	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50%GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50%GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000
40 PAYGo Funded Projects Scada Upgrade - 50% GF and 50% FR 22 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50%GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$0	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000
40 PAYGo Funded Projects Scada Upgrade - 50% GF and 50% FR 22 Asset Management System / GIS / Mapping Update 3 New Software - 50% GF and 50% FR RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 44 Additional RBWTP Projects 5 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$277,200	\$50,868 \$0 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$262,500 \$831,600	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects 13 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 3 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50%GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$313,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000
40 PAYGo Funded Projects Scada Upgrade - 50% GF and 50% FR 24 Asset Management System / GIS / Mapping Update 34 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50%GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel RZ/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 ENR Multiplier	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441 1.000	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000 \$1	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$13,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,0000000000	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$176,473	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10,000 \$10	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 44 Additional RBWTP Projects 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 64 ENR Multiplier 64 Project Costs Escalated	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$313,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 44 Additional RBWTP Projects 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 64 ENR Multiplier 64 Project Costs Escalated	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441 1.000	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000 \$1	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$13,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,0000000000	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$176,473	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10,000 \$10	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 44 Additional RBWTP Projects 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 64 ENR Multiplier 64 Project Costs Escalated	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441 1.000	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000 \$0 \$0 \$10,000 \$	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$131,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,146 \$267,211	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$176,473 \$1,175 \$207,411	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,234 \$432,481	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects 41 Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 44 Additional RBWTP Projects 45 Additional RBWTP Projects 46 Stonecreek Well Filter (Manganese Treatment) 47 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 64 ENR Multiplier 64 Project Costs Escalated	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441 1.000	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141 \$1.058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000 \$1	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$13,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,0000000000	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$176,473	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10 \$10,000 \$10	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$10,000 \$0 \$0 \$10,000 \$	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$131,796	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,146 \$267,211	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$176,473 \$1,175 \$207,411	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,234 \$432,481	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 500 Stonecreek Well Filter (Manganese Treatment) 44 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 61 Grant Permanent Generator 62 Parallel R2/R3 Transmission Main 63 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 64 Project Costs Escolated 65 65 65 65 65 65 65 6	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$262,500 \$831,500 \$2,002,468 1.029 \$2,060,977	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$0 \$1,104,141 \$1.058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$11,117 \$350,471	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 500 Stonecreek Well Filter (Manganese Treatment) 44 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 61 Grant Permanent Generator 62 Parallel R2/R3 Transmission Main 63 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 64 Project Costs Escolated 65 65 65 65 65 65 65 6	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$0 \$277,200 \$1,261,441 1.000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 1.058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$1313,796 1.117 \$350,471	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$1,146 \$267,211	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 \$234 \$432,481	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$0 \$277,200 \$1,261,441 1,000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 \$1,058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.088 \$274,142 Allocation Factor b	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$131,796 1.117 \$350,471 Average Day	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1,205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1.000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 1.058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$13,796 1.117 \$350,471 Average Day \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.234 \$432,481 Service Charge \$1,658,866 \$7,293,923	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1.000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$20,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,50 \$1,104,141 1.058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1313,796 1.117 \$350,471 Average Day \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$2 \$1.234 \$432,481 \$432,481 \$432,481	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1,000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 1.058 \$1,168,663	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity Capacity Capacity Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$131,796 1.117 \$350,471 Average Day	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1.000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Prc Field Equipment Purcl Valve Replacement	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$845,000 \$286,597	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity Capacity Capacity Capacity Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,117 \$350,471 Average Day c	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$250 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1.000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$847,500 \$0 \$0 \$20 \$20,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Prc Field Equipment Purcl Valve Replacement Add/Replace Vehicles	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity Capaci	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.117 \$350,471 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$00 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$20 \$1.234 \$432,481 \$432,481 \$432,481 \$432,481	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1,000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$0 \$202,500 \$831,600 \$2,002,468 1.029 \$2,000,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Prc Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 \$1,058 \$1,168,663 \$1,168,866 \$7,293,923 \$14,000 \$845,000 \$286,597 \$1,197,500 \$125,000	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1117 \$350,471 Average Day \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$0 \$277,200 \$1,261,441 1,000 \$1,261,441 1 2 3 4 4 5 6 6 7 8	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$847,500 \$0 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Profield Equipment Purch Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$845,000 \$286,597 \$1,197,500 \$1,250,000 \$1,200,940	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 \$1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$131,796 1.117 \$350,471 Average Day \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$50 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$250,000 \$225,000 \$277,200 \$1,261,441 1.000 \$1,261,441 1 2 3 4 5 6 6 7 8 8	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$0 \$20,500 \$831,600 \$2,002,468 1,029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP pro Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$286,597 \$1,197,500 \$125,000 \$1,200,940 \$606,500	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$131,796 1.117 \$350,471 Average Day \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.234 \$432,481 Service Charge \$1,658,866 \$7,293,923 \$14,000 \$286,597 \$1,197,500 \$1,250,0940 \$606,500	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$225,000 \$1,261,441 1.000 \$1,261,441	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$20,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Prc Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade New Office Equipmen	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 \$1.058 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$286,597 \$1,197,500 \$125,000 \$1,200,940 \$606,500 \$41,500	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,17 \$350,471 Average Day c \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$250,000 \$0 \$277,200 \$1,261,441 1,000 \$1,261,441 1 2 3 4 5 6 6 7 7 8 9	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$0 \$20,500 \$831,600 \$2,002,468 1,029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP pro Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,168,663 \$1,168,663 \$1,20,240 \$1,20,240 \$1,20,940 \$606,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,200,940 \$606,500 \$1,5	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$50 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 46 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 ENR Multiplier 54 Project Costs Escalated 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$250,000 \$225,000 \$277,200 \$1,261,441 1.000 \$1,261,441 1 2 3 4 5 6 6 7 7 8 8 9 10	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$0 \$20,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Prc Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade New Office Equipmen	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 \$1.058 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$286,597 \$1,197,500 \$125,000 \$1,200,940 \$606,500 \$41,500	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 46 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 ENR Multiplier 54 Project Costs Escalated 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71	\$50,301 \$0 \$121,941 \$39,500 \$282,5000 \$0 \$250,000 \$1,261,441 1.000 \$1,261,441 1 2 3 4 5 6 6 7 8 8 9	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$847,500 \$0 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Prc Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade New Office Equipmen Radio Read Upgrade	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,168,663 \$1,168,663 \$1,20,240 \$1,20,240 \$1,20,940 \$606,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,500 \$1,200,940 \$606,500 \$1,5	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 \$1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$50 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 46 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 ENR Multiplier 54 Project Costs Escalated 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71	\$50,301 \$0 \$121,941 \$39,500 \$282,5000 \$0 \$225,000 \$1,261,441 1.000 \$1,261,441 1 2 3 4 5 6 6 7 8 9 10 11 11 12 13	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$847,500 \$0 \$0 \$0 \$262,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Pre Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade New Office Equipmen Radio Read Upgrade Corpyard Improvemer	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$845,000 \$286,597 \$1,197,500 \$125,000 \$1,200,940 \$606,500 \$41,500 \$0 \$1,50	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$133,268 1.205 \$160,526	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 46 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 ENR Multiplier 54 Project Costs Escalated 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71	\$50,301 \$0 \$121,941 \$39,500 \$282,5000 \$0 \$250,000 \$225,000 \$1,261,441 1,000 \$1,261,441 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$847,500 \$0 \$0 \$0 \$20,500 \$831,600 \$2,002,468 1.029 \$2,060,977 Project Public Right of Way Re RBWTP - Projects & In Additional RBWTP Pro Field Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade New Office Equipmen Radio Read Upgrade Corpyard Improvemet Pipeline Corrosion Tes	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$787,500 \$1,104,141 \$1.058 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$286,597 \$1,197,500 \$1,200,940 \$606,500 \$41,500 \$606,500 \$41,500 \$20,278 \$229,278	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1117 \$350,471 Average Day c \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 46 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 ENR Multiplier 54 Project Costs Escalated 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71	\$50,301 \$0 \$121,941 \$39,500 \$282,5000 \$0 \$250,000 \$225,000 \$1,261,441 1,000 \$1,261,441 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$847,500 \$0 \$0 \$0 \$202,500 \$831,600 \$2,002,468 1.029 \$2,000,977 Project Public Right of Way ReRBWTP - Projects & In Additional RBWTP Profield Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade Corpyard Improvement Pipeline Corrosion Tes Maint T&D Maint T&D Maint T&D	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,168,663 \$1,168,663 \$1,168,000 \$286,597 \$1,197,500 \$1,200,940 \$606,500 \$41,500 \$1,500,278 \$1,500	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 \$1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
40 PAYGO Funded Projects Scada Upgrade - 50% GF and 50% FR 42 Asset Management System / GIS / Mapping Update 43 New Software - 50% GF and 50% FR 44 RBWTP Improvements and Projects - 66.5% GF and 33.5% FR 45 Additional RBWTP Projects 45 Stonecreek Well Filter (Manganese Treatment) 46 Add/Replace District Vehicles - Construction Trucks 50% GF and 50% FR 48 Relocation of Downtown Railroad Pipeline - 20% GF and 80% FR 49 Glen Park Permanent Generator 50 Parallel R2/R3 Transmission Main 51 R1 and R2 Seismic Upgrades - 52% GF and 48% FR 52 53 ENR Multiplier 54 Project Costs Escalated 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71	\$50,301 \$0 \$121,941 \$39,500 \$282,500 \$0 \$255,000 \$0 \$277,200 \$1,261,441 1,000 \$1,261,441 1 2 3 4 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$847,500 \$0 \$0 \$0 \$202,500 \$831,600 \$2,002,468 1.029 \$2,000,977 Project Public Right of Way ReRBWTP - Projects & In Additional RBWTP Profield Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade Corpyard Improvement Pipeline Corrosion Tes Maint T&D Maint T&D Maint T&D	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$845,000 \$286,597 \$1,197,500 \$125,000 \$1,200,940 \$606,500 \$41,500 \$1,500,940 \$606,500 \$41,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$1,500	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 \$1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$50 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$51,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$225,000 \$1,050,000 \$1,108,800
August A	\$50,301 \$0 \$121,941 \$39,500 \$282,5000 \$0 \$225,000 \$1,261,441 1.000 \$1,261,441 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16	\$50,868 \$0 \$0 \$0 \$0 \$847,500 \$0 \$0 \$847,500 \$0 \$0 \$0 \$202,500 \$831,600 \$2,002,468 1.029 \$2,000,977 Project Public Right of Way ReRBWTP - Projects & In Additional RBWTP Profield Equipment Purcl Valve Replacement Add/Replace Vehicles Corpyard VFD's R1/R2 Seismic Upgrad Scada Upgrade Corpyard Improvement Pipeline Corrosion Tes Maint T&D Maint T&D Maint T&D	\$10,000 \$52,244 \$0 \$254,397 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,104,141 \$1.058 \$1,168,663 \$1,168,663 \$1,658,866 \$7,293,923 \$14,000 \$845,000 \$286,597 \$1,197,500 \$125,000 \$1,200,940 \$606,500 \$41,500 \$1,500,940 \$606,500 \$41,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$606,500 \$1,500,940 \$1,500	\$10,000 \$68,661 \$0 \$173,388 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$252,048 \$1.088 \$274,142 Allocation Factor b Capacity	\$18,500 \$55,121 \$0 \$240,175 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.117 \$350,471 Average Day c \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$56,624 \$0 \$166,526 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1.146 \$267,211 Maximum Day d \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$10,000 \$58,173 \$0 \$108,300 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$59,768 \$0 \$63,500 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$10,000 \$61,411 \$0 \$279,131 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$20,000 \$63,104 \$0 \$354,964 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,263	\$123,500 \$576,273 \$0 \$1,762,321 \$39,500 \$1,130,000 \$0 \$250,000 \$1,050,000 \$1,050,000 \$1,050,000 \$4,050,000 \$1,050,000

	Α	В	С	D	E	F	G	Н	I	J	K
1	Diablo Water District										
2	Water Rate Model										
3	Table 6 - Debt Service & Coverage										
4	_										
5											
6							Projected				
7		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31
8											
9	Operations Fund D/S										
10	2019 COPs (Refinancing of 2010s)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	2019 COPs (Restructuring of 2014s)	\$150,880	\$149,500	\$150,880	\$149,155	\$150,190	\$148,120	\$148,810	\$149,270	\$149,500	\$0
12	2019 COPs (\$4M New Money)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	2022 COPs (Refinancing of 2013s)	\$100,715	\$116,158	\$115,275	\$115,752	\$116,070	\$116,229	\$116,229	\$116,070	\$115,752	\$0
14	Total	\$251,595	\$265,658	\$266,155	\$264,907	\$266,260	\$264,349	\$265,039	\$265,340	\$265,252	\$0
15											
16	Facilities Fund D/S										
17	2019 COPs (Refinancing of 2010s)	\$234,200	\$233,800	\$238,200	\$237,200	\$231,000	\$234,800	\$238,200	\$231,200	\$234,200	\$231,800
18	2019 COPs (Restructuring of 2014s)	\$111,520	\$110,500	\$111,520	\$110,245	\$111,010	\$109,480	\$109,990	\$110,330	\$110,500	\$0
19	2019 COPs (\$4M New Money)	\$215,200	\$212,400	\$214,600	\$211,600	\$213,600	\$215,400	\$212,000	\$213,600	\$215,000	\$211,200
20	2022 COPs (Refinancing of 2013s)	\$337,411	\$322,175	\$319,725	\$321,048	\$321,930	\$322,371	\$322,371	\$321,930	\$321,048	\$0
21		\$898,331	\$878,875	\$884,045	\$880,093	\$877,540	\$882,051	\$882,561	\$877,060	\$880,748	\$443,000
22											
	Future Operations Fund D/S										
	Full GHG Offset, New Corp Yard, 2013 refi	\$37,500	\$257,700	\$484,800	\$482,200	\$484,400	\$481,200	\$482,800	\$484,000	\$484,800	\$485,200
25	Mains and Service Line Replacements #1	\$0	\$0	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058	\$153,058
26	Mains and Service Line Replacements #2	\$0	\$0	\$0	\$0	\$0	\$173,490	\$173,490	\$173,490	\$173,490	\$173,490
27	Mains and Service Line Replacements #3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$195,154	\$195,154
28	Bond Fund CIP (FYs 2022-23, 2023-24)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29		\$37,500	\$257,700	\$637,858	\$635,258	\$637,458	\$807,748	\$809,348	\$810,548	\$1,006,502	\$1,006,902
30									•		
31	Total Debt Service	\$1,187,426	\$1,402,233	\$1,788,058	\$1,780,258	\$1,781,258	\$1,954,148	\$1,956,948	\$1,952,948	\$2,152,502	\$1,449,902
32											
33	Debt Coverage Calculation										
34											
35	Rate Revenue	\$12,955,183	\$15,121,916	\$16,189,063	\$17,021,271	\$17,965,300	\$18,801,846	\$19,335,991	\$20,199,495	\$21,097,407	\$22,031,014
36	Connection Fees	\$4,040,720	\$2,506,376	\$2,294,727	\$2,363,569	\$2,434,476	\$2,507,510	\$2,582,735	\$2,660,217	\$2,740,024	\$2,822,224
37	Non-Operating Income	\$986,987	\$1,016,596	\$1,047,094	\$1,078,507	\$1,110,862	\$1,144,188	\$1,178,514	\$1,213,869	\$1,250,285	\$1,287,794
38	Interest Income	\$44,507	\$35,496	\$37,541	\$42,022	\$43,575	\$50,190	\$60,597	\$71,713	\$74,974	\$72,392
39	Total Funds Available w/ Connection Fees	\$18,027,397	\$18,680,384	\$19,568,425	\$20,505,368	\$21,554,212	\$22,503,734	\$23,157,837	\$24,145,294	\$25,162,690	\$26,213,425
40	Total Funds Available w/o Connection Fees	\$13,986,677	\$16,174,008	\$17,273,698	\$18,141,799	\$19,119,736	\$19,996,224	\$20,575,102	\$21,485,077	\$22,422,666	\$23,391,200
41	, , , , , , , , , , , , , , , , , , , ,	, -,,-	, ,, ,	. , .,	, ,	, -, -,	,,	,,	. ,,-		, ,
42	Expenses										
43	Fund 01 O&M	\$12,241,013	\$12,998,025	\$13,004,266	\$14,546,991	\$15,320,054	\$15,708,811	\$15,993,668	\$17,154,013	\$18,436,904	\$18,889,490
44	Fund 02 O&M	\$817,598	\$1,003,092	\$1,102,837	\$1,094,777	\$1,224,022	\$1,220,685	\$1,259,886	\$1,351,752	\$1,676,412	\$1,509,007
45	Total Expenses	\$13,058,611	\$14,001,118	\$14,107,103	\$15,641,768	\$16,544,076	\$16,929,496	\$17,253,555	\$18,505,765	\$20,113,316	\$20,398,497
46	· ·				. , ,						
47	Net Revenue w/ Connection Fees	\$4,968,785	\$4,679,266	\$5,461,322	\$4,863,600	\$5,010,136	\$5,574,238	\$5,904,282	\$5,639,530	\$5,049,374	\$5,814,928
48	Net Revenue w/o Connection Fees	\$928,065	\$2,172,890	\$3,166,595	\$2,500,031	\$2,575,660	\$3,066,728	\$3,321,547	\$2,979,312	\$2,309,350	\$2,992,703
49											•
50	Debt Service	\$1,187,426	\$1,402,233	\$1,788,058	\$1,780,258	\$1,781,258	\$1,954,148	\$1,956,948	\$1,952,948	\$2,152,502	\$1,449,902
51	Debt Coverage Ratio w/ Connection Fees	4.18	3.34	3.05	2.73	2.81	2.85	3.02	2.89	2.35	4.01
52	Debt Coverage Ratio w/o Connection Fees	0.78	1.55	1.77	1.40	1.45	1.57	1.70	1.53	1.07	2.06
53											
54											
55	Allocation of 2022 Bond Debt Service										
56											
57	Refunding 2013 COPs - Par Amount		\$438,333	\$435,000	\$436,800	\$438,000	\$438,600	\$438,600	\$438,000	\$436,800	\$0
58	Capital Projects Financing - Par Amount		\$257,700	\$484,800	\$482,200	\$484,400	\$481,200	\$482,800	\$484,000	\$484,800	\$485,200
59	Annual Total D/S	-	\$696,033	\$919,800	\$919,000	\$922,400	\$919,800	\$921,400	\$922,000	\$921,600	\$485,200
60											
	Refunding 2013 COPs allocation	Alloc %	\$438,333	\$435,000	\$436,800	\$438,000	\$438,600	\$438,600	\$438,000	\$436,800	\$0
62	Operations Fund	26.50%	\$116,158	\$115,275	\$115,752	\$116,070	\$116,229	\$116,229	\$116,070	\$115,752	\$0 \$0
63	Facilities Fund	73.50%	\$322,175	\$319,725	\$321,048	\$321,930	\$322,371	\$322,371	\$321,930	\$321,048	\$0
64		<u>-</u>	\$438,333	\$435,000	\$436,800	\$438,000	\$438,600	\$438,600	\$438,000	\$436,800	\$0
65											
66	Recap of D/S by Fund										
67	Operations Fund										
68	100% of Capital Projects Financing		\$257,700	\$484,800	\$482,200	\$484,400	\$481,200	\$482,800	\$484,000	\$484,800	\$485,200
69	Allocated % of Refunding 2013 COPs		\$116,158	\$115,275	\$115,752	\$116,070	\$116,229	\$116,229	\$116,070	\$115,752	\$0
70	Total		\$373,858	\$600,075	\$597,952	\$600,470	\$597,429	\$599,029	\$600,070	\$600,552	\$485,200
71											
72	Facilities Fund		\$322,175	\$319,725	\$321,048	\$321,930	\$322,371	\$322,371	\$321,930	\$321,048	\$0
73											
	Grand Total		\$696,033	\$919,800	\$919,000	\$922,400	\$919,800	\$921,400	\$922,000	\$921,600	\$485,200
75		check s/b \$0>	\$0	\$0	16 -6 \$0	\$0	\$0	\$0	\$0	\$0	DWD Nate Miga

			5	-	-	C			
1	A Diablo Wate	B C	D	E	F	G	Н	ı	J
	Water Rate I								
_	Table 9 - Allo								
4									
5			De	mand Services		C	ustomer Services		
6			Average	Maximum	Maximum		Service		
7		System-Wide Cost Allocation Factors	Day	Day	Hour	Accounts	Charge	Total	
8		Daniel Cambridge	a	b	С	d	e	f	
9 10	1 2		100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	
11	3		64.5%	35.5%	0.0%	0.0%	0.0%	100.0%	
12	4	1 Max Hour	34.5%	18.9%	46.6%	0.0%	0.0%	100.0%	
13	5	<u>Customer Services</u>							
14	6		0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	
15	7	7 Accounts	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%	
16 17	8 9		85.1%	12.9%	0.4%	4.1%	-2.4%	100.0%	
18		10 CIP Composite	0.0%	0.0%	0.4%	0.0%	100.0%	100.0%	
19		11 Exp Composite	63.9%	9.7%	0.3%	3.0%	23.1%	100.0%	
20									
21									
22							Services	Custome	er Services
23			FY 2021-22	Allocation	Average	Maximum	Maximum		
24 25			Revenue Requirement	Factor b	Day c	Day d	Hour e	Accounts	Capacity
26	1	L Direct O&M	a	D	C	u	e	'	g
27	2								
28	3	· · · · · · · · · · · · · · · · · · ·	\$278,500	Average Day	\$278,500	\$0	\$0	\$0	\$0
29	4		\$48,000	Accounts	\$0	\$0	\$0	\$48,000	\$0
30	5		\$41,000	Max Hour	\$14,137	\$7,767	\$19,096	\$0	\$0
31	6		\$17,000	Max Day	\$10,972	\$6,028	\$0	\$0	\$0
32	8	7 Maintenance Glen Park Well B Maintenance Stonecreek Well	\$10,260 \$10,260	Max Day Max Day	\$6,622 \$6,622	\$3,638 \$3,638	\$0 \$0	\$0 \$0	\$0 \$0
34	°		\$5,250	Average Day	\$5,250	\$5,036	\$0	\$0	\$0 \$0
35		10 Water Samples	\$80,000	Average Day	\$80,000	\$0	\$0	\$0	\$0
36		11 Transmission and Distribution	, ,	,	,,				, .
37		12 Chemicals Glen Park Well	\$7,210	Max Day	\$4,653	\$2,557	\$0	\$0	\$0
38		13 Chemicals Blending Facility	\$25,100	Max Day	\$16,200	\$8,900	\$0	\$0	\$0
39 40		L4 Chemicals Stonecreek Well L5 Chemicals Delta Coves	\$5,000	Max Day	\$3,227	\$1,773	\$0	\$0 \$0	\$0 \$0
41		L5 Chemicals Delta Coves L6 General Operating - T&D	\$7,000 \$178,030	Average Day Average Day	\$7,000 \$178,030	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
42		17 General Operating Blending	\$36,450	Max Day	\$23,525	\$12,925	\$0	\$0	\$0
43		18 General Operating Glen Park Well	\$3,000	Max Day	\$1,936	\$1,064	\$0	\$0	\$0
44	1	19 General Operating Stonecreek Well	\$3,000	Max Day	\$1,936	\$1,064	\$0	\$0	\$0
45		20 General Operating Delta Coves	\$1,000	Average Day	\$1,000	\$0	\$0	\$0	\$0
46		21 Water Purchases - Source of Supply CCV			40	40	40	4.0	400
47 48		22 Service Charge 23 Demand Charge	\$93 \$683,453	Capacity Max Day	\$0 \$441,112	\$0 \$242,341	\$0 \$0	\$0 \$0	\$93 \$0
49		24 Volumetric Charge	\$3,606,119	Average Day	\$3,606,119	\$242,341	\$0	\$0	\$0
50		25 Additional Water Purchases from CCW		Average Day	\$500,000	\$0	\$0	\$0	\$0
51	2	26 Water Treatment and Maintenance - RE		- '		•			
52		27 Randall Bold Water Treatment Plant O	&M \$1,886,016	Max Day	\$1,217,265	\$668,751	\$0	\$0	\$0
53		Other Expenses	400		A	4 -	4-2		A-
54 55		Pipeline Corrosion Testing/Repairs Groundwater Sustainability Expenses	\$20,000 \$0	Average Day	\$20,000 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
56		Groundwater Sustainability Expenses Fire Hydrant Maintanence	\$25.000	Average Day Accounts	\$0 \$0	\$0 \$0	\$0 \$0	\$25,000	\$0 \$0
57		32 Water Conservation Program	\$25,000	Max Hour	\$8,620	\$4,736	\$11,644	\$23,000	\$0
58	3	33 Finance	\$185,000	Accounts	\$0	\$0	\$0	\$185,000	\$0
59		34 Customer Service	\$46,000	Accounts	\$0	\$0	\$0	\$46,000	\$0
60		Non-Operating Revenue						,	/A :
61 62		36 Check Valve Maintenance 37 Check Valve Installation	(\$170,000)	Capacity	\$0 \$0	\$0 \$0	\$0	\$0 \$0	(\$170,000)
63		37 Check Valve Installation 38 Destroyed Lock Charges	(\$2,600) \$0	Capacity Capacity	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$2,600) \$0
64		39 Tampering Charges	(\$10,000)	Capacity	\$0 \$0	\$0 \$0	\$0	\$0	(\$10,000)
65		10 Meter Repairs	(\$530)	Capacity	\$0	\$0	\$0	\$0	(\$530)
66	4	11 Hydrant Meter Replacement	(\$3,183)	Max Hour	(\$1,097)	(\$603)	(\$1,482)	\$0	\$0
67		12 Delta Coves Property Tax Income	(\$59,883)	Average Day	(\$59,883)	\$0	\$0	\$0	\$0
68	4	13 Total Allocable 0	D&M \$7,486,544		\$6,371,747	\$964,577	\$29,258	\$304,000	(\$183,037)

П	Α	В	С	D	E	F	G	Н	I	J
69		44	O&M Composite			85.1%	12.9%	0.4%	4.1%	-2.4%
70		45								
71		46	Debt Service	\$289,095	Capacity	\$0	\$0	\$0	\$0	\$289,095
72		47		40.400.700		40	40	40	40	40 400 700
73 74		48 49	Capital Expenses (PayGo)	\$2,192,728	CIP Composite	\$0	\$0	\$0	\$0	\$2,192,728
75		50	Subtotal - O&M, Debt Service, and Capital	\$9,968,367		\$6,371,747	\$964,577	\$29,258	\$304,000	\$2,298,786
76		51	Subtotal - Odivi, Best Service, and Capital	\$5,500,501	% of Consumption	86.5%	13.1%	0.4%	2304,000	\$2,230,700
77		52	Expense Composite		% of total	63.9%	9.7%	0.3%	3.0%	23.1%
78		53	p p		,					
79		1	Composite Allocations							
80		2	Operations & Maintenance							
81		3	Maintenance Corpyard	\$25,000	O&M Composite	\$21,277	\$3,221	\$98	\$1,015	(\$611)
82		4	General Operating Corpyard	\$40,950	O&M Composite	\$34,852	\$5,276	\$160	\$1,663	(\$1,001)
83		5	Telephone Services for Field	\$8,450	O&M Composite	\$7,192	\$1,089	\$33	\$343	(\$207)
84 85		6	Utilities for Field	\$172,450 \$87,000	O&M Composite O&M Composite	\$146,771	\$22,219	\$674 \$340	\$7,003 \$3,533	(\$4,216)
86		8	Automotive Fuel, Maintenance, Misc Other	\$87,000	Owivi Composite	\$74,045	\$11,209	\$340	\$3,533	(\$2,127)
87		9	Corpyard Improvements	\$13,545	O&M Composite	\$11,528	\$1,745	\$53	\$550	(\$331)
88		10	Additional Staff	\$13,343	O&M Composite	\$0	\$0	\$0	\$0	\$0
89		11	Administrative and General	\$162,575	O&M Composite	\$138,366	\$20,946	\$635	\$6,602	(\$3,975)
90		12	Board of Directors	\$27,562	O&M Composite	\$23,458	\$3,551	\$108	\$1,119	(\$674)
91		13	Office	\$223,870	O&M Composite	\$190,534	\$28,844	\$875	\$9,091	(\$5,473)
92		14	Insurance	\$85,000	O&M Composite	\$72,343	\$10,952	\$332	\$3,452	(\$2,078)
93		15	Legal Expenses	\$39,000	O&M Composite	\$33,193	\$5,025	\$152	\$1,584	(\$954)
94		16	Training	\$42,800	O&M Composite	\$36,427	\$5,514	\$167	\$1,738	(\$1,046)
95 96		17 18	Total Composite Expenses	\$928,202		\$789,986	\$119,591	\$3,627	\$37,691	(\$22,693)
96		19	Subtotal O&M, Capital, Non-Operating	\$10,896,569		\$7,161,733	\$1,084,168	\$32,885	\$341,691	\$2,276,092
98		20	Expense Allocation	\$10,030,303		65.7%	9.9%	0.3%	3.1%	20.9%
99		21								
100		22	Payroll - Salaries/Benefits/Taxes	\$3,179,691	Exp Composite	\$2,032,448	\$307,679	\$9,333	\$96,969	\$733,262
101		23	Engineering							
102		24	Engineering	\$215,000	Exp Composite	\$137,427	\$20,804	\$631	\$6,557	\$49,581
103		25	Consulting	\$185,380	Exp Composite	\$118,494	\$17,938	\$544	\$5,653	\$42,750
104		26	Non-Operating Revenue	(455,000)		(444 540)	(45,000)	(4404)	(44.000)	(44.4.000)
105 106		27 28	Late Charges	(\$65,000)	Exp Composite	(\$41,548)	(\$6,290)	(\$191)	(\$1,982)	(\$14,990)
107		28 29	Trip Charges Call-Out Charges	(\$26,523) (\$2,500)	Exp Composite Exp Composite	(\$16,953) (\$1,598)	(\$2,566) (\$242)	(\$78) (\$7)	(\$809) (\$76)	(\$6,116) (\$577)
108		30	Returned Item Charges	(\$2,500)	Exp Composite	(\$1,598)	(\$242)	(\$7)	(\$76)	(\$577)
109		31	Hydrant Meter Repairs	\$0	Accounts	\$0	\$0	\$0	\$0	\$0
110		32	Field Service Charges	(\$1,591)	Exp Composite	(\$1,017)	(\$154)	(\$5)	(\$49)	(\$367)
111		33	Bad Debt Recovery	(\$2,652)	Exp Composite	(\$1,695)	(\$257)	(\$8)	(\$81)	(\$612)
112		34	Retirees Health Benefits - OPEB	(\$65,376)	Exp Composite	(\$41,788)	(\$6,326)	(\$192)	(\$1,994)	(\$15,076)
113		35	Other Income	(\$25,750)	Exp Composite	(\$16,459)	(\$2,492)	(\$76)	(\$785)	(\$5,938)
114		36	Rental Income	(\$127,308)	Exp Composite	(\$81,375)	(\$12,319)	(\$374)	(\$3,882)	(\$29,358)
115 116		37	Southpark Well - M24	(\$5,517)	Exp Composite	(\$3,526)	(\$534)	(\$16)	(\$168)	(\$1,272)
116		38 39	Knightsen Well - M25	(\$5,252) (\$10,821)	Exp Composite	(\$3,357) (\$6,917)	(\$508) (\$1.047)	(\$15)	(\$160) (\$330)	(\$1,211) (\$2,495)
118		39 40	Willow Park Marina Well - M27 Reimbursement from Developers	(\$10,821) (\$400,000)	Exp Composite Exp Composite	(\$6,917) (\$255,679)	(\$1,047) (\$38,706)	(\$32) (\$1,174)	(\$330) (\$12,199)	(\$2,495)
119		41	Total Non-Operating	\$2,839,281	Exp composite	\$1,814,859	\$274,740	\$8,333	\$86,588	\$654,761
120		42	Total Itoli Speruting	<i>\$2,033,201</i>		72,02.,033	<i>\$2.7.1,7.10</i>	70,333	400,000	Ç03.,, 01
121		43	Transfers to/(from) Reserves	(\$217,540)	Exp Composite	(\$139,051)	(\$21,050)	(\$638)	(\$6,634)	(\$50,166)
122		44	Emergency Reserve - Tier 1	\$1,000,000	Average Day	\$1,000,000	\$0	\$0	\$0	\$0
123		45								
124		46	Total Revenue Requirement	\$14,518,310	·	\$9,837,540	\$1,337,858	\$40,580	\$421,645	\$2,880,687
125		47						\$11,215,978	\$421,645	\$2,880,687
126		48				% of revenue	e requirement	77.3%		22.7%
127		49						Consumption Charge COS	Servi	ce Charge COS

	Α	В	С	D	E	F	G	Н
1		۰	er District		-	'	<u> </u>	
2			Model					
3			d Factors					
4	1000-	Loa	1 444013					
5				Lav	els of Demand (h of \		
6	ł			Average	Maximum	Maximum		
7				_	Day	Hour		
8				Day a	b	C		
9		1	Demand by Customer Category (hcf)	-	b I	C		
10		2	Residential - SF	5,688	8,485	17,829		
11		3	Residential - MF	194	198	180		
12		4	Non Residential	277	490	221		
13	 	5	Hydrant	211	400	600		
14	1	6	Irrigation	682	1,354	1,622		
15		7	Total	7,052	10,927	20,453		
16		8	Ratio of Flows to Average Day	7,032	10,327	20,433		
17		9	Residential - SF	1.00	1.49	3.13		
18		10	Residential - MF	1.00	1.02	0.93		
19		11	Non Residential	1.00	1.77	0.80		
20		12	Hydrant	1.00	1.89	2.84		
21		13	Irrigation	1.00	1.98	2.38		
22		14	Total	1.00	1.55	2.90		
23		15						
24		16	Level of Service	7,052	10,927	20,453		
25		17	Average Day Demand	7,052	7,052	7,052		
26		18	Ratio of Level of Service to Average	1.00	1.55	2.90		
27								
28								
29					Der	nand Service Le	vels	
30	l	1		Load	Average	Maximum	Maximum	
31	1		Allocation Basis	Factors	Day	Day	Hour	Totals
32				а	b	c	d	е
33		1	Average Day	1.00	1.00			1.00
34		2	Allocation %		100%			100%
35	1	3						
36		4	Maximum Day	1.55	1.00	0.55		1.55
37		5	Allocation %		64.5%	35.5%		100%
38		6						
39		7	Maximum Hour	2.90	1.00	0.55	1.35	2.90
40		8	Allocation %		34.5%	18.9%	46.6%	100%
41								

	Α	В	С	D	Е	F	G	Н
42								
43				Average	Maximum	Maximum		
44			Flow per Customer	Day	Day	Hour		
45			Residential - SF					
46			hcf per day	5,688	8,485	17,829		
47			hcf per month	170,627	254,549		x 30 days	
48			# of Accounts	12,075	12,075			
49			Average flow per Acct (hcf/mo)	14.0	21.0	21+	hcf per month	÷ Monthly bills
50								
51			Residential - MF					
52			hcf per day	194	198	180		
53			hcf per month	5,819	5,953			
54			# of Accounts	21	21			
55			Average flow per Acct (hcf/mo)	277.0	283.0	283+		
56								
57			Non Residential					
58			hcf per day	277	490	221		
59			hcf per month	8,313	14,691			
60			# of Accounts	246	246			
61			Average flow per Acct (hcf/mo)	34.0	60.0	60+		
62								
63			Irrigation					
64			hcf per day	682	1,354	1,622		
65			hcf per month	20,465	40,610			
66			# of Accounts	181	181			
67			Average flow per Acct (hcf/mo)	113.0	225.0	225+		
68								
69			Hydrant					
70			hcf per day	211	400	600		
71			hcf per month	6,344	12,000			
72			# of Accounts	55	55			
73			Average flow per Acct (hcf/mo)	115.0	218.0	218+		
74								
75			Combined					
76			hcf per day	7,052	10,927	20,453		
77			hcf per month	211,569	327,802			
78			# of Accounts	12,577	12,577			
79			Average flow per Acct (hcf/mo)	17.0	26.0	26+		
80								

	Α	В	С	D	F	F	G	Н	
1	Diablo Wa	_		D	E	г	G	П	'
2	Water Rate	_							
3		_	Imption Charges						
4	Table 3 - C	UIISC	imption charges						
5									
6				Average	Maximum	Maximum			
7			Consumption Charge Cost of Serv	Day	Dav	Hour	Total		
8			consumption charge cost of serv	a	b b	C	d		
9		1	Operations & Maintenance	\$7.161.733	\$1,084,168	\$32,885	\$8,278,786		
10		2	Debt Service	\$0	\$0	\$0	\$0		
11		3	Capital Expenses (PayGo)	\$0	\$0	\$0	\$0		
12		4	Non-Operating Revenue	\$1,814,859	\$274,740	\$8,333	\$2,097,932		
13		5	Transfers to/(from) Reserves	\$860,949	(\$21,050)	(\$638)	\$839,261		
14		6	Total Consumption Charge COS	\$9,837,540	\$1,337,858	\$40,580	\$11,215,978	TRUE	
15		7							
16		8	Units of Service (hcf)						
17		9	Residential - SF	5,688	8,485	17,829			
18		10	Residential - MF	194	198	180			
19		11	Non Residential	277	490	221			
20		12	Hydrant	211	400	600			
21		13	Irrigation	682	1,354	1,622			
22		14		7,052	10,927	20,453			
23		15	Proportional Allocation Factors						
24		16	Residential - SF	80.65%	77.65%	87.17%			
25		17	Residential - MF	2.75%	1.82%	0.88%			
26		18	Non Residential	3.93%	4.48%	1.08%			
27		19	Hydrant	3.00%	3.66%	2.93%			
28		20	Irrigation	9.67%	12.39%	7.93%			
29		21		100.00%	100.00%	100.00%			
30		22		47.000.005	44 000 004	405.075	40.000.404		
37		23	Residential - Single Family	\$7,933,835	\$1,038,891	\$35,375	\$9,008,101		
46 55		24	Residential - Multi Family	\$270,580	\$24,295	\$358 \$438	\$295,234		
64		25	Non Residential	\$386,552 \$294,979	\$59,956 \$48,976	\$438 \$1,190	\$446,946 \$345,145		
73		26	Hydrant Irrigation	\$294,979	\$48,976	\$3,218	\$1,120,553		
77			Grand Total Consumption Charge	\$9,837,540	\$1,337,858	\$3,218	\$1,120,553	\$0.00	
78		20	Grand Total Consumption Charge	<i>\$3,037,</i> 540	\$1,337,030	34U,36U	J11,213,376	\$0.00	
10									

	Α	В	С	D	E	F	G	Н	I
79									
80				Revenue	at Rates	Revi	sed	Differ	ence
81			Components of Rate Structure	as of 2/	1/2021	Cost-of-	Service	COS Minus	Current
82				a	b	С	d	e	f
83		1	Water Charge Revenue	\$9,367,728	75.5%	\$11,215,978	77.3%	\$1,848,251	19.7%
84		2	Service Charge Revenue	\$3,041,084	24.5%	\$3,302,331	22.7%	\$261,247	8.6%
85		3	Total	\$12,408,812	100.0%	\$14,518,310	100.0%	\$2,109,498	17.0%
86		4							
87		5	Water Charge Revenue						
88		6	Residential	\$7,486,455	79.9%	\$9,008,101	80.3%	\$1,521,646	20.3%
89		7	Multi Family	\$268,234	2.9%	\$295,234	2.6%	\$27,000	10.1%
90		8	Non Residential	\$379,879	4.1%	\$446,946	4.0%	\$67,067	17.7%
91		9	Irrigation	\$940,806	10.0%	\$1,120,553	10.0%	\$179,747	19.1%
92		10	Hydrant	\$292,354	3.1%	\$345,145	3.1%	\$52,791	18.1%
93		11		\$9,367,728	100.0%	\$11,215,978	100.0%	\$1,848,251	19.7%
94									

	Α	В	С	D	E	F	G	Н	ı
1	Diabl	o Water District	-						
2	Wate	r Rate Model							
3	Tab 1	0. Fixed Monthly Charges							
4									
5									
6		Account and EMU Summa	ry						
7		Service	# of	Meter	Capacity				
8		Size	Accounts	Ratings (gpm)	Multiplier*	EMUs			
9			а	b	$c = b \div 20$	a * c			
10		5/8" meters	10,492	20	1.00	10,492	C712-15 Single		
11		1" meters	132	50	2.50	330	C712-15 Singlej		
12		1" w/ Fire meters	1,727	20	1.00	1,727	C712-15 Singlej		
13		1 1/2" meters	58	100	5.00	288	C712-15 Singlej		
14		2" meters	64	160	8.00	511	C712-15 Singlej		
15 16		3" meters	13	350 600	17.50	220	Compound Typ		+
17		4" meters 6" meters	4 0	600	30.00	126 0	Compound Typ		
18		8" meters	0 1	1350 2800	67.50 140.00	0 147	Compound Typ Turbine Class II		
19		10" meters	0	4200	210.00	0	Turbine Class II		
20		12" meters	0	5300	265.00	0	Turbine Class II		
21		Fire Services [1]	69	23.6	1.18	82	Set to maintain		
22		Fire Hydrant Meters [2]	44	350	17.50	770	Same as 3 inch		
23		Total Accounts	12,604		Total EMUs				
24			,			,			
25		Units Costs	\$421,645			\$2,880,687			
26									
27		Monthly Cost							
28		per Account	\$2.79						
29		per EMU				\$16.34			
30									
31									
32									
33									
34		Meter Charge Unit Cost Ca							
35			Service Charge		Total Service				
36			Accounts	Capacity	Charge	l			
37		Operations & Maintenar	\$341,691	(\$205,730)	\$135,960				
38		Debt Service	\$0	\$289,095	\$289,095	From Table 9			
39 40		Capital Expenses (PayGo	\$0	\$2,192,728	\$2,192,728	From Table 9			
40		Non-Operating Revenue	\$86,588	\$654,761	\$741,349	From Table 9			
41		Transfers to/(from) Rese	(\$6,634)	(\$50,166)	(\$56,801)	From Table 9	\$0		
43		Service Charge Expenses	\$421,645	\$2,880,687	\$3,302,331 100%		\$0		
44		% of Component	13%	87%	100%				
45		Units of Service	12,604	14,693					
46		Jinto of Screece	Accounts	EMUs					
47				2,1103			1		
48		Monthly Cost							
49		per Account	\$2.79						
50		per EMU	• •	\$16.34					
51									

	Α	В	С	D	E	F	G	Н	I
52		Expenses from Tab 8. Alloc	cations						
53									

	Α	В	С	D	E	F	G	Н	1
54									
55									
56									
57				Account	Ca	Capacity Component			Proposed
58		Service	% of	Component		Capacity	Capacity	Service Charges	Service Charges
59		Size	Meters	(\$/mo.)	\$/EMU	Multiplier	Total	(\$/mo.)	(\$/mo.)
60				а	b	С	d = b * c	e = a + d	f = e + 3.0%
61		5/8" meters	83.2%	\$2.79	\$16.34	1.00	\$16.34	\$19.13	\$19.70
62		1" meters	1.0%	\$2.79	\$16.34	2.50	\$40.84	\$43.63	\$44.94
63		1" w/ Fire meters	13.7%	\$2.79	\$16.34	1.00	\$16.34	\$19.13	\$19.70
64		1 1/2" meters	0.5%	\$2.79	\$16.34	5.00	\$81.69	\$84.48	\$87.01
65		2" meters	0.5%	\$2.79	\$16.34	8.00	\$130.70	\$133.49	\$137.49
66		3" meters	0.1%	\$2.79	\$16.34	17.50	\$285.91	\$288.70	\$297.36
67		4" meters	0.0%	\$2.79	\$16.34	30.00	\$490.13	\$492.92	\$507.71
68		6" meters	0.0%	\$2.79	\$16.34	67.50	\$1,102.80	\$1,105.59	\$1,138.76
69		8" meters	0.0%	\$2.79	\$16.34	140.00	\$2,287.29	\$2,290.08	\$2,358.78
70		10" meters	0.0%	\$2.79	\$16.34	210.00	\$3,430.94	\$3,433.73	\$3,536.74
71		12" meters	0.0%	\$2.79	\$16.34	265.00	\$4,329.52	\$4,332.31	\$4,462.28
72		Fire Services	0.5%	\$2.79	\$16.34	1.18	\$19.28	\$22.07	\$22.73
73		Fire Hydrant Meters	0.3%	\$2.79	\$16.34	17.50	\$285.91	\$288.70	\$297.36
74									