Review of Proposed FY 2023 & FY 2024 Biennial Budget and Charges

GLWA Board of Directors

February 23, 2022



Financial Plan Schedule

- 11/9/2021 Capital Improvement Programs (Rollout #1)
- 11/16/2021 Preliminary Units of Service (Rollout #2)
- 12/17/2021 Regular Audit Committee Budget Session #1 (receives long-term forecast; budget draft; charges strategy)
- 1/6/2022 Preliminary Proposed FY 2023 Budget and Financial Plan and Preliminary Charges (Rollout #3)
- 1/20/2022 Follow Up Review Session (Rollout #4)
- 1/21/2022 Special Audit Committee Budget Session #2
- 1/26/2022 Board Briefing Budget, Charges, Financial Plan
- 2/11/2022 Special Audit Committee Meeting Budget Session #3
- 2/23/2022 GLWA Public Hearing; Board action follows on or after this date after Public Hearing conducted
- **7/1/2022** Effective Date for Charges



Executive Summary of FY 2023 & FY 2024 Budget and FY 2023 Charge Proposals



Three Key BUDGET Categories

"BUDGET" = "Revenue Requirement"

- 1. Operations & Maintenance Expense
- 2. Capital Program Funding (Past, Present, and Future)
 - ✓ Debt Service
 - ✓ Deposit to the Improvement and Extension (I&E) Fund (a/k/a Revenue Financed Capital Improvements or Paygo Capital)
- 3. Non-Operating Commitments
 - ✓GLWA's Share of the Closed, Legacy DWSD Pension Liability Pool
 - ✓ Water Residential Assistance Program Deposit
 - ✓ Lease Payment

Note: Master Bond Ordinance defines (*in much greater detail*) how funds received are prioritized among the above categories



Water System









88 Member Partners across **112** communities



Treatment capacity of **1,720** million gallons per day





19 BOOSTER PUMP STATIONS



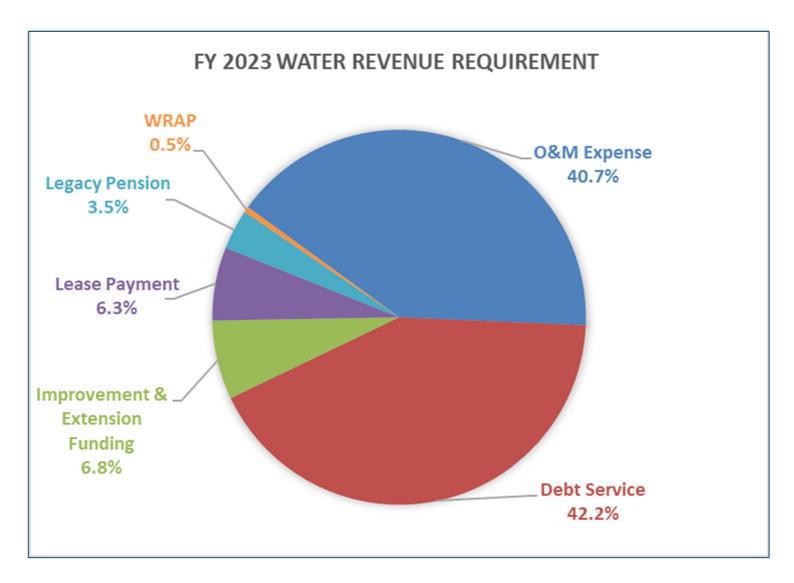


MISSION:

To exceed our member partner's expectations by utilizing best practices in the treatment and transmission of water and wastewater, while promoting health communities and economic growth.



FY 2023 Proposed Water Revenue Requirement



Total Budget \$356 Million

3.5% Increase (\$12 Million) from prior year driven by 11% increase in debt service category

Nearly 100% funded by service charges



Wastewater System



The largest single-site wastewater treatment facility in the United States









19 Member Partners across **79** communities



Treatment capacity of **1,700** million gallons per day













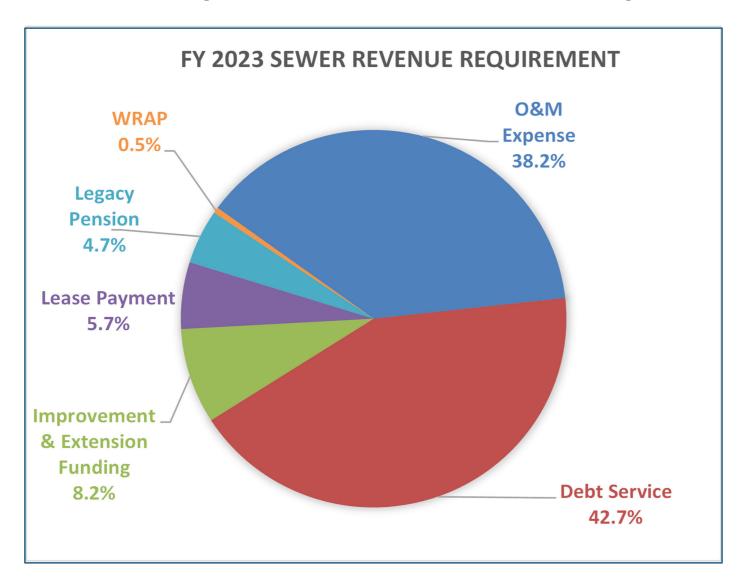
944 SQ. MILE service area

VISION:

Through regional collaboration, GLWA strives to be the provider of choice, dedicated to efficiently and effectively delivering the nation's best water and sewer services in partnership with our member partners.



FY 2023 Proposed Sewer Revenue Requirement



Total Budget \$481 Million

1.3% Increase (\$6 Million) from prior year driven nearly equally by O&M and capital program

Nearly 100% funded by service charges



Financial Plan Highlights

System	Water	Sewer		
Theme	Capital and O&M Pressures	Long-term Sustainability in		
		Sight		
Annual Revenue	3.5% (less than the 4%	1.3% (less than the 4%		
Requirement	Promise)	Promise)		
Increase Limit				
Capital Spending	Assumes an 80% of CIP Spend	Assumes a 75% of CIP Spend		
Ratio	Rate thru 2027 then 100%	Rate thru 2027 then 100%		
Reliance on Debt	More	Less		
for Capital				
Debt Service	Declines	Improves		
Coverage Ratios				
Risks that we are	Increased Capital vs. 3.5%	Increased Regulatory and		
managing	Revenue Assumption	Resiliency Requirements		
	Increased Regulatory	Legacy Pension		
	Requirements			
	Legacy Pension			



Financial Plan Highlights - continued

System	Water	Sewer		
0&M Biennial	Overall increase of 0.6% for	Overall increase of 1.5% for FY		
Budget	FY 2023 and 2.7% for FY	2023 and 2.9% for FY 2024		
Forecast -	2024	Emphasis on recruitment and		
FY 2023	Strategic Emphasis on Water	retention base level wage		
& FY 2024	Technician Apprenticeship	adjustments in some		
	Program for recruitment,	classifications		
	retention, and succession	Increase in Central & Admin for		
	planning (25 positions)	Planning CIP Group, new		
	Increase in Central & Admin for Planning CIP Group, new emergency management group, and staff recruitment	emergency management group, and staff recruitment		
O&M Forecast	Average of 2.0% in total	Average of 2.0% in total		
Over the Five				
Year Plan				
GLWA	10			

Financial Plan Highlights - continued

System	Water	Sewer		
Debt Service -	Debt Service will increase in both years	Debt Service will decline in FY 2023		
Biennial Budget	FY 2023 \$14.9 million higher than	and then increase in FY 2024		
FY 2023 & FY 2024	approved FY 2022 Budget due to: Naturally occurring amortization schedule variances; Progress on DWRF Funded CIP projects; Forecasted Revenue Bond Sale	FY 2023 \$1.6 million lower than approved FY 2022 Budget due to: Naturally occurring amortization schedule variances; Recognition of lower variable rate interest on 2006D Bonds; FY 2024 increase due to Forecasted Revenue Bond Sale		
Debt Service -	Continued steady increases to support	Relatively minor increases		
Forecast for	additional forecasted bond sales and			
FYs 2025 - 2027	DWRF activity			
FY 2032 Debt Service Coverage Forecast – 10 Year Plan (GLWA Share) GLWA Great Lakes Water Authority	Forecasted FY 2027 Debt Service is \$50 million (37%) higher than Amended FY 2022 Budget FY 2032 Debt Service Coverage: 1.32x	Forecasted FY 2027 Debt Service is less than \$17.5 million (~ 9%) higher than Amended FY 2022 Budget FY 2032 Debt Service Coverage: 1.64x		

Financial Plan Highlights - continued

System	Water	Sewer
Other Revenue	Legacy Pension Allocation is	Legacy Pension Allocation is
Requirements	fixed through FY 2023	fixed through FY 2023
	Forecasted reduction	Forecasted reduction
	starting in FY 2024	starting in FY 2024
	Future amounts subject	Future amounts subject to
	to actuarial updates	actuarial updates
	Total Lease Payment is fixed	Total Lease Payment is fixed
	@ \$50 million for life of the	@ \$50 million for life of the
	Lease - Amount allocated to	Lease - Amount allocated to
	Water is \$22.5 million	Sewer is \$27.5 million
	WRAP Deposit fixed at 0.5%	WRAP Deposit fixed at 0.5%
	of revenue from charges	of revenue from charges



Water Charges Overview

Proposed 3.7% System Increase = 3.5% Budget Increase + 0.2% to address negative budgeted sales revenue variance

Proposed FY 2023 Water Charges represent a <u>uniform</u> 3.4% increase over existing charges for 84 of the 88 Member Partners

- Slightly lower than that (~ 2.9%) for the 3 Non Master Metered Member Partners
- St. Clair County DPW now a Model Contract customer and proposed charges reflect contract demands

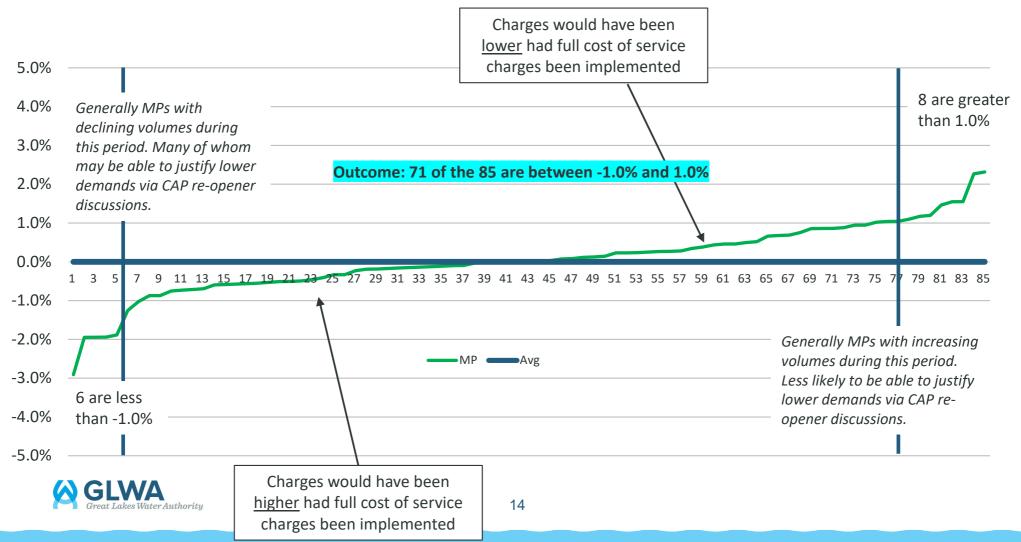
FY 2023 Strategy embraces stability and simplicity

 FY 2024 will reflect new demands resulting from the Contract Alignment Process ("CAP")



Stability Achieved: Illustration of Water "Mod / No Mod" Charge Approach for FY 2021 thru FY 2023

Chart indicates the <u>average annual</u> variance between actual charges adopted / proposed compared to the charges that would have been calculated via full cost of service studies. After removing 3 outliers, the range of variance for the remaining 85 Member Partners runs from a 2.5% reduction to a 2.5% increase



Sewer Charges Overview

Proposed 2.4% System Increase = 1.3% Budget Increase + 1.2% to address reinstatement of Highland Park Bad Debt Expense recovery

Proposed FY 2023 Sewer Charges represent a **uniform 3.2% increase** over existing charges for Suburban *Wholesale* Member Partners

- 1.3% to address FY 2023 Budget increase;
- 2.0% to fund Highland Park Bad Debt Expense
- -0.1% to address fixed contract adjustments

Proposed FY 2023 Sewer Charges to *Detroit* represent the **1.3% budget increase**

FY 2023 continue SHAREs developed for FY 2022

- Will remain in effect for FY 2024 Charges
- Scheduled to be adjusted for FY 2025 Charges



Highland Park Bad Debt Expense – Sewer From the GLWA / Detroit Service Agreement*

EXHIBIT B-V

Modified List of Relevant Ratemaking Terms

B. Revenue Requirements

3. <u>Bad Debt Expense</u>.

c. The Authority shall review the differences between the projected bad debt expense assigned to specific customer classes (noted below) in a rate year and the actual bad debt expense incurred for that rate year. Any negative variance between the projected bad debt expense and the actual bad debt expense incurred for that year shall be incorporated into the revenue requirement for the next-commencing rate year to insure that revenue shortfalls due to nonpayment of sewer charges are recovered.

d. For purposes of this clause, specific customer classes are defined as:

	Bad Debt Expense	Responsible Customer Class
1.	Detroit Retail Customers	Detroit Retail Customers
2.	Wholesale Contract Customers	Wholesale Contract Customers
3.	Surcharge Customers	Surcharge Customers
4.	Wayne County Hwy Drainage	Wayne County Hwy Drainage
5.	Michigan DOT Hwy Drainage	Michigan DOT Hwy Drainage
6.	Industrial Waste Control	Industrial Waste Control



^{*} Also in Model Wastewater Contract

One Pager Series - Operations & Maintenance Budget,

Proposed FY 2023 Service Charges

Charges and Bad Debt Expense



What is "Bad Debt Expense"?

December 15, 2021

One Pager Series Bad Debt Expense Draft - January 19, 2022 How is Bad Debt Expense Reported?



The GLWA "revenue requirement budget" is the basis for establishing the annual charges for services. Nearly 53% of the FY 2022 budget of \$843 million are legal commitments such as debt service (42%), lease payment (6%), Water Residential Assistance Program (WRAP) (0.5%) and legacy liabilities (4%). Capital funding reserve for replacement is 7.9% of the total budget. The Operations & Maintenance (0&M) expense represents \$332 million, or 39% of the total. This analysis focuses on O&M expense, as compared to the prior year, to provide insight into O&M expense increase of 2%, or \$6.7 million.

Staffing & Personnel The staffing plan (number of positions) is at 1,293 (increase of 54). Full-time Equivalents (FTE), which is the pro-rata hours that a position is budgeted is at 1,234,44 (increase of 18.19). Key changes are noted in this analysis.

Water Operations - increase of \$1.5 million Factors increasing the budget are mainly due to Personnel Costs (\$3.3 million) related to the staffing plan increase of 29 (24.25 FTEs), 25 positions are for the new Water Technician Apprenticeship Program, as well as increases in medical plan fringe benefits. Factors decreasing the budget include Contractual Services which decreased (\$1.7 million) due to the alum sludge removal, hauling, and disposal project for the Springwells, Northeast, and Southwest Water Treatment Plants.

Wastewater Operations - increase of \$2.8 million Factors increasing the budget are mainly due to Personnel Costs (\$1.8 million) which reflect an increase in base level wages for some classifications to recruit and retain personnel. Note that the staffing plan positions has increased by 2 but FTEs decreased by 9.56 due to the recruiting challenges. Increases

One Pager Series FY 2023 Budget Analysis Proposed as of December 17, 2021

have also been recognized in the medical plan increased (\$1.1 million) to cover area of risk such as chemical price increases.

Centralized Services¹ - increase \$1.6 million Factors increasing the budget include the addition of 11 positions (6.25 FTEs) (\$1.9 million) in Planning Services primarily to support the Capital Improvement Plan with the completion of AECOM's support in late FY 2023. Security is adding 3 security officers for (\$0.5 million) for expanded coverage. The Systems Operations Control support services contract increased (\$0.3 million); and Facility Operations increased (\$0.5 million) for a gate repair. Factors decreasing the budget are in the Planning Services Area in which project timelines adjusted for both the Linear System Integrity Program (LSIP) (\$1.2 million) and the Water Master Plan (\$0.4 million).

Administrative Services² - increase \$0.8 million Factors increasing are mainly due to Personnel Costs: Organizational Development is adding 5 positions (4 FTEs) to support onboarding and training (\$0.6 million); Procurement is adding 3 positions (1.5 FTEs) to manage increased workload (\$0.4 million); Financial Services, while decreasing 9 positions (9.75 FTE), has an overall increase to in costs due to the skill level for succession and in-sourcing as well as increases fringe benefits (\$0.6 million). Contractual Services increased (\$0.5 million) to support ERP implementation. Legal services contracts also increased (\$0.5 million). Factors decreasing are Unallocated Reserves (\$1.1 million) and Contractual services for the Board of Directors will be decreased (\$0.7 million) for a one-time project.

Questions? Contact the Office of the Chief Financial Officer at cfo@glwater.org

Includes the Board of Directors, Chief Executive Officer, Chief Administrative & Compliance Officer (Includes Risk Caser Authoristrative & composince officer forcidies his Management & Safety), General Counsel, Public Affairs, organizational Development and Financial Services

Sewer Service and submitted ew. The GLWA Public Hearing in sed schedule of ginning July 1,

ley Elements.

daily operations ch as the people, and parts to pipelines), the system, Water gram (WRAP) pension, and budget is also

Plan (CIP): ers evaluate the of the regional funded by a nd debt.

Quantifies each ls based on data, and other this includes the ich year. For the per partner is

OS): The inputs are applied to an ology to allocate .e., budget) by purification for isposal for the ocated to each the charge artner

on? Visit us

Proposed FY 2023 Water System Charges

Proposed FY 2023 Water & Sewer Service Charges

The average system charge adjustment for water is a 3.7 percent increase. This is the result of 1) a proposed Water budget increase of 3.5 percent; and 2) reduced baseline revenues related to decreased estimated sales volumes, which adds 0.2 percent to the needed charge increase. As a result of the 2018 Contract Alignment Process (CAP), the FY 2023 Units of Service changed for only 4 member partners. This has significantly improved charge stability among member partner communities. The proposed water charges reflect a uniform increase in wholesale revenue requirements of 3.6 percent, with a uniform average charge increase of 3.4 percent for the 84 member partners that did not have changes in contractual or estimated demands.

Approved FY 2023 Sewer System Charges

The average system charge adjustment for sewer is also a 3.7 percent increase. This is the result of 1) a proposed Sewer budget increase of 2.5 percent; and 2) reinstitution of a bad debt surcharge related to Highland Park which adds 1.2 percent to the charge increase. The recently updated Sewer Shares, which were collaboratively established through the Sewer Charges Workgroup, were included in the calculations for the FY 2022 charges. This update continues with the proposed FY 2023 charges resulting in a uniform impact of charge adjustments for all member partners.

Average System Charge Adjustments

Year	Jan ge Aaj	ustments
2018	Water	
2019	1.8%	Sewer
		-0.7%
2020	1.8%	0.1%
2021	0.6%	
	3.2%	0.8%
2022		2.0%
2023 proposed	1.5%	-0.6%
6.V	3.7%	
6-Year	2.1%	3.7%
Average	2.170	8.9%

GLWA is transparent in identifying and reporting accounts with late payments in public monthly reports and presentations. It is important for stakeholders to be informed of financial matters that impact the system – and potentially their costs in the future.

Is GLWA Required to Allocate Bad Debt Expense in Calculating Charges?

Yes, the 2011 Order to Incorporate Rate Settlements into Wastewater Contracts and Dismiss All Prior Rate Settlements, requires GLWA to allocate the bad debt expense in its sewer charges. A similar approach has been applied to water charges.

Water System Bad Debt Expense Allocation

The bad debt expense is recovered from all

Sewer System Bad Debt Expense Allocation

The 2011 Order requires bad debt expense recovery from "wholesale contract customers" be recovered from that same customer class.

Do Our Current Charges Include Bad Debt

Unfortunately, there is one community that receives water and sewer service for which we have been unable to collect. We know this is frustrating. You have our commitment to continue to resolve the matter.

What if the Delinquent Bad Debt is Paid by the Community that received the Service?

GLWA maintains records that would provide an allocation credit back to the communities that funded the bad debt expense. Depending on the timing and amount, we would work with Member Partners to determine the preferred method(s) to address the credit.

water and

billed for

typically

oses, each

corded for

esponding

accounts

pay their

munity is

, generally

quire that

se and a

doubtful

payment is

due, GLWA

bring the

payment.

ere there is

ay need to

the debt

quired to

the timely

ubtful, For

A, bad debt

ig expense

d like other

chemicals,

oses, GLWA

ecover the

re bad debt

the system.

eve worked

eguitable

f providing

not pay for

ost shifts to

re veare

nnel.

Please contact General Counsel Randal Brown via Randal.Brown@glwater.org.





Benchmarking

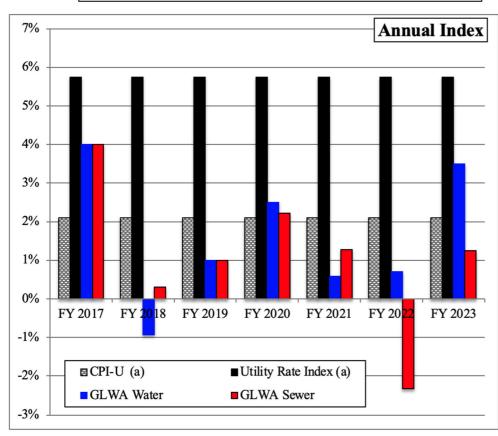


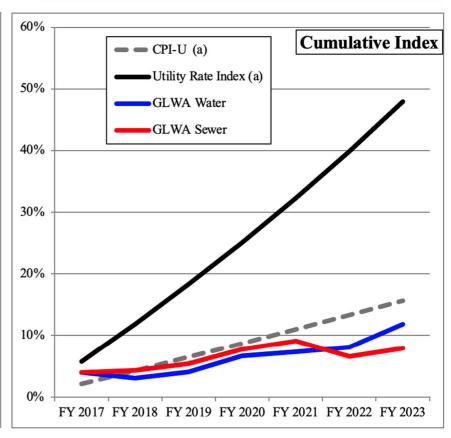
GLWA <u>BUDGET</u> Adjustments Compared to Utility Indices

Annual
CPI-U (a)
Utility Rate Index (a)
GLWA Water
GLWA Sewer

Annual Index								
FY 2017 FY 2018 FY 2019 FY 2020 FY 2021 FY 2022 FY 202								
2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%		
5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%		
4.0%	-0.9%	1.0%	2.5%	0.6%	0.7%	3.5%		
4.0%	0.3%	1.0%	2.2%	1.3%	-2.3%	1.3%		

Cumulative Index								
FY 2017	FY 2018 FY 2019 FY 2020 FY 2021 FY 2022 FY 20							
2.1%	4.2%	6.4%	8.7%	11.0%	13.3%	15.7%		
5.8%	11.8%	18.3%	25.1%	32.3%	39.9%	47.9%		
4.0%	3.0%	4.1%	6.7%	7.3%	8.0%	11.8%		
4.0%	4.3%	5.4%	7.7%	9.1%	6.5%	7.9%		





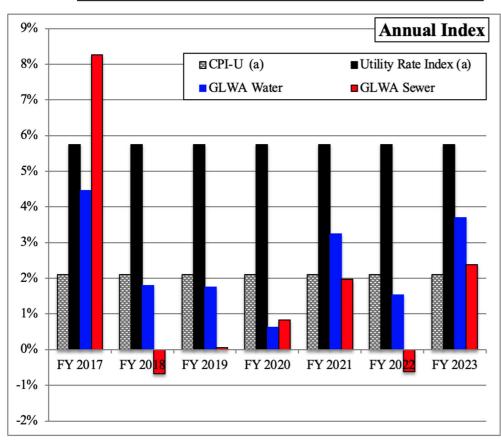


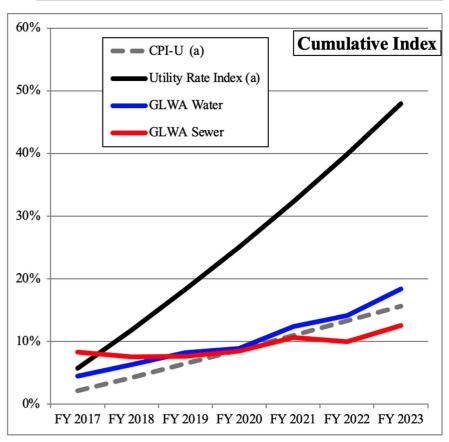
GLWA <u>CHARGE</u> Adjustments Compared to Utility Indices

Annual
CPI-U (a)
Utility Rate Index (a)
GLWA Water
GLWA Sewer

Annual Index								
FY 2017	<u>FY 2017 </u>							
2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%		
5.8%	5.8%	5.8%	5.8%	5.8%	5.8%	5.8%		
4.5%	1.8%	1.8%	0.6%	3.2%	1.5%	3.7%		
8.3%	-0.7%	0.1%	0.8%	2.0%	-0.6%	2.4%		

	Cumulative Index									
ſ	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023			
1	2.1%	4.2%	6.4%	8.7%	11.0%	13.3%	15.7%			
1	5.8%	11.8%	18.3%	25.1%	32.3%	39.9%	47.9%			
1	4.5%	6.3%	8.2%	8.9%	12.4%	14.1%	18.3%			
	8.3%	7.5%	7.6%	8.5%	10.6%	9.9%	12.6%			







Supplemental Schedules For Reference

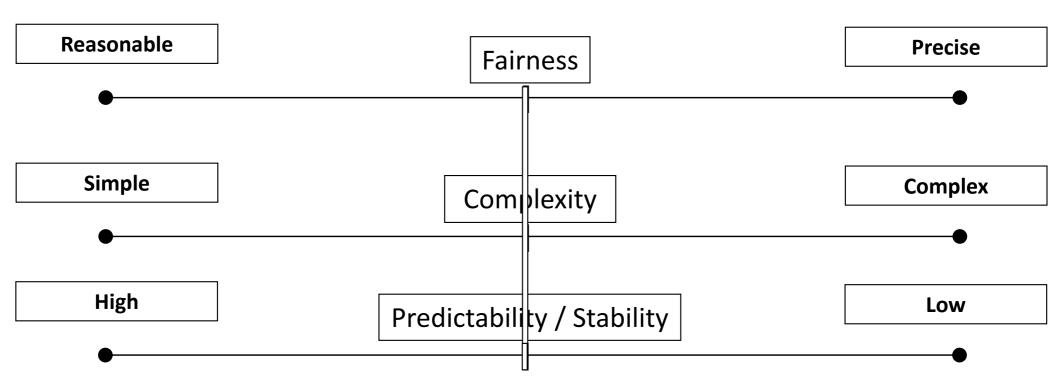


GLWA Charge Simplicity and Stability Strategies



Utility Charges Methodology: Cost of Service Continuum

Legacy Fundamental Principle: "Use best available, verifiable information to establish water and sewer charges"

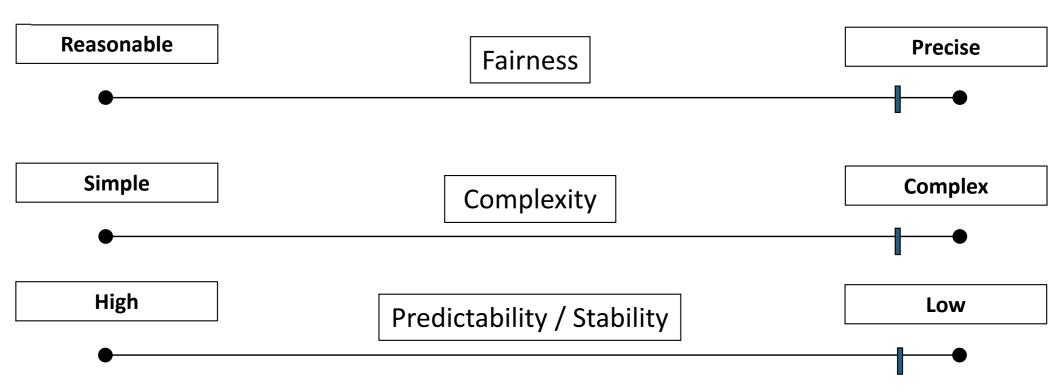


Prior to Sewer Rate Simplification, a pursuit of precision led to unintended consequences of high complexity and low predictability and stability.



Utility Charges Methodology: Cost of Service Continuum

Sewer Rate Simplification sought to *maintain* fair charges while *decreasing* complexity and *improving* predictability and stability





Lessons Learned from GLWA <u>Sewer</u> SHAREs

- ✓ While contributed volumes, and related levels of service, may vary amongst Member Partners year to year over the long term the relative level of service is fairly stable
- ✓ There is value in recognizing this stability that is fundamental in the current Sewer Charges Methodology:
 - ✓ Commitment to using 10 year historical average flow contributions to determine SHAREs
 - ✓ Hold SHAREs constant for 3 year periods



GLWA Water Charge Stability Strategies

- ✓ Model contract reopeners previously were "staggered"
 - ✓ Result was changes in individual Member Partner demands created charge volatility every year
- ✓ Contract Alignment Process (CAP) initiated for FY 2020 charges sought to minimize annual volatility
 - ✓ Universal contract demand review every 4 years
- ✓ Augmented by "Mod" / "No Mod" strategy
 - ✓ Only implement specific cost of service adjustments for Member Partners with "out of cycle" demand changes
 - ✓ Applied for FY 2021, FY 2022, and proposed FY 2023 Charges



Water Biennial BUDGET Highlights: Comprehensive Revenue Requirements

Schedule 1A - Water System Revenue Requirements Biennial Budget

	FY 2022	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2024	FY 2024
	Adopted	Amended	Department	Dollar	Percent	Department	Dollar	Percent
Water System Revenue Requirements	Budget	Budget	Requested	Variance	Variance	Requested	Variance	Variance
Revenues								
Revenues from Charges	\$342,808,200	\$340,408,200	\$354,947,900	\$ 12,139,700	3.5%	\$366,527,400	\$ 11,579,500	3.3%
Other Operating Revenue	175,000	175,000	175,000	-	0.0%	175,000	-	0.0%
Non-Operating Revenue	1,047,300	1,547,300	948,700	(98,600)	-9.4%	1,831,700	883,000	93.1%
Total Revenues	344,030,500	342,130,500	356,071,600	12,041,100	3.5%	368,534,100	12,462,500	3.5%
Revenue Requirements								
Operations & Maintenance (O&M) Expense	\$143,933,800	\$143,933,800	\$144,847,700	\$ 913,900	0.6%	\$148,707,300	\$ 3,859,600	2.7%
General Retirement System Legacy Pension	6,048,000	6,048,000	6,048,000	-	0.0%	-	(6,048,000)	-100.0%
Debt Service	135,481,000	135,121,000	150,337,100	14,856,100	11.0%	159,237,000	8,899,900	5.9%
General Retirement System Accelerated Pension	6,268,300	6,268,300	6,268,300	-	0.0%	3,647,500	(2,620,800)	-41.8%
Water Residential Assistance Program Contribution	1,705,500	1,705,500	1,770,500	65,000	3.8%	1,842,700	72,200	4.1%
Regional System Lease	22,500,000	22,500,000	22,500,000	-	0.0%	22,500,000	-	0.0%
Improvement & Extension Fund Transfer Pending	28,093,900	26,553,900	24,300,000	(3,793,900)	-13.5%	32,599,600	8,299,600	34.2%
Annual Water System Revenue Requirements	\$344,030,500	\$342,130,500	\$356,071,600	\$ 12,041,100	3.5%	\$368,534,100	\$ 12,462,500	3.5%
Change in Annual Revenue Requirement				12,041,100	3.5%		12,462,500	3.5%
Change Attributable to Non-Charge Revenue (FY 2023 reduction in investment earnings)				98,600	0.0%		(883,000)	-0.2%
Change Attributable to Sales Revenue (FY 2023 attibu	Change Attributable to Sales Revenue (FY 2023 attibutable to decreased projected Water Sales)				0.1%		-	0.0%
Charge Adjustment (Based on Revenue Requirement Increase of 3.5%)				12,651,800	3.7%		11,579,500	3.3%



<u>Sewer Biennial BUDGET Highlights:</u> Comprehensive Revenue Requirements

Schedule 1B - Sewer System Revenue Requirements Biennial Budget

	FY 2022	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2024	FY 2024
	Adopted	Amended	Department	Dollar	Percent	Department	Dollar	Percent
Sewer System Revenue Requirements	Budget	Budget	Requested	Variance	Variance	Requested	Variance	Variance
Revenues								
Revenues from Charges	\$474,005,900	\$471,005,900	\$479,816,500	\$ 5,810,600	1.2%	\$490,695,900	\$ 10,879,400	2.3%
Other Operating Revenue	400,000	400,000	400,000	-	0.0%	400,000	-	0.0%
Non-Operating Revenue	1,023,300	1,523,300	1,155,600	132,300	12.9%	2,310,500	1,154,900	99.9%
Total Revenues	475,429,200	472,929,200	481,372,100	5,942,900	1.3%	493,406,400	12,034,300	2.5%
Revenue Requirements								
Operations & Maintenance (O&M) Expense	\$181,299,800	\$181,299,800	\$184,052,600	\$ 2,752,800	1.5%	\$189,357,800	\$ 5,305,200	2.9%
General Retirement System Legacy Pension	10,824,000	10,824,000	10,824,000	-	0.0%	-	(10,824,000)	-100.0%
Debt Service	207,209,500	204,984,500	205,638,100	(1,571,400)	-0.8%	220,662,100	15,024,000	7.3%
General Retirement System Accelerated Pension	11,620,700	11,620,700	11,620,700	-	0.0%	6,930,300	(4,690,400)	-40.4%
Water Residential Assistance Program Contribution	2,358,300	2,358,300	2,394,200	35,900	1.5%	2,467,000	72,800	3.0%
Regional System Lease	27,500,000	27,500,000	27,500,000	-	0.0%	27,500,000	-	0.0%
Improvement & Extension Fund Transfer Pending	34,616,900	34,341,900	39,342,500	4,725,600	13.7%	46,489,200	7,146,700	18.2%
Annual Sewer System Revenue Requirements	\$475,429,200	\$472,929,200	\$481,372,100	\$ 5,942,900	1.3%	\$493,406,400	\$ 12,034,300	2.5%
Change in Annual Revenue Requirement				5,942,900	1.3%		12,034,300	2.5%
Change Attributable to Non-Charge Revenue (FY 2023 increase in investment earnings)				(132,300)	0.0%		(1,154,900)	-0.2%
Change Attributable to Sales Revenue (Reinstitution of Highland Park Bad Debt Adjustment)				5,420,500	1.2%		-	0.0%
Charge Adjustment (Based on Revenue Requirement Increase of 1.25%)				 11,231,100	2.4%		10,879,400	2.3%



Four Operating Categories

Schedule 2A - Operations & Maintenance Biennial Budget by Service Area

	FY 2022	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2024	FY 2024
	Adopted	Amended	Department	Dollar	Percent	Department	Dollar	Percent
Operating Area	Budget	Budget	Requested	Variance	Variance	Requested	Variance	Variance
A Water System Operations	\$ 74,813,000	\$ 74,813,000	\$ 76,518,200	\$ 1,705,200	2.3%	\$ 78,015,000	\$ 1,496,800	2.0%
B Sewer System Operations	111,971,400	111,971,400	113,197,500	1,226,100	1.1%	115,868,400	2,670,900	2.4%
C Centralized Services	103,845,900	103,845,900	104,502,900	657,000	0.6%	108,315,100	3,812,200	3.6%
D Administrative Services	34,603,300	34,603,300	34,681,700	78,400	0.2%	35,866,600	1,184,900	3.4%
Grand Total	\$325,233,600	\$325,233,600	\$328,900,300	\$ 3,666,700	1.1%	\$338,065,100	\$ 9,164,800	2.8%

Schedule 2B - Operations & Maintenance Expense by Fund with Centeralized & Administrative Services Allocated - Biennial Budget

	FY 2022	FY 2022	FY 2023		FY 2023	FY 2023	FY 2024	FY 2024	FY 2024
	Adopted	Amended	Department		Dollar	Percent	Department	Dollar	Percent
System	Budget	Budget	Requested	1	<i>V</i> ariance	Variance	Requested	Variance	Variance
Water	\$143,933,800	\$143,933,800	\$144,847,700	\$	913,900	0.6%	\$148,707,300	\$ 3,859,600	2.7%
Wastewater	181,299,800	181,299,800	184,052,600		2,752,800	1.5%	189,357,800	5,305,200	2.9%
Grand Total	\$325,233,600	\$325,233,600	\$328,900,300	\$	3,666,700	1.1%	\$338,065,100	\$ 9,164,800	2.8%



Operations & Maintenance Expenses by Type

Schedule 2C - Operations & Maintenance Expense by Expense Type (Water and Sewer Combined) - Biennial Budget

	FY 2022	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2024	FY 2024
	Adopted	Amended	Department	Dollar	Percent	Department	Dollar	Percent
Operations & Maintenance Expense	Budget	Budget	Requested	Variance	Variance	Requested	Variance	Variance
2.1 Salaries & Wages	\$ 71,970,000	\$ 71,001,100	\$ 75,760,200	\$ 3,790,200	5.3%	\$ 80,648,900	\$ 4,888,700	1.2%
2.2 Workforce Development	976,700	976,700	1,801,900	825,200	84.5%	1,874,600	72,700	0.0%
2.3 Overtime	6,954,500	6,897,500	6,891,200	(63,300)	-0.9%	6,838,900	(52,300)	0.2%
2.4 Employee Benefits	27,134,500	26,829,400	30,087,300	2,952,800	10.9%	32,505,800	2,418,500	3.0%
2.5 Transition Services	8,401,700	8,296,100	7,603,700	(798,000)	-9.5%	7,603,700	-	2.9%
Total Personnel Costs	115,437,400	114,000,800	122,144,300	6,706,900	5.8%	129,471,900	7,327,600	6.0%
3.1 Electric	39,633,300	39,633,300	39,966,000	332,700	0.8%	40,151,000	185,000	0.7%
3.2 Gas	5,565,600	5,565,600	5,791,300	225,700	4.1%	5,861,800	70,500	1.6%
3.3 Sewage Service	2,079,100	2,079,100	2,268,400	189,300	9.1%	2,295,100	26,700	1.2%
3.4 Water Service	3,120,000	3,120,000	2,981,700	(138,300)	-4.4%	3,036,800	55,100	1.9%
Total Utilities Costs	50,398,000	50,398,000	51,007,400	609,400	1.2%	51,344,700	337,300	0.7%
4.1 Chemicals	16,044,300	16,044,300	16,118,600	74,300	0.5%	16,211,400	92,800	1.0%
4.2 Supplies & Other	35,024,800	36,082,000	32,097,300	(2,927,500)	-8.4%	32,145,700	48,400	-2.5%
4.3 Contractual Services	103,375,700	104,834,700	104,579,200	1,203,500	1.2%	105,602,100	1,022,900	1.0%
5.1 Capital Program Allocation	(3,471,000)	(3,471,000)	(4,376,200)	(905,200)	26.1%	(5,419,400)	(1,043,200)	0.4%
5.2 Shared Services	(1,892,500)	(2,775,700)	(2,925,000)	(1,032,500)	54.6%	(2,977,100)	(52,100)	-47.9%
6.0 Capital Outlay	3,534,900	3,534,900	2,814,500	(720,400)	-20.4%	2,972,500	158,000	5.6%
7.0 Unallocated Reserve	6,782,000	6,585,600	7,440,200	658,200	9.7%	8,713,300	1,273,100	30.7%
Total Other Categories	159,398,200	160,834,800	155,748,600	(3,649,600)	-2.3%	157,248,500	1,499,900	1.0%
Grand Total	\$325,233,600	\$ 325,233,600	\$ 328,900,300	\$ 3,666,700	1.1%	\$ 338,065,100	\$ 9,164,800	2.8%



Water Five Year Plan Summary

Schedule 1C - Water System Revenue Requirements Five-Year Plan

	FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
	Adopted	Amended	Department	Department	Department	Department	Department
Water System Revenue Requirements	Budget	Budget	Requested	Requested	Requested	Requested	Requested
Revenues							
Revenues from Charges	\$342,808,200	\$340,408,200	\$354,947,900	\$366,527,400	\$377,369,800	\$388,663,000	\$402,515,800
Other Operating Revenue	175,000	175,000	175,000	175,000	175,000	175,000	175,000
Non-Operating Revenue	1,047,300	1,547,300	948,700	1,831,700	3,888,000	5,944,900	5,909,500
Total Revenues	344,030,500	342,130,500	356,071,600	368,534,100	381,432,800	394,782,900	408,600,300
Revenue Requirements							
Operations & Maintenance (O&M) Expense	\$143,933,800	\$143,933,800	\$144,847,700	\$148,707,300	\$154,338,200	\$155,636,900	\$159,155,500
General Retirement System Legacy Pension	6,048,000	6,048,000	6,048,000	-	-	-	-
Debt Service	135,481,000	135,121,000	150,337,100	159,237,000	170,589,900	180,955,100	185,569,700
General Retirement System Accelerated Pension	6,268,300	6,268,300	6,268,300	3,647,500	4,425,300	4,394,200	4,219,400
Water Residential Assistance Program Contribution	1,705,500	1,705,500	1,770,500	1,842,700	1,907,200	1,973,900	2,043,000
Regional System Lease	22,500,000	22,500,000	22,500,000	22,500,000	22,500,000	22,500,000	22,500,000
Improvement & Extension Fund Transfer Pending	28,093,900	26,553,900	24,300,000	32,599,600	27,672,200	29,322,800	35,112,700
Annual Water System Revenue Requirements	\$344,030,500	\$342,130,500	\$356,071,600	\$368,534,100	\$381,432,800	\$394,782,900	\$408,600,300
Forecasted Adjustment			3.5%	3.5%	3.5%	3.5%	3.5%



Sewer Five Year Plan Summary

Schedule 1D - Sewer System Revenue Requirements Five-Year Plan

	FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
	Adopted	Amended	Department	Department	Department	Department	Department
Sewer System Revenue Requirements	Budget	Budget	Requested	Requested	Requested	Requested	Requested
Revenues							
Revenues from Charges	\$474,005,900	\$471,005,900	\$479,816,500	\$490,695,900	\$500,699,900	\$510,976,500	\$523,900,300
Other Operating Revenue	400,000	400,000	400,000	400,000	400,000	400,000	400,000
Non-Operating Revenue	1,023,300	1,523,300	1,155,600	2,310,500	4,641,700	7,008,600	7,044,400
Total Revenues	475,429,200	472,929,200	481,372,100	493,406,400	505,741,600	518,385,100	531,344,700
Revenue Requirements							
Operations & Maintenance (O&M) Expense	\$181,299,800	\$181,299,800	\$184,052,600	\$189,357,800	\$190,544,200	\$195,988,900	\$199,719,800
General Retirement System Legacy Pension	10,824,000	10,824,000	10,824,000	-	-	-	-
Debt Service	207,209,500	204,984,500	205,638,100	220,662,100	212,893,500	215,396,100	222,535,700
General Retirement System Accelerated Pension	11,620,700	11,620,700	11,620,700	6,930,300	8,679,800	8,609,800	8,216,700
Water Residential Assistance Program Contribution	2,358,300	2,358,300	2,394,200	2,467,000	2,528,700	2,591,900	2,656,700
Regional System Lease	27,500,000	27,500,000	27,500,000	27,500,000	27,500,000	27,500,000	27,500,000
Improvement & Extension Fund Transfer Pending	34,616,900	34,341,900	39,342,500	46,489,200	63,595,400	68,298,400	70,715,800
Annual Sewer System Revenue Requirements	\$475,429,200	\$472,929,200	\$481,372,100	\$493,406,400	\$505,741,600	\$518,385,100	\$531,344,700
Forecasted Adjustment			1.3%	2.5%	2.5%	2.5%	2.5%



Water Biennial BUDGET Highlights: Capital Financing Plan

Schedule 5A - Water Capital Financing Plan

Water Construction Fund

		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Water Construction Fund	FY 2022	Department	Department	Department	Department	Department
Inflows & Outflows	Estimated	Requested	Requested	Requested	Requested	Requested
Water Construction Fund						
Bond Proceeds	\$175,750,000	\$ -	\$ -	\$256,500,000	\$ -	\$261,250,000
Bond Fund Earnings on Investments	67,500	128,800	365,900	1,199,400	1,309,400	1,088,600
Grant Revenues (SRF Loans)	36,527,000	54,992,000	59,446,000	21,442,000	2,400,000	22,505,000
Transfers from I&E Fund	106,836,800	28,735,400	18,221,400	17,914,700	20,159,900	26,149,600
Project Expenditures (a)	(143,368,000)	(155,501,000)	(180,349,000)	(177,293,000)	(139,745,000)	(119,631,000)
Increase (Decrease) in Construction Funds	\$175,813,300	\$ (71,644,800)	\$(102,315,700)	\$119,763,100	\$(115,875,700)	\$191,362,200
Beginning Year Net Position	12,438,000	188,251,300	116,606,500	14,290,800	134,053,900	18,178,200
Projected Ending Net Position	\$188,251,300	\$116,606,500	\$ 14,290,800	\$134,053,900	\$ 18,178,200	\$209,540,400
(a) Capital Improvement Plan	\$ 179,210,000	\$ 194,376,000	\$ 225,436,000	\$ 221,616,000	\$ 174,681,000	\$ 149,539,000
(a) Capital Spend Rate Adjustment	(35,842,000)	(38,875,000)	(45,087,000)	(44,323,000)	(34,936,000)	(29,908,000)
(a) Total CIP Expenditures	\$ 143,368,000	\$ 155,501,000	\$ 180,349,000	\$ 177,293,000	\$ 139,745,000	\$ 119,631,000

Water Improvement & Extension Fund

		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Water Improvement & Extension Fund	FY 2022	Department	Department	Department	Department	Department
Inflows & Outflows	Estimated	Requested	Requested	Requested	Requested	Requested
Water Improvement & Extension Fund						
Water System Revenue Transfers In	\$ 26,553,900	\$ 24,300,000	\$ 32,599,600	\$ 27,672,200	\$ 29,322,800	\$ 35,112,700
Receipt of DWSD Shortfall Loan Interest	-	-	-	-	-	-
Capital Outlay	(17,006,600)	(15,452,600)	(13,403,600)	(10,379,900)	(9,626,700)	(9,007,600)
Transfer to Construction Fund	(106,836,800)	(28,735,400)	(18,221,400)	(17,914,700)	(20,159,900)	(26,149,600)
Increase (Decrease) in I&E Reserves	\$ (97,289,500)	\$ (19,888,000)	\$ 974,600	\$ (622,400)	\$ (463,800)	\$ (44,500)
Beginning Year Net Position	207,475,000	110,185,500	90,297,500	91,272,100	90,649,700	90,185,900
Projected Ending Net Position	\$110,185,500	\$ 90,297,500	\$ 91,272,100	\$ 90,649,700	\$ 90,185,900	\$ 90,141,400



Sewer Biennial BUDGET Highlights: Capital Financing Plan

Schedule 5B - Sewer Capital Financing Plan

Sewer Construction Fund

		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Sewer Construction Fund	FY 2022	Department	Department	Department	Department	Department
Inflows & Outflows	Estimated	Requested	Requested	Requested	Requested	Requested
Sewer Construction Fund						
Bond Proceeds	\$137,750,000	\$ -	\$ -	\$123,500,000	\$ -	\$137,750,000
Bond Fund Earnings on Investments	96,000	86,200	277,600	617,100	479,400	497,300
Grant Revenues (SRF Loans)	14,149,000	18,720,000	10,247,000	9,785,000	15,357,000	7,198,000
Transfers from I&E Fund	47,953,800	26,444,900	32,173,500	55,839,200	59,326,700	59,848,000
Project Expenditures (a)	(79,538,000)	(94,449,000)	(121,735,000)	(138,392,000)	(118,267,000)	(98,480,000)
Increase (Decrease) in Construction Funds	\$120,410,800	\$ (49,197,900)	\$ (79,036,900)	\$ 51,349,300	\$ (43,103,900)	\$106,813,300
Beginning Year Net Position	11,473,000	131,883,800	82,685,900	3,649,000	54,998,300	11,894,400
Projected Ending Net Position	\$131,883,800	\$ 82,685,900	\$ 3,649,000	\$ 54,998,300	\$ 11,894,400	\$118,707,700
(a) Capital Improvement Plan	\$ 106,050,000	\$ 125,932,000	\$ 162,313,000	\$ 184,523,000	\$ 157,689,000	\$ 131,307,000
(a) Capital Spend Rate Adjustment	(26,512,000)	(31,483,000)	(40,578,000)	(46,131,000)	(39,422,000)	(32,827,000)
(a) Total CIP Expenditures	\$ 79,538,000	\$ 94,449,000	\$ 121,735,000	\$ 138,392,000	\$ 118,267,000	\$ 98,480,000

Sewer Improvement & Extension Fund

		FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Sewer Improvement & Extension Fund	FY 2022	Department	Department	Department	Department	Department
Inflows & Outflows	Estimated	Requested	Requested	Requested	Requested	Requested
Sewer Improvement & Extension Fund						
Sewer System Revenue Transfers In	\$ 34,341,900	\$ 39,342,500	\$ 46,489,200	\$ 63,595,400	\$ 68,298,400	\$ 70,715,800
Receipt of DWSD Shortfall Loan Interest	406,400	-	-	-	-	-
Capital Outlay	(15,965,100)	(18,447,100)	(11,610,500)	(8,106,700)	(8,671,900)	(10,256,600)
Transfer to Construction Fund	(47,953,800)	(26,444,900)	(32,173,500)	(55,839,200)	(59,326,700)	(59,848,000)
Increase (Decrease) in I&E Reserves	\$ (29,170,600)	\$ (5,549,500)	\$ 2,705,200	\$ (350,500)	\$ 299,800	\$ 611,200
Beginning Year Net Position	122,385,000	93,214,400	87,664,900	90,370,100	90,019,600	90,319,400
Projected Ending Net Position	\$ 93,214,400	\$ 87,664,900	\$ 90,370,100	\$ 90,019,600	\$ 90,319,400	\$ 90,930,600



