

Water, Sewer & Reclaimed Water Rate Study

Draft Report

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Prepared for:

Pinellas County Utilities

Prepared by:

Stantec Consulting Services Inc.



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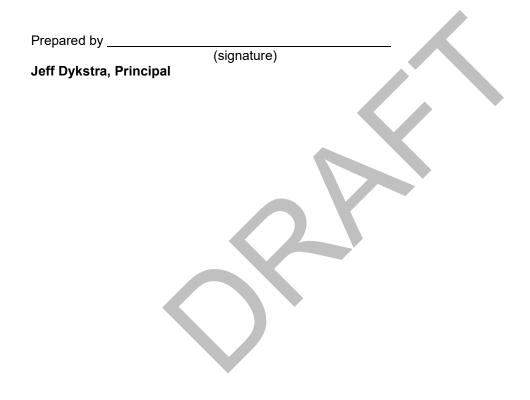




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1.0 EXECUTIVE SUMMARY

Stantec Consulting Services Inc. (Stantec) has conducted a Water, Sewer, and Reclaimed Water Rate Study (Rate Study or Study) for the water, sewer, and reclaimed water utility systems of the Pinellas County (County) Utilities Department (PCU or Utility). This report outlines the assumptions, detailed analysis, and results of the Rate Study, including final conclusions and recommendations.

1.1 BACKGROUND

Pinellas County owns and operates a potable water treatment, storage, and distribution system serving approximately 120,000 retail connections in unincorporated Pinellas County and providing wholesale service to the Cities of Clearwater, Pinellas Park, and Safety Harbor. The County receives its potable water supply from Tampa Bay Water (TBW).

The County owns and operates two advanced water reclamation facilities¹ with a total permitted capacity of 42 MGD and a collection system of gravity sewers, force main sewers, and pump stations to collect and deliver wastewater to the plant for treatment from approximately 72,000 retail service connections in unincorporated Pinellas County and provides wholesale service to the City of Pinellas Park, Town of Redington Shores, and Town of North Redington Beach. The County treats and disposes a portion of the treated effluent into its reclaimed water system to provide service to approximately 23,000 retail customers within the County and wholesale reclaimed water service to the Town of Belleair, City of Pinellas Park, City of South Pasadena, and City of St. Pete Beach.

The County has established individual enterprise funds for its water and sewer utility systems that separately account for the operating, capital, and other financial requirements of each respective utility system². To ensure that each utility system is generating sufficient revenue to satisfy its ongoing financial requirements, the Board of County Commissioners (BOCC) has historically adopted periodic water, sewer, and reclaimed water rate adjustments.

In 2019, Stantec, along with County staff, presented a four-year plan of annual water, sewer, and reclaimed water rate adjustments to the BOCC for their consideration. The BOCC approved the recommended four-year plan of annual retail water, wholesale water, retail sewer, wholesale sewer, and reclaimed water rate adjustments. By approving the four-year plan of rate adjustments, the BOCC established a multi-year rate setting approach to levelize and minimize annual rate adjustments, while also demonstrating proactive management of the utility systems. Furthermore, the BOCC recognized that periodic review and updates

² Annual reclaimed water requirements are accounted for within the sewer enterprise fund.



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William E. Dunn Water Reclamation Facility and South Cross Bayou Water Reclamation Facility.

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of the financial management plans and plan of annual rate adjustments would be needed to account for changes in demands, regulatory requirements, and operating and capital budgets.

Table 1-1 indicates the BOCC approved four-year water, sewer, and reclaimed water rate adjustment plans by fiscal year (FY) resulting from the previous rate study.

Table 1-1: Adopted Rate Revenue Adjustments by Fiscal Year

Customer Type	FY 2020	FY 2021	FY 2022	FY 2023					
Water System		•							
Retail	1.00%	1.00%	1.00%	1.00%					
Wholesale	1.00%	1.00%	1.00%	1.00%					
Sewer System									
Retail	9.50%	9.50%	9.50%	9.50%					
Wholesale	9.50%	9.50%	9.50%	9.50%					
Reclaimed Water System									
Retail/Wholesale ³	11.63%	6.25%	5.90%	5.58%					

One of the benefits of PCU's proactive rate and financial planning practice is the ability to identify and address challenges that will influence its sustainability and financial performance over both immediate and long-term horizons. Like the water resources industry, PCU faces challenges including inflated operating and capital costs, the need for large-scale capital reinvestment, compliance with water quality standards and other regulatory requirements, and customer affordability.

PCU has recently completed master plans for the water system and its wastewater treatment facilities, and is currently performing a wastewater collection system master plan which collectively outline a plan to address needed capital infrastructure investments including, 1) aging infrastructure that continues to drive the need for additional renewal and replacement, 2) improvements to support system resiliency from the impact of natural disasters, 3) system capacity, and 4) regulatory compliance.

PCU has recently experienced inflated costs related to materials and contractors, which impacts the cost of the capital improvement program (CIP) and large increases in chemical and electricity costs, which impact the cost to operate its water, sewer, and reclaimed water systems.

Purchased water expenses from TBW constitute over half of the water system's annual operating budget. PCU will need to manage and consider the implications of anticipated future cost increases for TBW, in addition to the expiration in FY 2029 of PCU's \$4.4M annual credit related to the acquisition of its assets

³ Represents combined (retail and wholesale) rate adjustments.



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by TBW. Planning consideration is also given to the implications of potential wholesale water demand and associated revenue reductions from the City of Clearwater as it continues to plan the expansion of its own water supply facilities.

1.2 OBJECTIVES

The principal objectives of the Rate Study were as follows:

Perform a Revenue Sufficiency Analysis – To evaluate the sufficiency of the water, sewer, and reclaimed water rates over a multi-year projection period and, to the extent necessary, develop a plan of annual water, sewer, and reclaimed water rate adjustments that will provide sufficient revenues to satisfy the updated financial requirements of each fund, including 1) operations and maintenance costs (including inter-fund transfers and minor capital outlay), 2) capital improvement program costs (including renewal and replacement requirements), 3) existing and any new debt service costs and corresponding net income to debt service coverage ratios, and 4) adequate reserves.

Perform a Cost-of-Service Analysis – To determine the proper allocation of required rate revenue adjustments, based upon the allocations of cost of service, between retail and wholesale customer classes, and an evaluation of the level of cost recovery provided by current retail and wholesale rates, and consideration of fixed and variable costs for each utility system.

Perform a Rate Design Analysis – Including 1) a review of the water, sewer, and reclaimed water structures for conformance to industry best practices, cost of service, and the County's policy and pricing objectives, 2) identification of any recommended adjustments to the retail and/or wholesale rates for water, sewer, and reclaimed water services, 3) development of recommended rates for a four-year period from FY 2024 through FY 2027, and 4) determine the resulting impacts to customers' bills.

Conduct Rate Surveys and Bill Comparisons – That compare 1) the monthly cost of water and sewer service to single-family residential customers of other neighboring communities at varying levels of consumption, and 2) the monthly cost of reclaimed water to single-family residential customers within various neighboring communities under metered and non-metered rate structures.

1.3 RESULTS

Based on the completion of the analyses described herein, Stantec has developed conclusions and recommendations for the County's water, sewer, and reclaimed water rates. The key findings and recommendations are outlined herein.

1.3.1 Revenue Sufficiency

This analysis evaluated the sufficiency of PCU's revenues to meet its current and projected financial requirements over a 10-year projection period and determined the level of any rate revenue increases necessary in each year of the projection period to provide sufficient revenues to fund all PCU's cost



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requirements. Stantec thoroughly discussed the base data and assumptions of the analysis with County staff and reviewed alternative rate adjustment options for PCU that reflected different capital funding sources. Through this process, Stantec identified several options of financial management plans and associated plans of annual rate adjustments for the BOCC to consider as summarized in Table 1-2.

Table 1-2: Financial Management Plan Options Presented to the BOCC

Scenarios	New Borrowing	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028 – FY 2032						
Water System	•											
A: Pay as You Go	\$0	6.5%	6.5%	6.5%	6.5%	6.5%						
B: Partial Debt	\$95M	5.0%	5.0%	5.0%	5.0%	5.0%						
C: Debt Capacity	\$201M	3.5%	3.5% 3.5%		3.5%	3.5%						
Sewer System												
A: Pay as You Go	\$0	6.0%	6.0%	6.0%	6.0%	4.0%						
B: Partial Debt	\$59M	4.0%	4.0%	4.0%	4.0%	4.0%						
C: Debt Capacity	\$179M	2.0%	2.0%	2.0%	2.0%	2.0%						

These options were presented to the BOCC in March 2023, and direction was given to PCU staff to proceed with the partial debt options (Option B) as presented for both systems.

As such, the recommended financial management plan and corresponding plan of water, sewer, and reclaimed water rate revenue adjustments are based upon the revenue and expense information, beginning balances, and assumptions as described in Section 2 of this report. Appendices A and B include detailed schedules presenting all components of the financial management plan for the water and sewer systems, respectively reflective of the BOCC direction (Option B).

Table 1-3 presents the recommended overall four-year rate revenue adjustment plan for FY 2024 through FY 2027. The Rate Study includes a ten-year forecast to ensure that these recommended rate increases, and future rate increases, would be sufficient to sustain the Utility beyond the four-year rate plan. As such, a ten-year projection of water, sewer, and reclaimed water rate increases are shown in Schedule 1 of Appendix A and Appendix B of this report. The overall revenue increases for FY 2024 through FY 2027 are achieved within recommended rate structure adjustments identified in Section 4 of this Report.



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Table 1-3: Recommended Plan of Water, Sewer, and Reclaimed Water Rate Increases

Service Type	FY 2024	FY 2025	FY 2026	FY 2027
Effective Date	Oct. 1, 2023	Oct. 1, 2024	Oct. 1, 2025	Oct. 1, 2026
Water	5.00%	5.00%	5.00%	5.00%
Sewer ⁴	4.00%	4.00%	4.00%	4.00%
Reclaimed Water ⁵	6.44%	6.39%	6.63%	6.84%

1.3.2 Cost of Service

Stantec performed a cost-of-service analysis that allocated PCU's costs of its water, sewer, and reclaimed water systems between wholesale and retail customers to determine the level of alignment between the revenues generated from each system and the costs that PCU incurs to provide each service. In addition, costs were allocated to the functional components that make up each system and then between retail and wholesale customer classes. The cost-of-service analysis determined the portion of the water, sewer, and reclaimed water systems' costs allocable to retail and wholesale customers. Figures 1 and 2 present a summary of FY 2023 costs compared to revenues for retail and wholesale customers of the Water and Sewer Funds, respectively.

⁵ Represents combined (retail and wholesale) rate revenue adjustments.



⁴ Represents adjustments onto the retail sewer rates, there are no rate adjustments for wholesale sewer during the four-year rate period. Water rate increases shown are applied to retail and wholesale rates.

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Figure 1: Water Retail & Wholesale Costs vs. Revenues⁶

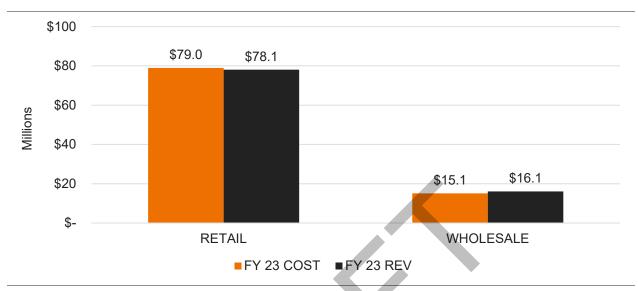
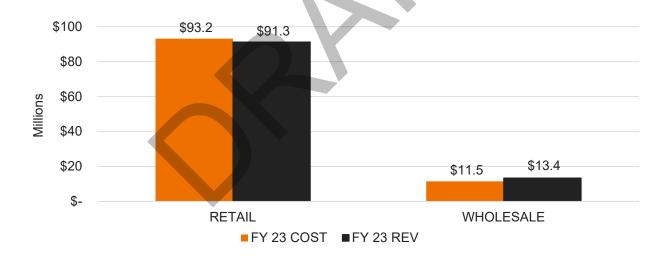


Figure 2: Sewer Retail & Wholesale Costs vs. Revenues



The costs and revenues for PCU's reclaimed water system are included within the Sewer Fund. Once the Sewer Fund cost of service was identified, Stantec then allocated the Sewer Fund costs and revenues between the sewer and reclaimed water systems. Figure 3 presents a summary of the resulting allocated reclaimed water system's costs and revenues by retail and wholesale customer classes.

⁶ Variance in total due to rounding to the nearest hundred thousand dollars.



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Figure 3: Reclaimed Water Retail & Wholesale Costs vs. Revenues

Cost of service studies reflect the analysis of conditions during a test year, selected to provide a normalized set of circumstances, regarding key factors including operating and capital costs. Because cost of service studies reflect the influences of changing technologies, operating costs, regulatory requirements, system investment, and customer behavior, the results tend to change over time and as such, should be conducted periodically. In consideration of PCU's planning process and rate adoption period, the cost allocation process provides direction in establishing the level of rate increases for retail and wholesale services over a multi-year period.

1.3.3 Rate Design

Stantec examined PCU's existing water, sewer, and reclaimed water rates and developed recommended rate structure modifications that 1) conform to accepted national and local industry practices, 2) enhance fiscal stability and increased recovery of fixed costs through base charges, 3) promote water conservation, 4) improve affordability to low volume and average users, and 5) minimize the administrative burden during implementation while enhancing the ability to be easily understood.

Customary practice within the water industry is a two-part rate structure comprised of both fixed and variable charges and recovery of a portion of the costs of the system in a fixed readiness-to-serve charge. This practice recognizes that utilities have substantial investments in capital related costs and other fixed costs that are incurred year-round to maintain a state of readiness to meet the demands of their customers when they occur.

1.3.3.1 Water System

The County presently has a fixed charge for water service regardless of whether there is any measured water use, which is a base charge per account for all retail customers, that is scaled by meter size according to the standard maximum safe operating flow rates in proportion to a five-eighths inch or three-quarter inch



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meter as published by the American Water Works Association (AWWA)⁷. Stantec recommends no structural modifications to the water base charge but does recommend adjustments to increase the level of cost recovery from base charges. Specifically, the proposed rates include increases to the current monthly base charge for a three-quarter inch meter of \$6.80 by \$1.25 each year to \$11.80 in FY 2027 and proportionate increases to the base charges for the other meter sizes. The percentage of retail revenues from base charges is estimated to increase from approximately 16.0% to approximately 22.0% by FY 2027 as a result.

PCU's volumetric rate structure for potable water is a uniform rate applied per 1,000 gallons of water use. Industry practice for communities throughout Florida, including those within and surrounding Pinellas County, is to utilize an inclining block structure whereby the volumetric rates increase as usage increases to promote water conservation and promote price incentives to reduce discretionary water use, notably outdoor irrigation. Stantec recommends that PCU implement a two-block inclining rate structure for residential and multi-family customers and maintain the uniform rate applicable to non-residential customers. Additional blocks and pricing may be considered in the future once advanced metering infrastructure (AMI) has been implemented and if PCU switches from bi-monthly to monthly billing. A comparison of the Utility's existing and recommended residential and multi-family two-block rate structure and associated rates for FY 2024 is presented in Table 1-4.

Table 1-4: Recommended Residential Inclining Block Structure

Block	Existing (FY 2023)	Recommended (FY 2024)
Block 1 (All Use)	\$5.13 per 1,000 gallons	
Block 1 (0 – 4,000 Gallons per Month) ⁸		\$3.83 per 1,000 gallons
Block 2 (All Use Above 4,000 Gallons per Month) ⁹		\$8.69 per 1,000 gallons

The revenue generated from these modifications to the retail rates and across-the-board increases to wholesale rates provides the 5.0% annual revenue adjustment identified in Table 1-2 for the water system.

⁹ Applied per unit for multi-family customers.



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⁷ Meter equivalent ratios based upon the standard maximum rate safe operating flow rates per Table 6-1 of the American Water Works Association (AWWA) Manual of Practice M22.

⁸ Applied per unit for multi-family customers.

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1.3.3.2 Sewer System

The fixed charge for sewer service is a base charge per account for residential customers and a per Equivalent Residential Unit (ERU) for commercial accounts, which is 5,000 gallons of measured water use per month.

For sewer volumes, a uniform rate is applied to metered water use, capped at 10,000 gallons per month for residential sewer customers. This structure is consistent with both national and local practices throughout Florida.

PCU's existing sewer rate structure meets the general objectives outlined previously. As such, Stantec recommends no structural modifications to the sewer rate structure, either base or volumetric components. As such, the recommended sewer rate revenue adjustments identified in Table 1-2 should be applied to both the base and volumetric charges for retail customers.

Table 1-5 provides the resulting monthly bill impacts during the four-year rate period, including the effects of the recommended rate structure modifications for a residential customer with water and sewer service using 5,000 gallons per month, which represents a "typical" use for a residential customer.

Table 1-5: Water and Sewer Residential Customer Monthly Bill

Description FY 23 (Existing)		FY 24 (Proposed)	FY 25 (Proposed)	FY 26 (Proposed)	FY 27 (Proposed)			
Water Bill	\$32.45	\$32.06	\$33.96	\$33.96 \$35.96				
Sewer Bill	\$55.49	\$57.73	\$60.05	\$62.45	\$64.93			
Total Bill	\$87.94	\$89.79	\$94.01	\$98.41	\$103.00			
\$ Change	\$4.80	\$1.85	\$4.22	\$4.40	\$4.59			
% Change	5.8%	2.1%	4.7%	4.7%	4.7%			

1.3.3.3 Reclaimed Water System

PCU's retail reclaimed water rate structure consists of charges for metered and unmetered customers. More than 90% of reclaimed water customers are currently unmetered ¹⁰ and pay a fixed rate regardless of the amount of reclaimed water used, while metered customers pay a volumetric rate per 1,000 gallons of reclaimed water used. Rate structure modifications implemented by PCU resulting from the previous rate study focused on removing the rate differentials between retail customers throughout the system. However,

¹⁰ PCU expects to meter all reclaimed customer by FY 2027.



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there is a \$7.00 per month availability charge ¹¹ paid by customers that are provided service through distribution infrastructure installed and paid for by PCU (i.e., County funded), whereas funded customers' localized distribution infrastructure was installed by another party such as a developer and do not pay the availability charge.

PCU has started metering its reclaimed water customers and expects to install all reclaimed meters by FY 2027, which will assist in managing its reclaimed water supply and revenues. To account for additional metered customers, improve the alignment of revenues and costs, establish a fixed and variable rate structure like water and sewer, and send a stronger conservation price signal for excessive use, Stantec recommends the following enhancements to PCU's reclaimed water rates:

- Add a base charge component to the metered rate structure, which includes an allowance for 20,000 gallons per month of reclaimed water use. For all use above that allowance, customers pay the volumetric rate per 1,000 gallons. Initially in FY 2024, the allowance will include 20,000 gallons of usage per month that will gradually be reduced to 15,000 gallons in FY 2027. This amount of reclaimed water use represents a reasonable allowance of irrigation needs for the typical single-family parcel, while the phased implementation will minimize the impact to customer's bills as they adjust their usage patterns in response to the modified rate structure.
- No changes to the monthly availability charge for customers in County funded areas are recommended during the four-year rate plan period.

Figure 4 presents a bill comparison of the existing rates and the proposed FY 2024 rates for reclaimed water users at various levels of monthly use, including County funded customers transitioning from unmetered to metered service¹². As shown, customers with monthly usage above the allowance of 20,000 will pay a volumetric rate per each additional 1,000 gallons of reclaimed water used and will see increases in costs, absent any reclaimed water use reductions.

¹² Includes the \$7.00 monthly availability charge.



¹¹ Expected to expire in FY 2029 after debt service for the localized and County funded distribution infrastructure is retired.

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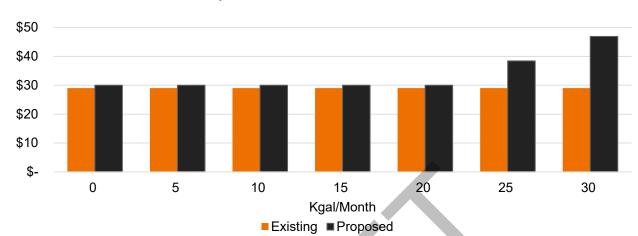


Figure 4: FY 2024 Reclaimed Water Bill Impacts Proposed Rates (County Funded Distribution Area)

Table 1-6 provides the monthly bill impacts over the four-year rate period for reclaimed water customers within the County funded portion of the system.

Table 1-6: Reclaimed Water Customer Monthly Bills (County Funded Distribution Area)¹³

Description	FY 23 (Existing)	FY 24 (Proposed)	FY 25 (Proposed)	FY 26 (Proposed)	FY 27 (Proposed)
Unmetered	\$29.00	\$30.00	\$31.00	\$32.00	\$33.00
\$ Change		\$1.00	\$1.00	\$1.00	\$1.00
% Change		3.4%	3.3%	3.2%	3.1%
Metered (15,000 gallons)	\$29.05	\$30.00	\$31.00	\$32.00	\$33.00
\$ Change		\$0.95	\$1.00	\$1.00	\$1.00
% Change		3.3%	3.3%	3.2%	3.1%

Complete schedules of recommended water, sewer, and reclaimed water rates for FY 2024 through FY 2027 and additional customer bill impacts for various meter sizes and services are included in Appendix F of this report.

¹³ Represents greater than 90% of reclaimed water customers and includes the \$7.00 per month availability charge.



Revenue Sufficiency Analysis

2.0 REVENUE SUFFICIENCY ANALYSIS

This section of the report presents the financial management plan and corresponding plan of water, sewer, and reclaimed water rate adjustments developed in the Revenue Sufficiency Analysis (RSA) that was conducted as part of the Study. To determine the level of annual rate revenue (and corresponding rate adjustments) necessary to satisfy the financial requirements of each respective utility system over a near-term planning period (FY 2023 – FY 2027) and long-term projection period (FY 2028 – FY 2032), Stantec conducted separate RSAs for each of the utility enterprise funds (i.e., the Water Fund and Sewer Fund)¹⁴. The following sub-sections herein present a description of the approach, source data, assumptions, and results of each RSA, while Appendices A and B include detailed supporting schedules for the financial management plan identified herein for the water and sewer systems, respectively.

2.1 APPROACH

During the Study, Stantec reviewed alternative multi-year financial management plans and corresponding rate revenue adjustment plans through interactive work sessions with County staff. During these work sessions, Stantec examined the impact of various inputs or assumptions upon key financial indicators by use of tabular and graphical output and extensive review of inputs, assumptions, and relationships between key variables. In this way, Stantec developed the recommended financial management plan and corresponding plan of annual water, sewer, and reclaimed water rate revenue adjustments presented in this report that will allow PCU to fund its' cost requirements throughout the planning period and meet its financial performance goals and objectives.

Stantec obtained the Utility's historical and budgeted financial information regarding the operation of its water, sewer, and reclaimed water systems, as well as historical customer counts and volume data by class of customer. Stantec was also provided the Utility's multi-year CIP and current debt service obligations and covenants, or promises made to lenders, relative to net income coverage requirements and reserves. Stantec discussed with PCU staff other assumptions and policies that would affect the financial performance of the Utility, such as trends in demands, planned developments/customer growth, debt coverage levels, levels of reserves, capital funding sources, earnings on invested funds, escalation rates for operating costs, and others.

This information was entered into two financial planning models (one for the Water Fund and another for the Sewer Fund) which produced a ten-year projection of the adequacy of revenues provided by the existing rates of the Utility to meet its current and projected financial requirements. Thereafter, the level of rate

¹⁴ The RSA begins with FY 2022 data; however, this information serves as base data upon which future year projections of revenue and expenses are based. As such, for the purposes of this analysis, FY 2022 is not considered part of the projection period.



Revenue Sufficiency Analysis

revenue increases necessary in each year of the projection period to satisfy the system's annual financial requirements was determined.

The financial planning model utilizes all projected available unrestricted funds in each year of the projection period to pay for capital expenditures. The model is set up to reflect the rules of cash-funded expenditures (Pay-As-You-Go or PAYGO), and it produces a detailed summary of the funding sources to be used for each project in the CIP. To the extent that current revenues and unrestricted reserves are not adequate to fund all capital projects in any year of the projection period, the model identifies a borrowing requirement to fund those projects, or portions thereof, that are determined to be eligible for borrowing. The financial plan is used to develop a borrowing program (if necessary) that includes the required borrowing amount by year and the estimated annual debt service requirements for each year in the projection period.

2.2 SOURCE DATA

The following sub-sections present the key source data relied upon in updating the RSA.

2.2.1 Beginning Fund Balances

County staff provided the historical financial information used to establish the beginning fund balances for each of the various funds, or sub-accounts, of each enterprise fund ¹⁵. The detailed FY 2021 ending fund balances (as of September 30, 2021) that serve as the FY 2022 beginning fund balances are presented on Schedule 3 of Appendices A and B of this report.

2.2.2 Revenues

Revenues consist of retail rate revenue, wholesale rate revenue, interest earnings revenue, water impact fee revenue, and other revenue from miscellaneous service charges. In FY 2022, retail, and wholesale rate revenues, as well as other non-rate revenues, are based on unaudited actuals. Beginning in FY 2023, Stantec projected retail and wholesale rate revenues based upon unaudited FY 2022 retail and wholesale rate revenues, adjusted annually by projected future changes in rates, demands, and customers ¹⁶. All other revenue types, excluding interest earnings and water impact fee revenue (which were calculated based upon the current impact fee and the number of new connections), were based upon projected FY 2023 revenues ¹⁷, adjusted annually each year thereafter per applicable growth and escalation assumptions. The

¹⁷ Reflects the Proposed FY 2023 Budget amounts executed at 95% per statutory requirements.



¹⁵ County staff provided trial balances as of September 30, 2021, for each of the various sub-accounts of the water and sewer enterprise funds, which were reconciled to the County's audited Annual Comprehensive Financial Report, as of September 30, 2021.

¹⁶ In FY 2028, the Water Fund RSA reflects negative adjustments of approximately \$5.2 million for the anticipated reduction in purchased water by the City of Clearwater.

Revenue Sufficiency Analysis

projected annual cash inflows are presented in line-item detail on Schedule 4 of Appendices A and B of this report.

2.2.3 Expenditures

The revenue requirements of each RSA consist of all operating and maintenance (O&M) costs, inter-fund transfers, debt service expenses, and capital improvement requirements. In FY 2022, all O&M expenditures were based upon FY 2022 unaudited actuals. In FY 2023, all O&M expenditures, excluding purchased water costs 18, were based upon the FY 2023 Budget provided by PCU staff on July 25, 2022 19. Beginning in FY 2024, O&M expenses were based upon the FY 2023 Budget, adjusted each year by the assumed cost escalation factors provided by PCU staff; whereas inter-fund transfers were calculated annually 20, existing debt service requirements were based upon the annual debt service amortization schedules for each outstanding borrowing, and the annual capital requirements were provided by and discussed with County staff. The projected annual cash outflows are presented in line-item detail on Schedule 5 of Appendices A and B of this Report.

2.2.4 Capital Improvement Program

One of the most important elements of a utility's financial plan is to ensure that there is continuous reinvestment in existing infrastructure to provide quality utility services and investment in new infrastructure to support new growth in the system. The annual capital requirements reflected in the RSA are presented in project-level detail on Schedule 6 of Appendices A and B of this report. It is important to note that the RSA for each system includes additional unspecified future capital project costs per discussions with County staff to reflect annual capital spending in the later part of the ten-year projection period. The amounts included in the RSA for each system were discussed at length with County staff and determined to be reasonable additions that will be modified and further delineated as appropriate in the future.

Table 2-1 summarizes the CIP for FY 2023 through FY 2027 by Fund in current day dollars.

²⁰ Renewal & Replacement Contribution in FY 2022 and FY 2023 based on FY 2022 Budget and FY 2023 Budget, respectively. Beginning in FY 2024 the contribution was calculated based upon available reserve balances and annual capital funding requirements.



¹⁸ Through FY 2028, annual purchased water costs were calculated based upon Tampa Bay Water's published projections of variable and fixed costs and Stantec's projections of annual member demands and assumed changes in the County's retail and wholesale demands.

¹⁹ Certain line items such as electricity and chemicals were adjusted based on discussions with PCU staff in December 2022 and January 2023 recognizing experienced contract cost increases and inflation.

Revenue Sufficiency Analysis

Table 2-1: Pinellas County Utilities Capital Improvement Plan²¹

Utility System	FY 23	FY 24	FY 25	FY 26	FY 27	5-Year CIP
Water	\$40.7M	\$47.1M	\$53.3M	\$29.1M	\$19.3M	\$189.5M
Sewer/Reclaimed Water	\$70.5M	\$82.6M	\$113.0M	\$80.3M	\$60.1M	\$406.5M

The CIP included in the Study is closely aligned with the needs identified in the water system and wastewater treatment facilities master plan presented to the BOCC in February 2023. PCU is also in the process of completing a wastewater collection system master plan that may identify capital needs in addition to those presented herein. Per discussions with Wade Trim, the consultant performing the wastewater collection system master plan, planning level annual capital needs may be in the range of \$20 million beginning towards the last half of the projection period. Stantec evaluated various scenarios including these costs, but per discussions with PCU staff, these costs were not included in the RSA. However, as these projects and associated costs are defined, these will be considered in future rate studies.

2.3 ASSUMPTIONS

The following presents the assumptions, policies, and parameters of each RSA:

2.3.1 Customer Growth & Demand Projections

The RSA for each system reflects modest organic retail customer growth projections of approximately 230 new water accounts and approximately 140 new sewer accounts per year based upon recent experienced growth and discussions with County staff. Based upon these levels of new connections, the annual growth rate in new retail water and sewer accounts is approximately 0.2% per year for both systems.

PCU is engaged in a system-wide AMI implementation that is expected to improve the accuracy of water meters, which is anticipated to increase billed water demand and associated billed sewer volumes. As such, the RSA's relied on the Utility's AMI cost benefit analysis, which estimated an increase in billed volume of 4.0% by full implementation in FY 2025 due enhanced meter accuracy. Aside from increases in retail water and sewer demands from AMI, each RSA reflects growth in billed volume that is equal in each year to the projected growth in new water and sewer connections/ERUs.

Each RSA also reflects conservative assumptions in wholesale water and sewer demand. Specifically, it is assumed that wholesale water demand will increase at a growth rate equal to the projected growth in new retail connections in each year of the projection period and wholesale sewer volume will increase at a growth rate equal in each year to the projected growth in new retail sewer connections. Beginning in FY

²¹ Schedule 4 in Appendices A (Water) and B (Sewer/Reclaimed Water).



Revenue Sufficiency Analysis

2028, the Water Fund RSA assumes the loss of 3.0 million gallons per day (MGD) of wholesale water demand from the City of Clearwater, as they complete the expansion of their own water supply facilities.

It is important to note that the timing and extent of actual wholesale demand reductions may change and should be reviewed and updated on an annual basis. Nevertheless, as presently projected, total billed water demand (retail and wholesale) is expected to increase by 2.0% during the five-year planning period (FY 2023 – FY 2027) and billed sewer demand (retail and wholesale) is expected to increase by 2.0% during the same period. The detailed annual projections of billed water and sewer demands are presented on Schedule 11 and Schedule 11, respectively, of Appendices A and B of this report.

2.3.2 Cost of Water Purchases from Tampa Bay Water (TBW)

Annual purchased water costs through FY 2028 were calculated based upon the County's projected billed water demands (reflecting an annual adjustment of 8.5% to account for line losses²²) and the projected Tampa Bay Water unitary rate per thousand gallons, less annual credits received by PCU. The annual projected TBW unitary rates were calculated based upon the multi-year expense forecasts within TBW 's FY 2023 published budget,²³ which does not include the potential impacts of additional water quality improvements or alternative water supply projects and projected TBW member demands (as developed by Stantec for each of the TBW member governments). Anticipated increases in water purchases resulting from AMI implementation were also considered. Beginning in FY 2029, annual purchased water costs were based upon projected FY 2028 expenditures, adjusted by applicable cost escalation assumptions, and reflect the expiration of the acquisition credit. The calculation of annual purchased water costs through FY 2028 is presented on Schedule 12 of Appendix A of this Report.

2.3.3 Advanced Meter Infrastructure Incremental O&M Expenses

Incremental net O&M costs related to the system-wide AMI implementation were provided as part of the Utility's net present value (NPV) and payback analysis. The Utility expects incremental costs for AMI meter readers and cellular fees for network and software to be partially offset by operational efficiencies and reductions in call center and maintenance related personnel costs resulting from the AMI implementation. These annual impacts were provided by the County for each year of the analysis. The Utility's estimated net annual change in operating expenses related to the AMI implementation resulting from the County's payback analysis are presented on Schedule 5 of Appendix A.

²³ Tampa Bay Water Proposed Operating Budget, Fiscal Year 2023, July 12, 2022.



²² Assumed line loss factor was based upon the average line losses for preceding fiscal years, FY 2020 – FY 2022. Water line losses are often related to leaks in pipe joints, undetected breaks, flushing for water quality, and draining for construction projects.

Revenue Sufficiency Analysis

2.3.4 Cost Escalation

Annual cost escalation factors were determined for each O&M line-item expense in consultation with County staff²⁴ and Stantec's experience working with other utility systems and are reflective of both historical experience and current expectations for future cost inflation. The specific cost escalation factors utilized in each RSA are presented on Schedule 2 of Appendices A and B of this report.

Due to recently observed inflation in overall construction and material costs impacting the Utility's capital improvement projects, and through discussions with City staff, the RSA includes adjustments to the FY 2023 cost of the Utility's water and sewer capital projects. Beginning in FY 2024 annual compounding cost escalation of 3.0% was applied to all future capital projects to reflect future cost of construction.

2.3.5 O&M Spending Execution

In FY 2022, each RSA reflects unaudited actual O&M expenditures, including personal services, TBW purchased water costs, and all other O&M.

Historically, the Utility has been able to realize savings by executing or spending less than its annual operations expense budget. Based upon a review of historical actuals to budgeted and discussions with PCU staff regarding future expectations, this RSA assumes execution factors of 95% for personnel expenditures and 100% for budgeted/projected O&M expenditures beginning in FY 2023 through the remainder of the projection period. Schedule 5 of Appendices A and B summarizes the projected annual O&M expenses for each RSA.

2.3.6 CIP Spending Execution

The RSA utilized the CIP provided by County staff for FY 2022 through FY 2031 with assumptions for additional annual capital spending beginning in FY 2029. Consistent with the PCU's historical annual spending and Stantec's experiences with other public utilities, it is likely that even though funds for these projects will be identified and appropriated in subsequent budget years, actual expenditures and project construction will be spread out over a longer time due to procurement and permitting delays, construction/contractor resource constraints, weather, and other factors. As such, Stantec and PCU staff evaluated the level of historical and anticipated annual capital spending relative to the projects included in the CIP and developed a plan of estimated annual capital spending and cash flows during the projection period.

The resulting levels of capital spending included in the water system RSA assumes that approximately \$60.0 million of identified projects from FY 2023 through FY 2025 will be carried forward and spent between FY 2027 and FY 2032, in the amount of \$10.0 million annually. In addition, recognizing the substantial level of near-term planned expenditures, the County estimates that it will be able to execute 50% of its identified

²⁴ County staff provided annual cost escalation factors that were consistent with those assumed in PCU's long-term strategic plan.



Revenue Sufficiency Analysis

annual CIP from FY 2023 increasing by 10% annually through FY 2026 and remaining at 80% through the remainder of the projection period.

The capital spending included in the RSA for the sewer system assumes that approximately \$130.0 million of identified projects from FY 2024 through FY 2027 will be carried forward and spent between FY 2028 and FY 2032. In addition, recognizing the substantial level of near-term planned expenditures, the City estimates that it will be able to execute 50% of its identified annual CIP from FY 2023 increasing to 80% through FY 2027, and increasing to 90% in FY 2028 through the remainder of the projection period.

In total, considering the cost escalation, the CIP, and estimated annual spending, total capital spending including inflation from FY 2022 – FY 2032 included in the RSA's is approximately \$402 million for the Water Fund and approximately \$596 million for the Sewer Fund. A detailed project listing is presented in Schedule 6 of Appendices A and B, respectively.

2.3.7 Borrowing Assumptions

Each RSA includes potential debt funding for the CIP. For new debt, the following parameters were assumed:

- Term: 30 Years
- Interest Rate: 5.5% for the Water Fund and 5.0% for the Sewer Fund²⁵
- Structure: Level annual debt service, assuming interest-only payment in year of issuance
- Costs of Issuance: 2.0% of Par
- Debt Service Reserve: Equal to one year of annual debt service expense for the Water Fund²⁶

2.3.8 Interest Earnings on Invested Funds

In FY 2022, actual interest earnings were reflected within each RSA. The projected annual interest earnings rate is 0.4% and 0.6% in FY 2023 for the water and sewer RSA, respectively, and 1.0% each year thereafter.²⁷

²⁷ Interest earnings assumption reflects the County's Water and Sewer Forecast document as provided by County staff on December 12, 2022.



²⁵ Interest rate assumption is based upon discussions with County staff and Stantec's understanding of current market conditions. The Sewer Fund has existing debt obligations while the Water Fund does not have outstanding debt.

²⁶ No debt service reserve is assumed for the Sewer Fund which has outstanding debt.

Revenue Sufficiency Analysis

2.3.9 Minimum Reserve Balances

Reserve balances for utility systems are funds set aside for a specific cash flow requirement, financial need, projects, or legal covenant. These balances are maintained to meet short-term cash flow requirements, and at the same time, minimize the risk associated with meeting the financial obligations and continued operational and capital needs under adverse financial conditions. The level of reserves maintained by a utility is a critical component and consideration of developing a utility system multi-year financial management plan. Many utilities, rating agencies, and the investment community place a significant emphasis on having sufficient reserves available for potentially adverse conditions. The rationale related to the maintenance of adequate reserves is twofold. First, it helps to assure a utility that it will have adequate funds available to meet its financial obligations during unusual periods (i.e., when revenues are unusually low and/or expenditures are unusually high). Second, it provides funds that can be used for emergency repairs or replacements to the system that can occur because of natural disasters or unanticipated system failures.

PCU's minimum reserve targets which are outlined during the County's annual budgeting process include an operating reserve and a Renewal and Replacement (R&R) reserve:

- 1) Operating Reserve: A minimum operating reserve equal to at least 2.5 months of annual O&M expenses for the Water Fund and the Sewer Fund.
- 2) R&R Reserve: 5.0% of prior year gross revenues in each year of the projection period.

During the Rate Study, Stantec evaluated PCU's reserve levels within both the Water Fund and the Sewer Fund for consistency with industry guidance published by the American Water Works Association (AWWA)²⁸, credit rating agencies (Fitch, Moody's, and S&P), and experience working with utility systems across the Country. As a result, Stantec developed separate reserve targets for purposes of this Study that reflect the following considerations for the Water Fund and Sewer Fund:

- Annual Renewal & Replacements Costs One year of depreciation expense to ensure that the Utility can continually reinvest in aging assets.
- Insurance Deductible Costs \$5 million per fund to cover property damage based upon a review
 of the Utility's property and flood insurance policy for its facilities.
- Revenue Loss 120 days of operating expenses and debt service in the event of a natural disaster such as a hurricane when customer receipts may be impacted.

²⁸ American Water Works Association (2018). Cash Reserve Policy Guidelines [White Paper].



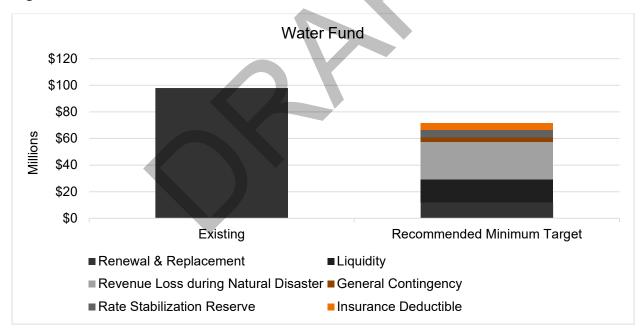
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Revenue Sufficiency Analysis

- General Contingency 4.0% of annual operating expenses, including costs related to Tampa Bay Water purchases for the Water Fund and 3.0% for the Sewer Fund to capture potential unplanned operating costs.
- Liquidity 75 days of operating expenses and debt service.
- Rate Stabilization Reserve Accounts for variations in volumetric rate revenue. Water is assumed at 7.0% of volumetric revenue based on the maximum annual change observed in historical demands. Sewer is assumed at 5.0% of volumetric revenue based on the maximum annual change observed in historical billed sewer flows.

These reserve targets represent approximately 300 days of O&M expenses for the Water Fund and approximately 400 days of O&M expenses for the Sewer Fund in FY 2023. It should be noted that Utility's actual fund balances may fluctuate based upon the level of annual CIP spending and needed appropriations. Figures 5 and 6 provide a comparison of the Utility's estimated fund balances compared to the developed reserve targets for the FY 2023 for the Water Fund and Sewer Fund, respectively.

Figure 5: FY 2023 Water Fund Recommended Reserves





Revenue Sufficiency Analysis

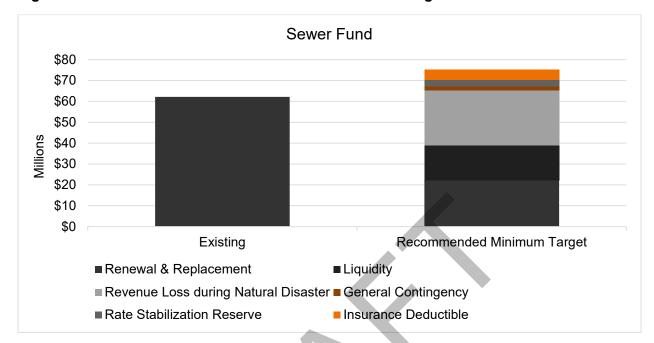


Figure 6: FY 2023 Sewer Fund Recommended Reserve Targets

2.3.10 Rate Covenant/Debt Service Coverage

The Sewer Fund must maintain net revenues (gross revenues minus O&M expenses) that are at least 1.15 times greater than the annual debt service requirement (i.e., the annual principal and interest payments) on its outstanding debt, or 1.25 times greater if sewer connection or impact fee revenues are included. This coverage requirement is a minimum requirement. To the extent that the Sewer Fund is unable to meet these requirements, it could be found in technical default and could have its credit rating downgraded, which would affect the interest rates and terms of future financing initiatives.

As a policy decision, utilities often measure revenue sufficiency and set rates based upon a higher coverage requirement to ensure compliance with these covenants in the event future projections of revenues and expenses do not occur as predicted. Additionally, as leverage ratios such as debt service coverage are critical components of any utility's credit rating and long-term financial sustainability, the financial management plan presented herein for the Sewer Fund achieves debt service coverage ratios of greater than 3.6 times net revenues throughout the projection period. This reflects ratios consistent with utility systems with AA and AAA ratings²⁹ throughout the projection period and is indicative of a financially healthy or strong system per the evaluation criteria published by each of the major municipal rating agencies.

The Water Fund does not currently have any outstanding debt obligations. However, to the extent any debt was to be issued in the future it is assumed that the Water Fund would be required to achieve a minimum debt service coverage ratio of 1.15 on net revenues, consistent with the minimum requirements of the

²⁹ Fitch Ratings, U.S. Water and Sewer: Peer Review 2022



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Revenue Sufficiency Analysis

Sewer Fund. The financial management plan presented herein for the Water Fund achieves debt service coverage ratios of greater than 5.8 times net revenues throughout the projection period.

2.4 REVENUE SUFFICIENCY RESULTS

To evaluate the sufficiency of existing rates, fees, and charges to fund PCU's revenue requirements over the planning period, a projection of revenue requirements and revenues at current rates was developed as described herein. Fundamentally, the objectives of each RSA were to determine if the current rates for FY 2023 are sufficient to fund the requirements of each utility system beginning in FY 2024, and to identify the level of projected future rate increase requirements that would be necessary for the remainder of a ten-year projection period extending through FY 2032. The supporting financial schedules for the Water Fund RSA are presented in Appendix A of this report, while the supporting financial schedules for the Sewer Fund RSA are presented in Appendix B of this report.

2.4.1 Financial Management Plan Options

Based upon the results of the RSAs completed for the Water Fund and the Sewer Fund, it was determined that the previously approved rate adjustments are sufficient to fund PCU's identified financial requirements in FY 2023. However, annual rate revenue adjustments were determined necessary to fund the projected financial requirements of the Water Fund and the Sewer Fund through FY 2032. Stantec presented three financial management plan options to the BOCC in March 2023 including alternate plans of rate adjustments that reflected different capital funding sources, including:

Option A: Pay as You Go

Option B: Partial Debt

Option C: Debt Capacity

The BOCC gave direction to PCU staff to proceed with the partial debt options (Option B) for both the Water Fund and the Sewer Fund. The resulting financial management plans and the proposed rates reflective of the BOCC's direction are described in the remainder of this report.

2.4.2 Water Fund

Annual rate revenue adjustments of 5.0% were determined necessary to fund the projected financial requirements of the Water Fund through FY 2032 for both retail and wholesale customers.



Revenue Sufficiency Analysis

Table 2-2: Recommended Water Rate Revenue Adjustments by Fiscal Year³⁰

Customer Type	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Retail	1.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Wholesale	1.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%

2.4.3 Sewer Fund

Based upon the results of the Sewer Fund RSA, it was determined that the previously approved rate adjustments are sufficient to fund the identified financial requirements in FY 2023. As shown in Table 2-3, annual retail rate revenue adjustments of 4.0% were determined necessary to fund the projected financial requirements of the Sewer Fund through FY 2032. As for wholesale sewer rates, no increases are projected through FY 2027, followed by annual increases of 4.0% through FY 2032 based on the results of the cost-of-service analysis described in Section 3 herein.

Table 2-3: Recommended Sewer Rate Revenue Adjustments by Fiscal Year³¹

Customer Type	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Retail	9.50%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Wholesale	9.50%	0.00%	0.00%	0.00%	0.00%	4.00%	4.00%	4.00%	4.00%	4.00%

Beginning in FY 2024, per the results of the Rate Design Analysis (described in Section 4 herein), Stantec recommends reclaimed water rate adjustments that over the four-year rate plan results in the overall rate adjustments shown in Table 2-4. Thereafter, it is assumed that PCU will continue with a plan of future adjustments that are at least equal to the sewer system increases beginning in FY 2028. This rate plan for reclaimed water service is expected to increase the portion of the cost of service that is recovered by the users of the system by approximately 10.0% when compared to FY 2023 costs.

³¹ FY 2023 sewer rates were adopted by the BOCC on May 21, 2019.



³⁰ FY 2023 water rates were adopted by the BOCC on May 21, 2019.

Revenue Sufficiency Analysis

Table 2-4: Recommended Reclaimed Water Rate Revenue Adjustments by Fiscal Year³²

System	FY									
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Reclaimed Water	5.58%	6.44%	6.39%	6.63%	6.84%	4.00%	4.00%	4.00%	4.00%	4.00%



³² FY 2023 reclaimed water rates were adopted by the BOCC on May 21, 2019, and reflected an estimated aggregate 5.58% combined (retail and wholesale) adjustment. FY 2024 through FY 2032 reflect aggregated retail and wholesale rate adjustments based on the specific recommended rates outlined in Appendix F.



Cost of Service

3.0 COST OF SERVICE

As part of the Study, Stantec performed a cost-of-service analysis to isolate the costs of the water, sewer, and reclaimed water systems and then determine the portion of those costs allocable to each respective system function. Stantec then identified the system functions and corresponding costs that would be utilized to determine the costs to provide both retail and wholesale service for each utility system. To determine the cost of service-based allocation between retail and wholesale customer or service classes, Stantec conducted separate Cost of Service Analyses (COSA) for PCU's water, sewer, and reclaimed water utility systems. The following sub-sections present the procedures and results of each COSA. Appendices C, D, and E of this report present the supporting schedules for the water system COSA, sewer system COSA, and reclaimed water system COSA respectively.

3.1 WATER AND SEWER

3.1.1 Retail and Wholesale

To initialize each COSA, the FY 2023 Budget requirements, net of projected off-setting revenues, were identified, and allocated by function to the water and sewer utility systems. The water system requirements were allocated between supply and distribution functions, while the sewer system requirements were allocated between treatment and disposal (T&D) and collection and transmission (C&T) functions. Upon allocating the net requirements of each system by function, the projected FY 2023 flows by customer class (i.e., retail and wholesale customers) were used to allocate the net requirements between customer classes. The components of budgeted requirements allocable by function include 1) debt service costs, 2) operating and maintenance (O&M) expenses, 3) general and administrative (G&A) expenses, 4) renewal, replacement, and improvement (R&R) project expenses, and 5) capital equipment expenses, less 6) off-setting revenues (i.e., all non-rate revenues).

Debt service costs were allocated by function based upon the direct benefit received from the proceeds of each issuance. Cost centers identified as O&M costs were allocated by function based upon the direct benefit received by those cost centers based upon our industry experience and discussions with County staff. Cost centers identified as G&A costs were allocated by function based upon an average 3-year allocation of O&M expenses. Capital costs identified as R&R project expenses were allocated by function based upon the direct benefit received by those costs. Minor capital outlay costs identified as capital equipment expenses included administrative and business support cost centers are allocated by function consistent with G&A costs, and water and sewer cost centers are allocated by function based upon the 3-year average of total system costs, and all other off-setting revenues are allocated by function based upon the nature of system costs recovered by each respective revenue-type.

Upon determining the total budgeted requirements of each utility system by function, a portion of the distribution (water system) and collection (sewer system) requirements were allocated to the wholesale



Cost of Service

customer class based upon a reasonable approximation of the minimum below-ground assets (represented by an inch-feet analysis of pipe) that would be required to serve the wholesale customer class (37.6% for the water system and 20.7% for the sewer system). The resulting distribution and collection costs allocable to wholesale customers, plus the costs already allocated to the supply (water system) and treatment and disposal functions (sewer system), were then allocated to the wholesale customer classes based upon the ratio of projected FY 2023 wholesale flows to projected FY 2023 total flows for the water and sewer systems. The remaining requirements were then allocated to the retail customer class.

3.1.2 Fixed and Variable

Once the total retail costs of service were identified, each cost center and budget requirement were assigned as either fixed or variable. Cost requirements were allocated directly as fixed if the water or sewer system would incur the cost even though the volume of water or sewer flows may fluctuate. Budget requirements were allocated as variable if the cost would fluctuate as water or sewer flows either increased or decreased. Some costs were allocated between fixed and variable if the nature of the department or cost center had both fixed and variable components, such as laboratories for water quality sampling or pump station costs.

3.2 RECLAIMED WATER

The cost of providing reclaimed water service is comprised of three cost components: O&M expenses, new capital requirements (as identified within the capital improvement program), and historical capital investment (net of contributed or grant-funded³³ capital).

The O&M expenses associated with the provision of reclaimed water service were based upon a detailed allocation of the Sewer Fund FY 2023 Budget requirements. With the assistance of County staff, each Sewer Fund cost center was allocated by service (i.e., between sewer and reclaimed water) based upon specific criteria, such as rate revenue, estimated flows, customer count, historical and projected capital spending, estimates, or on an indirect basis (reflecting the overall allocation of all O&M expenses by service). The allocation of the Sewer Fund FY 2023 Budget requirements is presented by cost center on Schedule 1 of Appendix E of this report, while the criteria legend utilized in determining the allocation of each cost center is presented on Schedule 2 of Appendix E.

The new capital requirements associated with the provision of reclaimed water service were based upon a detailed allocation of the Sewer Fund capital improvement program. With the assistance of County staff, each capital project was allocated by service, while the R&R was allocated based upon the overall allocation of all Sewer Fund FY 2023 Budget O&M expenses between the sewer and reclaimed water systems. The allocation of the new capital requirements of the Sewer Fund is presented in project-level detail on Schedule 3 of Appendix E of this report.

³³ Represents reimbursements from Southwest Florida Water Management District, Indian Rocks Beach, Bay Pines, and estimated contributed capital.



Cost of Service

The historical capital investment requirements associated with the provision of reclaimed water service were based upon the estimated annual amortization of historical capital investment in the reclaimed water system, net of contributed or grant funded capital, through FY 2021³⁴. Per past input from County staff and previous rate studies, it was assumed that 80% of net historical capital investment was funded with bonds and the remaining 20% with cash. The imputed debt service requirement for the bond funded portion of net historical investment was based upon an assumed 3.0% annual cost of borrowing and 30-year term, whereas the annual depreciation for the cash funded portion was based upon an assumed 50-year useful life. The calculation of annual historical capital investment requirement is presented on Schedule 4 of Appendix E of this report.

The identified costs of providing reclaimed water service were then allocated, by cost component³⁵, to the reclaimed water system's various functions³⁶ and then to the retail³⁷ and wholesale³⁸ customer classes based upon the units of service that each customer represents. Costs designated as treatment, transmission, and customer were allocable to both retail and wholesale customer class and allocated in proportion to their FY 2022 reclaimed water flows and number of bills, respectively, while distribution and high-service pumping & storage costs were allocated to the retail customer class only. The allocation of reclaimed water costs, by cost center and component, to functional components and to the retail and wholesale customer classes is presented on Schedule 5 of Appendix E of this report.

3.3 RESULTS

For each utility system, the resulting FY 2023 net cost requirements by customer class were then compared to projected FY 2023 rate revenue by customer class to determine if the current retail and wholesale rate structures are recovering the appropriate share of revenue as defined by each COSA. The results of each COSA are as follows:

³⁸ Includes the four municipalities provided wholesale reclaimed water service, including Belleair, Pinellas Park, South Pasadena, and St. Pete Beach.



³⁴ Historical capital investment in the reclaimed water system, as well as the portion funded from grants, was provided by County staff.

³⁵ The allocation of the O&M cost component to the retail and wholesale customer classes occurred at the cost center level.

³⁶ Includes customer related costs, treatment & production, transmission, distribution, and high-service pumping & storage.

³⁷ Includes users not defined as wholesale customers, including all retail customers and those customers that may be charged via the terms of special service agreements (i.e., golf courses).

Cost of Service

3.3.1 Water

Per the allocation process described, the resulting results of the water cost of service analysis are summarized in Table 3-1.

Table 3-1: Test Year Water Cost of Service³⁹

Water System	Retail	Wholesale	Total
Cost	\$79.0M	\$15.1M	\$94.1M
% of Costs	83.9%	16.1%	100.0%
Revenue	\$78.1M	\$16.1M	\$94.1M
% of Revenue	82.9%	17.1%	100.0%

The results of the COSA and revenue distribution provided by the current rates is well within acceptable tolerances recognizing the changes in cost allocations that can occur from year to year. Cost of service analyses reflect a specific point in time of "normalized" conditions which are subject to changes in costs and customer demands over time. As such, and in conjunction with PCU's rate design objectives, it is recommended that that the County adjust both its retail and wholesale water rates as described herein. In addition, future consideration should be given for potential reductions in future Clearwater wholesale demands as such reductions may impact the allocation of costs by customer class reliant upon the allocation of metered demands.

Based upon the allocation of the water system's retail costs between fixed and variable, approximately \$66.4 million, or 84.0%, are fixed costs. In comparison, only \$12.6 million, or 16.0% of retail revenue is recovered from fixed charges. Based upon Stantec's industry experience and rating agency guidelines, many systems will target a larger fixed revenue recovery percentage, which is one of the objectives identified in the recommended rate structure modifications outlined in Section 4 herein.

The supporting schedules for the water system COSA are presented in Appendix C of this report.

3.3.2 **Sewer**

Per the allocation process described, the resulting results of the sewer cost of service analysis are summarized in Table 3-2.

³⁹ Totals may not add due to rounding.



Cost of Service

Table 3-2: Test Year Sewer Cost of Service

Sewer System	Retail	Wholesale	Total
Cost	\$93.2M	\$11.5M	\$104.7M
% of Costs	89.0%	11.0%	100.0%
Revenue	\$91.3M	\$13.4M	\$104.7M
% of Revenue	87.2%	12.8%	100.0%

The results of the COSA demonstrate a strong correlation between costs and revenues for each customer class with wholesale customers slightly over-recovering their costs. However, in conjunction with PCU's rate design objectives considering these results, it is recommended that that the County adjust only its retail sewer rates and maintain the existing wholesale sewer rates during the four-year rate planning period through FY 2027 as described herein.

Based upon the allocation of the sewer system's retail costs between fixed and variable, approximately \$65.6 million, or 70.4%, are fixed. In comparison, \$27.6 million, or 29.6% of retail revenue is recovered from fixed charges. This resulting level of cost recovery from fixed charges is consistent with Stantec's industry experience and rating agency guidelines for reasonable targets of revenue to be recovered from fixed charges.

The supporting schedules for the sewer system COSA are presented in Appendix D of this report.

3.3.3 Reclaimed Water

Per the allocation process described for the sewer system COSA, approximately \$21.6 million of FY 2023 net sewer system cost requirements were allocated to the reclaimed water system. The FY 2023 allocated reclaimed water cost requirements by customer class were then compared to projected FY 2023 rate revenue by customer class to determine if the current retail and wholesale rates are recovering the appropriate share of revenue as defined by the reclaimed water cost of service-based allocation as summarized in Table 3-3.



Cost of Service

Table 3-3: Test Year Reclaimed Water Cost of Service⁴⁰

Reclaimed Water System	Retail	Wholesale	Total
Cost	\$16.5M	\$5.0M	\$21.6M
% of Costs	76.6%	23.4%	
Revenue	\$6.7M	\$1.0M	\$7.7M
% of Revenue	87.0%	13.0%	

In total, projected FY 2023 reclaimed water rate revenues recover 35.9% of the total identified cost of providing reclaimed water service. The revenue generated by reclaimed water rates, especially those set by special service agreements with wholesale and large retail customers, is significantly less than the cost of providing reclaimed water service. Therefore, it is recommended that the County take any opportunity available to review its special service agreements and when possible, adjust the reclaimed water rates charged to its wholesale and large retail customers, at a minimum by the increase in retail reclaimed water rates, so that the level of cost recovery from these users is more consistent with that of the PCU's traditional retail customers, while keeping in mind any market price limitations. Furthermore, to enhance the level of cost recovery from the reclaimed water rates charged to retail customers, Stantec recommends that the County adjust both its retail and wholesale rates during the four-year rate.

The supporting schedules for the reclaimed water system COSA are presented in Appendix E of this report.

⁴⁰ Totals may not add due to rounding.



Rate Design

4.0 RATE DESIGN

The purpose of the financial plan was to identify required rate adjustments to meet the revenue requirements of the water and sewer systems. The purpose of the COSA was to identify the recovery of costs between systems, between retail and wholesale customer classes, and between fixed and variable components. The next component of the Study was to evaluate the Utility's existing retail rates and rate structure and to provide recommended rates for the four-year period FY 2024 through FY 2027. The following sub-sections present a description of the basis of the recommended rate structures, supporting FY 2024 rate schedules, and customer impacts of the FY 2024 rate recommendations. The recommended rate structures presented herein is intended for implementation on October 1, 2023 (FY 2024), for services provided during the preceding month. Complete rate schedules for both retail and wholesale customers to be effective on October 1 of each fiscal year for FY 2024 through FY 2027 are provided in Appendix F.

4.1 RATE STRUCTURE REVIEW

Stantec reviewed the County's existing water, sewer, and reclaimed water retail rate structures in the context of several aspects, including:

- More equitable recovery of PCU's cost of service between fixed and variable costs
- Conformance to accepted national and local industry practices
- Assurance of fiscal stability and increased recovery of fixed costs through base charges
- Promote resource conservation and consideration of the impact of current and future water quality and environmental regulations
- Improve affordability to low and average volume users
- Minimize the administrative burden during implementation while enabling changes to be easily understood by customers

4.1.1 Water Rates

Customary practice is a two-part rate structure comprised of both fixed and variable charges. Generally accepted practice in the water industry includes recovery of a portion of the costs of the system in a fixed readiness-to-serve charge. This practice recognizes that utilities have substantial investments in capital related costs and other fixed costs that are incurred year-round to maintain a state of readiness to meet demands of their customers when they occur.



4.1.1.1 Base Charges

PCU presently has a fixed charge for water service regardless of whether there is any measured water use, which is a base charge per account for all retail customers that is scaled by meter size according to the standard maximum safe operating flow rates in proportion to a five-eighths inch or three-quarter inch meter as published by the AWWA and summarized in Table 4-1. A review of local utility water base charges indicates varying meter equivalency ratios while many systems utilize the same meter equivalency ratios as PCU does.

Table 4-1: Meter Equivalency Ratios⁴¹

Meter Size	Meter Equivalency Ratio
5/8" or ³ / ₄ "	1
1"	2.5
1 ½"	5
2"	8
3"	16
4"	25
6"	50
8"	80

A review of water base charges for a five-eighths inch or three-quarter inch meter equivalent of local water utilities is provided in Figure 7 and demonstrates that PCU's existing base charges are much lower than the regional average and reflective of the relatively low level of cost recovery from fixed charges summarized in Section 3 of this report.

⁴¹ Meter equivalent ratios based upon the standard maximum rate safe operating flow rates per Table 6-1 of the AWWA Manual of Practice M22.



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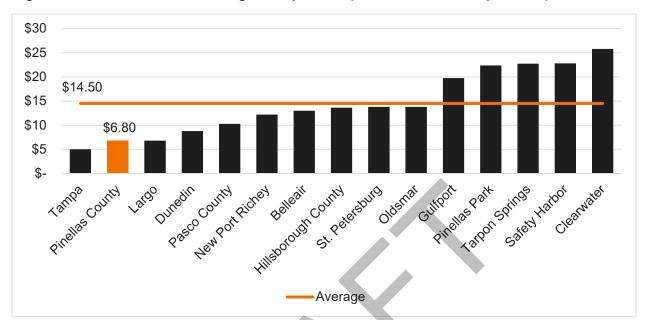


Figure 7: Local Water Base Charge Comparison (5/8" or 3/4" Meter Equivalent)42

4.1.1.2 Volumetric Rates

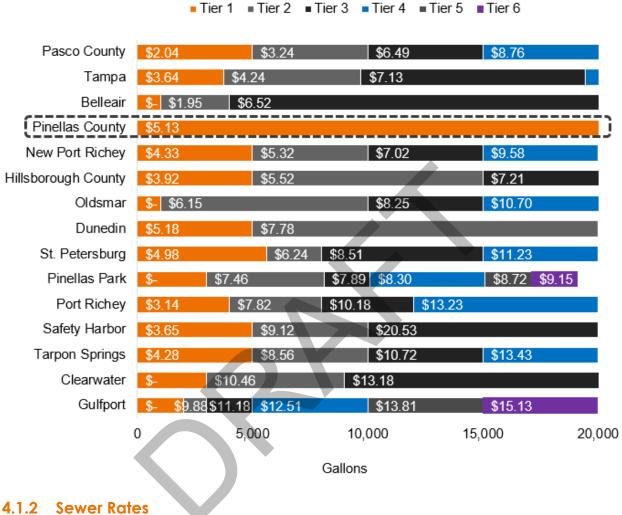
PCU's volumetric rate structure for potable water is a uniform rate applied per 1,000 gallons of water use. Industry practice for communities in and surrounding Pinellas County and throughout Florida, is to utilize an inclining block structure whereby the volumetric rates increase as usage increases to promote water conservation and promote price incentives to reduce discretionary water use, notably outdoor irrigation. Figure 8 summarizes the water volumetric rate structure for residential customers including tiers and pricing for local agencies. As can be seen, PCU is the only agency that does not have an inclining block rate structure for residential customers.

⁴² Rates as of January 2023.



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Figure 8: Local Water Tier Size and Rate Comparison⁴³



4.1.2.1 Base Charges

PCU presently has a fixed charge for sewer service regardless of whether there is any measured water use, which is applied per account for residential customers or per Equivalent Residential Unit (ERU) for commercial accounts, which is determined as 5,000 gallons of measured water use per month. A local comparison of sewer base charges for one ERU is provided in Figure 9 and demonstrates that PCU's existing sewer base charge is comparable to other local sewer systems.

⁴³ Reflects tiers for a residential customer with a 5/8" meter with rates as of January 2023.



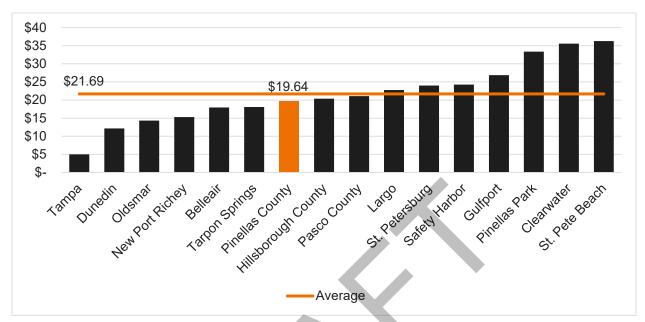


Figure 9: Local Sewer Base Charge Comparison (One ERU)⁴⁴

4.1.2.2 Volumetric Rates

PCU currently applies a uniform volumetric rate to all retail sewer customers based upon metered water use, capped at 10,000 gallons per month for residential sewer customers, recognizing that water use above that threshold is typically related to outdoor usage that never enters the sewer collection system. This structure is consistent with the industry and communities throughout Florida.

4.1.3 Reclaimed Water Rates

PCU currently provides retail reclaimed water to approximately 14,500 of its customers, the vast majority of which are residential and unmetered. The Utility's existing reclaimed water rate structure for unmetered residential customers is a flat rate per month regardless of the amount of reclaimed water used. Metered customers pay a volumetric rate per thousand gallons of reclaimed water use. A summary of PCU's rate structure which applies to different retail reclaimed water customers includes:

- Flat rate user fee: fixed rate for un-metered customers
- Volumetric rate: uniform volumetric rate per 1,000 gallons for customers with metered service

⁴⁴ Rates as of January 2023.



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Rate Design

- Billing charge: flat charge that varies for customers without water or sewer service in recognition
 that PCU incurs an additional cost to provide billing and customer service to these customers not
 already included in the cost of water and sewer service
- Availability charge: fixed rate applied only to customers with unfunded customers in recognition
 that the County incurred costs for distribution infrastructure to provide reclaimed water to these
 customers. This charge should continue until FY 2029 when the associated debt is retired.

4.2 RATE STRUCTURE MODIFICATIONS

Upon review of PCU's existing rate structure for water, sewer, and reclaimed water service, Stantec identified several rate structure modifications to be considered for implementation. Detailed schedules of recommended rates for FY 2024 through FY 2027 are included in Appendix F of this report.

4.2.1 Water

4.2.1.1 Base Charges

As a result of the 2019 Rate Study, PCU implemented a scaled base charge applied based upon the connection's meter size and consistent with local and customary industry practice recognizing higher potential water demand that PCU must size its water system to meet and therefore reflected in a commensurate readiness-to-serve charge. While this modification to the rate structure addressed proportionately in cost recovery between customers with meters of varied sizes, the level of retail revenues recovered from fixed charges is only approximately 16%. While improved from the prior rate study, this level of cost recovery could lead to revenue instability if water demands decreased and demonstrates a disconnect between the fixed costs of the water system and the fixed revenues it receives from customers. As such, Stantec recommends that PCU maintain its existing base charge structure but apply a higher portion of the overall 5.0% recommended rate increase in each year from FY 2024 through FY 2027 to base charges and therefore increase the percentage of revenue recovered from the base charges to approximately 22.0%.

4.2.1.2 Volumetric Rates

As discussed, an inclining block rate structure for residential customers is common both locally and throughout Florida. Stantec recommends that PCU establish an initial two-block inclining rate structure for residential and multi-family customers and maintain the uniform rate applicable to non-residential customers. This structure establishes a lower unit price per thousand gallons to recover the water system's average day costs in the first tier while tier two is priced higher to recover the costs of PCU to meet peak demands. The recommended tiers are summarized in Table 4-2.



Rate Design

Table 4-2: Recommended Residential Inclining Block Structure

Block	Monthly Water Demand
Block 1	0 – 4,000 Gallons per Unit
Block 2	All Use Above 4,000 Gallons per Unit

For multi-family master-metered customers whereby PCU has identified the number of dwelling units associated with the meter, the blocks should be scaled by the number of units (i.e., the block one rate would be applied to the first 40,000 gallons per month for a multi-family residential building with ten units).

Operational changes such as PCU's on-going AMI implementation and a potential shift from bi-monthly to monthly billing will allow PCU to gather important data and give customers more immediate opportunity to modify water use behaviors and implement a more comprehensive inclining-block rate structure with additional blocks and pricing in future rate studies.

No structural modifications are recommended to the uniform volumetric rate for non-residential customers.

Recommended volumetric water rates in FY 2024 through FY 2027 include this structural modification and are designed to recover the remaining revenues not recovered from the base charges.

4.2.2 Sewer

No structural modifications are recommended to the sewer base charges or volumetric rates. As such, the recommended sewer rate revenue adjustments identified in the RSA portion of this Study should be applied across-the-board to the sewer system's base charges and volumetric rates.

4.2.3 Reclaimed Water

As a result of the 2019 Rate Study, PCU addressed the key objective of standardizing rates between like customer types. During this analysis, Stantec and PCU staff identified two key objectives to address relative to reclaimed water rates as meters are deployed; 1) develop a fixed and variable component for metered service like PCU has for water and sewer service to provide a pricing signal for excessive reclaimed water use and provide enhanced revenue stability to recover fixed costs during periods when reclaimed water is not widely used, and 2) improve overall cost recovery. As such, Stantec recommends the following reclaimed water rate structure modifications which will apply to all customers as they are metered:

 Establish a base charge including an allowance of reclaimed water user per month. The volumetric rate will apply to demand above the monthly allowance.



Rate Design

Establish the monthly allowance to be 20,000 gallons in FY 2024, 18,000 in FY 2025, 16,000 gallons in FY 2026, and 15,000 gallons in FY 2027. This represents a reasonable allowance of irrigation needs for the typical single-family residence while the phased implementation will minimize the impact to customer's bills as they adjust their usage patterns.

Stantec doesn't recommend modifications to the flat fee rate structure for unmetered customers which will eventually become obsolete once all reclaimed water customers are metered, which is estimated to occur by FY 2027. However, the recommended rates for FY 2024 through FY 2027 reflect increases to continue to improve overall cost recovery for the retail customers. No changes are recommended to the bi-monthly billing charge or to the monthly availability charge for unfunded customers. However, Stantec does recommend retiring the availability charge after FY 2028 when the debt service for the localized and County funded distribution infrastructure debt is retired.

In addition, while no structural modifications are recommended for the wholesale rates, increases are recommended to significantly improve the level of cost recovery for these customers. Overall (retail and wholesale) projected reclaimed water system cost recovery with the recommended rate structure modifications and rate adjustments is shown in Table 4-3.

Table 4-3: Reclaimed Water System Cost Recovery (FY 2023 Costs)

FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
36%	38%	41%	43%	46%

Schedules of recommended reclaimed water rates for FY 2024 through FY 2027 are included in Appendix F of this report.

4.3 CUSTOMER BILL IMPACTS

Table 4-4 presents the monthly impacts of the recommended rate structure for FY 2024 to a single-family residential customer with water and sewer service. The typical usage of a single-family residential customer is approximately 5,000 gallons per month. Additional customer bill impact tables for commercial customers with larger meters are provided in Appendix F.

Rate Design

Table 4-4: Residential 3/4" Meter Customer Water & Sewer Monthly Bill Impacts

Water Use (Kgals)	Cumulative % Bills	Total Bill: Existing FY 2023 Bill	Total Bill: Proposed FY 2024 Rates	\$ Change	% Change
0	4%	\$26.44	\$28.48	\$2.04	7.7%
1	13%	\$38.74	\$39.77	\$1.03	2.7%
2	27%	\$51.04	\$51.06	\$0.02	0.0%
3	43%	\$63.34	\$62.35	-\$0.99	-1.6%
4	58%	\$75.64	\$73.64	-\$2.00	-2.6%
5	70%	\$87.94	\$89.79	\$1.85	2.1%
6	77%	\$100.24	\$105.94	\$5.70	5.7%
7	82%	\$112.54	\$122.09	\$9.55	8.5%
8	86%	\$124.84	\$138.24	\$13.40	10.7%
9	88%	\$137.14	\$154.39	\$17.25	12.6%
10	90%	\$149.44	\$170.54	\$21.10	14.1%
11	92%	\$154.57	\$179.23	\$24.66	16.0%
12	93%	\$159.70	\$187.92	\$28.22	17.7%
13	94%	\$164.83	\$196.61	\$31.78	19.3%
14	94%	\$169.96	\$205.30	\$35.34	20.8%
15	95%	\$175.09	\$213.99	\$38.90	22.2%
16	96%	\$180.22	\$222.68	\$42.46	23.6%
17	96%	\$185.35	\$231.37	\$46.02	24.8%
18	97%	\$190.48	\$240.06	\$49.58	26.0%
19	97%	\$195.61	\$248.75	\$53.14	27.2%
20	97%	\$200.74	\$257.44	\$56.70	28.2%

Table 4-5 presents the monthly impacts of the recommended reclaimed water rate structure for FY 2024. Additional customer bill impact tables for FY 2025 through FY 2027 are provided in Appendix F.



Rate Design

Table 4-5: Reclaimed Water Monthly Bill Impacts

Customer Type	FY 2023	FY 2024	% Change	Customers 45	% Of Customers
Funded/Un-Metered	\$23.00	\$24.00	4.3%	759	5.2%
County Funded/Un-Metered	\$23.00	\$24.00	4.3%	13,285	91.5%
Funded/Metered (20,000 gallons per month)	\$23.00	\$24.00	4.3%	58	0.4%
County Funded/Metered (20,000 gallons per month)	\$23.00	\$24.00	4.3%	415	2.9%



⁴⁵ Represents customer counts from PCU's FY 2022 billing data. Reflects customers using reclaimed water service (excludes customers paying only a monthly availability charge). Total reclaimed water customer accounts with service available as of July 25, 2022, were approximately 23,000 as provided by PCU staff.



Benchmarking

5.0 BENCHMARKING

As part of this Rate Study, Stantec performed comparative surveys of residential water, sewer, and reclaimed water rates and resulting bills at various usage levels to provide perspective on how the existing and calculated water and sewer bills for the County compare with neighboring communities. Additionally, Stantec evaluated recent national trends relative to water and sewer costs.

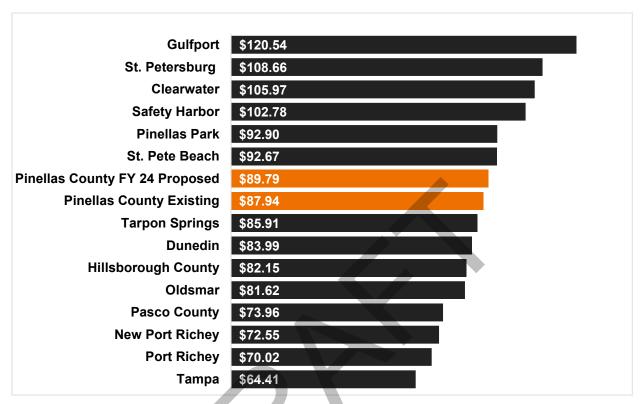
5.1 LOCAL BILL COMPARISONS

Stantec completed a local residential monthly water and sewer bill comparisons based upon the Utility's various amounts of monthly water use. Specifically, surveys were conducted for three distinct types of single-family residential users: "Low-End" Users using 3,000 gallons of water per month, "Typical" Users using 5,000 gallons of water per month, and "High-End" Users using 10,000 gallons of water per month and are provided in Appendix G. The comparisons of water and sewer bills included the neighboring communities from the greater Tampa Bay area based upon rates in effect during FY 2023. These comparisons demonstrate that the Utility's rates and resulting bills for the typical residential customer are comparable to the monthly cost of other local agencies. Furthermore, they are expected to remain comparable in the foreseeable future to other communities given the recommended rate indexing plan identified herein and already adopted or planned multi-year plans of rate adjustments from other agencies. The combined water and sewer bill for 5,000 gallons for FY 2023 and recommended rates for PCU in FY 2024 is provided in Figure 10.



Benchmarking





Furthermore, a separate survey of neighboring communities from the surrounding geographic area was conducted which compared the monthly cost for residential reclaimed water service assuming the FY 2023 rates for 1) unmetered residential customers and 2) metered residential customers using 20,000 gallons per month. The results of each survey demonstrate that PCU's monthly residential reclaimed water bills are within the range of other neighboring communities. Results of each survey are presented in Appendix G of this report.

5.2 NATIONAL INDUSTRY TRENDS

The levels of the recommended rate adjustments presented herein are comparable to national trends and our local industry experience. Figure 11 provides the annual change in water and sewer bills for the typical residential customer since 2013 as measured by the United States Consumer Price Index (CPI) Water and Sewerage Maintenance Series, which have increased by 3.9% 47 annually. Longer-term, this index has

⁴⁷ Measured by the annual change in the index from October of each year.

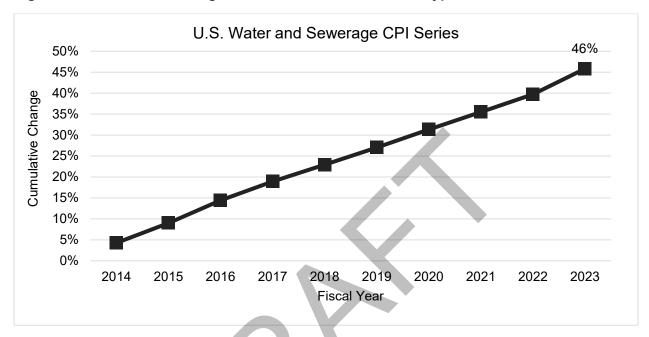


⁴⁶ Based on FY 2023 rates.

Benchmarking

observed annual increases averaging 4.9% since 2003 while more recently the index increased during the twelve-month period ending March 2023 by 4.9%.

Figure 11: Cumulative Change in Water and Sewer Cost to Typical Residential Customer





Conclusions and Recommendations

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the analyses presented in this report, Stantec has reached the following conclusions and recommendations:

- Based upon the data and assumptions presented herein, the approved FY 2023 water rate adjustments, followed by 5.0% annual water system rate revenue adjustments each year thereafter, have been determined sufficient to fund the financial requirements of the Water Fund through the immediate five-year planning and ten-year projection period assuming the utilization of some level of debt financing for the identified CIP.
- The capital financing plan developed for the Water Fund includes funding of approximately \$33 million in capital projects annually over the immediate five-year planning period from a combination of grants, PAYGO (cash funding), and the issuance of approximately \$21 million in new borrowing. The Water Fund does not carry outstanding debt and anticipated borrowing needs are not projected until FY 2026. As such, the timing and level of actual borrowing should be regularly evaluated based on the Utility's capital and system reinvestment needs.
- Relative to the water system's rates, Stantec recommends that PCU transition to an inclining-block volumetric water rate structure consisting of two tiers, the first with a lower rate applied to usage up to 4,000 gallons per month per unit for residential and multi-family customers, and a higher rate applied to usage above 4,000 gallons per month per unit. Additionally, Stantec recommends increasing the level of base charges relative to volumetric rates to enhance revenue stability and cost recovery from fixed charges. These modifications result in the recovery of the required 5.0% annual water system retail rate revenue adjustments identified in the RSA. As such, it is recommended that the County consider adopting the recommended retail water base charge rate modifications and rates presented herein to achieve the annual retail rate adjustments of 5.0% from FY 2024 through FY 2027.
- The variance between the water system COSA results and revenue distribution provided by the current water rates is well within acceptable tolerances recognizing the changes in cost allocations that can occur from year to year. In addition, based upon expected substantial demand reductions from the City of Clearwater, the results of this water system COSA may change over the next several years as many system costs are allocated between the retail and wholesale customer classes based upon the metered flows of each respective class. As such, it is our conclusion that the current water rates reflect a fair and equitable allocation of cost between the retail and wholesale customers of the system. Therefore, PCU should adjust its wholesale water rates at the same level as retail rate revenues which is 5.0% annually from FY 2024 through FY 2027.
- Based upon the data and assumptions presented herein, the approved FY 2023 sewer and reclaimed water rate adjustments, followed by 4.0% annual retail sewer rate adjustments beginning



Conclusions and Recommendations

in FY 2024 through FY 2032, and the annual reclaimed water rate increases described herein have been determined sufficient to fund the financial requirements of the Sewer Fund through the immediate five-year planning and ten-year projection periods assuming the utilization of some level of debt financing for the identified CIP. Based on the sewer system COSA results identifying that wholesale customers are slightly over-recovering their costs, PCU should maintain wholesale sewer rates at current levels through FY 2027 and re-evaluate the cost of service as part of its next rate study.

- The RSA reflects projected capital investment within the Sewer Fund needed over the immediate five-year planning period of approximately \$50 million per year. This Study developed a capital funding plan that included approximately \$17 million to be funded through the issuance of new debt through FY 2027.
- No structural modifications are recommended to the sewer rate structure. As such, it is recommended that the County consider adopting the annual rate adjustments proposed herein for FY 2024 through FY 2027 for the Sewer Fund and apply 4.0% annual increases for retail sewer base and volumetric charges.
- Several modifications to the reclaimed water rate structure were identified to improve overall cost recovery, implement a base and volumetric structure like water and sewer service, and send conservation pricing signals for reclaimed water demand for metered customers. As such, it is recommended that the County consider adopting the rates proposed herein for FY 2024 through FY 2027 for reclaimed water service.
- The rate adjustments identified herein are comparable to those of neighboring utility systems, our industry experience locally and state-wide, as well as the annual changes in relevant national inflation-related indices.
- It is recommended that the County take any opportunity available to review its special service agreements with wholesale and large retail reclaimed water customers and adjust the reclaimed water rates charged to these customers as recommended herein, so that the level of cost recovery from these users is more consistent with that of the PCU's traditional retail customers, while keeping in mind any market price limitations.
- The recommended multi-year rate plan improves the overall cost recovery of the reclaimed water system. However, it is recommended that the BOCC establish a target level of future reclaimed water cost recovery based upon its goals and objectives for providing reclaimed and implement a plan to achieve this target over time. This approach will moderate the impacts to users and maintain comparable rates to those charged by other neighboring reclaimed water utility systems.
- Finally, Stantec recommends that PCU conducts annual or bi-annual Water Fund and Sewer Fund RSA updates as PCU continues to evaluate its infrastructure needs through its current master planning, flow monitoring, and condition assessment studies. Doing so will allow for the recognition



Conclusions and Recommendations

of updated revenue and expense information, as well as changes in demands and/or regulatory requirements, so that any necessary adjustments can be made to the identified rate revenue adjustment plans. This will enable the Water Fund and Sewer Fund to continue to meet their respective cost requirements over time.





Disclaimer

Disclaimer

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Additionally, the purpose of this document is to summarize Stantec's analysis and findings related to this project, and it is not intended to address all aspects that may surround the subject area. Therefore, this document may have limitations, assumptions, or reliance on data that are not readily apparent on the face of it. Moreover, the reader should understand that Stantec was called on to provide judgments on a variety of critical factors which are incapable of precise measurement. As such, the use of this document and its findings by the County should only occur after consultation with Stantec, and any use of this document and findings by any other person is done so entirely at their own risk.



APPENDIX: SUPPORTING SCHEDULES

Appendix A – Water Fund Revenue Sufficiency Analysis

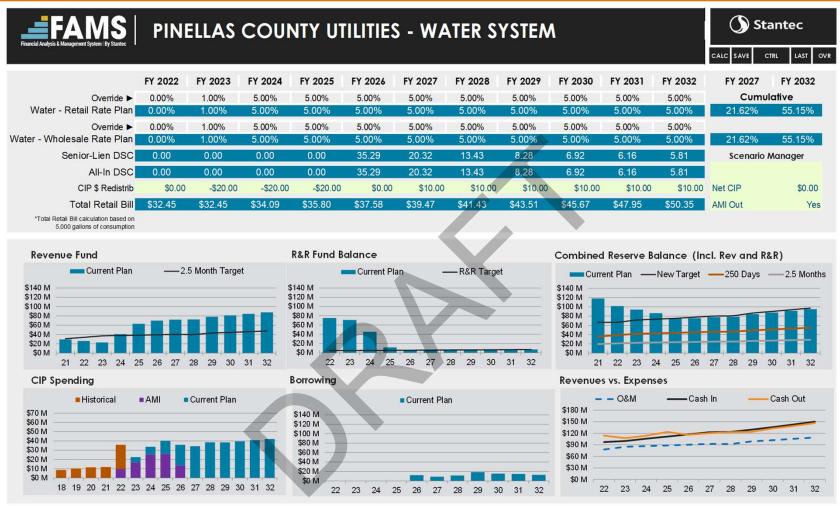
Appendix A WATER FUND REVENUE SUFFICIENCY ANALYSIS

Schedule 1	Financial Management Plan Summary
Schedule 2	Assumptions
Schedule 3	FY 2022 Beginning Fund Balances
Schedule 4	Projection of Cash Inflows
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Financial Management Plan Summary

Schedule 1





Assumptions											S	chedule 2
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Rate Increase Adoption Date		10/1/2021	10/1/2022	10/1/2023	10/1/2024	10/1/2025	10/1/2026	10/1/2027	10/1/2028	10/1/2029	10/1/2030	10/1/2031
Annual Growth												
Water - Retail					440.000							
Ending # of Customer Accounts Customer Accounts Growth		115,674 908	115,905 231	116,137	116,369 232	116,602 233	116,835 233	117,069 234	117,303 234	117,538 235	117,773 235	118,009 236
% Change in Customer Accounts		0.79%	0.20%	232 0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%
Water Volume (Gals.)		13,074,385	13,415,082	13,546,971	13,679,108	13,706,466	13,733,879	13,761,347	13,788,870	13,816,447	13,844,080	13,871,768
% Change in Water Use ¹		2.61%	2.61%	0.98%	0.98%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%
Water - Wholesale												
Ending # of Customer Accounts		7	7	7	7	7	7	7	7	7	7	7
Customer Accounts Growth		-	-	-	-	-	-	-	-	-	-	-
% Change in Customer Accounts		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Water Volume (Gals.)		4,044,736	4,052,826	4,060,931	4,069,053	4,077,191	4,085,346	2,998,516	3,004,513	3,010,522	3,016,543	3,022,576
% Change in Water Use ²		3.69%	0.20%	0.20%	0.20%	0.20%	0.20%	-26.60%	0.20%	0.20%	0.20%	0.20%
Capital Spending												
Annual Capital Spending (Future Year Dollars)	\$	35,877,089 \$	22.495.979 \$	33,768,465	\$ 40.178.749 \$	35,880,696 \$	34.278.947 \$	38,604,754 \$	38,496,246 \$	39,651,133 \$	40,840,667 \$	42.065.887
Annual Percent Executed ³	•	71%	,, +	,,	,,		7 1,2 17,2 11		,, +	,,	,,	,,
Water Impact Fees												
Water Impact Fees Water Impact Fees		\$352	\$352	\$352	\$352	\$352	\$352	\$352	\$352	\$352	\$352	\$352
•		φ35∠	\$332	φ352	\$302	\$352	\$352	\$33Z	φ33Z	\$33Z	φ33Z	φ33Z
Average Annual Interest Earnings Rate												
Water System Enterprise Fund		0.72%	0.40%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
Annual Operating Expense Cost Escalation												
Personal Services		N/A		3.08%	3.08%	3.08%	3.08%	3.08%	3.08%	3.08%	0.00%	0.00%
Power			eflects Adopted	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	0.00%	0.00%
Chemicals		N/A	Budget	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	0.00%	0.00%
Regional Water (Tampa Bay Water) 4			v/Adjustments	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	0.00%	0.00%
All Other O&M Expenses		N/A		2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	0.00%	0.00%
Reserve Targets												
Operating Reserve (Months of O&M)		5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
Total Reserve Calculation		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Renewal & Replacement	\$	11,666,017 \$	12,015,997 \$	12,376,477	\$ 12,747,772 \$	13,130,205 \$	13,524,111 \$	13,929,834 \$	14,347,729 \$	14,778,161 \$	15,221,506 \$	15,678,151
Insurance Deductible	•	5,000,000	5,000,000	5,150,000	5,304,500	5,463,635	5,627,544	5,796,370	5,970,261	6,149,369	6,333,850	6,523,866
Revenue Loss during Natural Disaster		25,530,283	27,900,596	28,509,070	29,001,567	29,939,365	30,828,367	30,942,443	33,725,698	35,111,596	36,666,591	38,101,312
General Contingency		3,106,184	3,394,573	3,468,603	3,528,524	3,613,263	3,692,225	3,672,883	3,959,285	4,079,613	4,223,931	4,357,991
Liquidity		15,956,427	17,437,873	17,818,169	18,125,979	18,712,103	19,267,729	19,339,027	21,078,561	21,944,748	22,916,619	23,813,320
Rate Stabilization Reserve		5,608,393	5,785,105	6,124,840	6,484,185	6,822,011	7,177,438	7,163,917	7,537,157	7,929,843	8,342,988	8,777,658
Total Recommended Reserve	\$	66,867,304 \$	71,534,143 \$	73,447,159	\$ 75,192,526 \$	77,680,582 \$	80,117,414 \$	80,844,474 \$	86,618,692 \$	89,993,331 \$	93,705,485 \$	97,252,298
Total Reserve (Months of O&M)		10.3	10.1	10.2	10.2	10.3	10.4	10.6	10.5	10.6	10.6	10.7
Operating Budget Execution Percentage												
Personal Services 5		100%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Tampa Bay Water Expense		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
O&M Expenses		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Operating: Minor Capital Outlay		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
-1 J												. 2070

¹ Reflects expected increases in billed water use in FY 2023 through FY 2025 resulting from AMI impementation per County's analysis.



² Wholesale water use decline in FY 2028 reflects projected demand reduction from Clearwater as the City considers construction of a new treatment plant.

³ Capital execution in FY 2022 calculated to match total capital spending shown in PCU's forecast.

⁴ Estimate based on projected Tampa Bay Water expenses and changes in member water demands as projected by Stantec.

⁵ FY 2022 expenses based on actuals. Future year projections executed at 95% per PCU's forecast.

FY 2022 Beginning Balances as of 10/1/2021

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Groupin	g of Funds in Model	Re	Revenue Fund		estricted eserves	ter Impact Renewal & Replacemen			Re	Vehicle placement Reserve
Current Assets Cash Investments Accounts and notes receivable, net Accrued interest recievable Due from Other Governments Inventory Prepaid Items		\$	5,483,414 17,302,369 13,136,284 47,140 1,563,240 1,564,008 57,075	\$	308,000 6,645,497 - 17,493 - -	\$ 74,248 483,429 - 1,278 - -	\$	3,722,710 85,034,365 1 223,836 785,438	\$	- - - - -
Total Assets		\$		\$	6,970,990	\$ 558,956	\$	89,766,350	\$	
Current Liabilities Vouchers Payable Contracts Payable Due to other governments Accrued liabilities Compensated absences Deposits and other current liabilities		\$	(1,680,517) - (1,249,521) (239,790) (984,096) (2,324)	\$	- - - - (6,970,990)	\$ - - - -	\$	(946,681) (97,521) (34,998) (3,874) (12,252)	\$	- - - - -
Calculated Fund Balance (Assets - Liabilities) Plus/(Less): Inventories Plus/(Less): Vehicle Replacement		\$	34,997,282 (1,564,008) (3,862,000)	\$	-	\$ 558,956 - -	\$	88,671,024 - -	\$	3,862,000
Net Unrestricted Fund Balance		\$	29,571,274	\$	-	\$ 558,956	\$	88,671,024	\$	3,862,000
Available Fund Balance		\$	29,571,274	\$	-	\$ 558,956	\$	88,671,024	\$	3,862,000
Fund Summary						 				
Revenue Fund Water Impact Fees Renewal & Replacement	\$ 29,571,274 558,956 88,671,024									

3,862,000

\$ 122,663,253

Source: FY 2021 ACFR and Trial Balances provided by County staff.

Vehicle Replacement Reserve

Total Available Funds



Pro	jection of Cash Inflows																					Sc	hedule 4
			FY 2022	F	Y 2023		FY 2024	ı	FY 2025		FY 2026		FY 2027		FY 2028		FY 2029		FY 2030		FY 2031		FY 2032
	Rate Revenue Growth Assumptions Water - Retail																						
1 2	% Change in Retail Customers % Change in Retail Water Use		0.79% 2.61%		0.20% 2.61%		0.20% 0.98%		0.20% 0.98%		0.20% 0.20%		0.20% 0.20%		0.20% 0.20%		0.20% 0.20%		0.20% 0.20%		0.20% 0.20%		0.20% 0.20%
	Water - Wholesale																						
3	% Change in Wholesale Customers		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
4	% Change in Wholesale Water Use ¹		3.69%		0.20%		0.20%		0.20%		0.20%		0.20%		-26.60%		0.20%		0.20%		0.20%		0.20%
	Proposed Rate Increase ²																						
5	Retail		0.00%		1.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%
6	Wholesale		0.00%		1.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%		5.00%
	Rate Revenue																						
7	Retail Base Rate Revenue	\$	11,327,810		11,463,970		12,061,243		12,689,634	\$	13,350,764	- 1	14,046,339	\$	14,778,153	\$	15,548,095	\$	16,358,150		17,210,410		18,107,072
8	Retail Volumetric Rate Revenue		64,258,449		66,592,247		70,609,291		74,862,911		78,763,269	47	82,866,835		87,184,198		91,726,494		96,505,445	1	01,533,378		106,823,267
9 10	Wholesale Rate Revenue Total Water Rate Revenue	•	15,861,448 91,447,707		16,052,103 94,108,320	•	16,888,417 99,558,951		17,768,304 05,320,849	•	18,694,032 110,808,065	• 1	19,667,991	¢ 1	15,157,477	•	15,947,182 123,221,770	6 /	16,778,030 129,641,625	¢ 1	17,652,165 36,395,953	•	18,571,843 143,502,182
10	Total Water Nate Nevertue	Ψ	31,447,707	φ,	34,100,320	Ψ	33,330,331	ΨΙ	03,320,043	Ψ	110,000,000	Ψ	110,301,103	4	117,119,027	Ψ	123,221,770	Ψ	129,041,023	Ψ	30,333,333	Ψ	143,302,102
	Other Operating Revenue 3																						
11	Service Charges	\$	997,500	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505	\$	1,060,505
12	Water-Late Payment Fee		570,000		600,000	•	600,000		600,000		600,000		600,000		600,000		600,000		600,000		600,000		600,000
13	Wholesale Water Meter SC		19,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000
14	Backflow Maint Fee - SAP		712,500		750,000		750,000		750,000		750,000		750,000		750,000		750,000		750,000		750,000		750,000
15	Fireline Payments		209,000		220,000		220,000		220,000		220,000		220,000		220,000		220,000		220,000		220,000		220,000
16	Contractual Billing Svc		408,500		430,000		430,000		430,000		430,000		430,000		430,000		430,000		430,000		430,000		430,000
17	Water Conservation		342,000		385,000		404,250		424,463		445,686		467,970		491,368		515,937		541,734		568,820		597,261
18	Wellhead Protection		380		400		400		400		400		400		400		400		400		400		400
19	Rent-Bldg/Space		351,500		370,000		370,000		370,000	\mathbf{Z}	370,000		370,000		370,000		370,000		370,000		370,000		370,000
20	Sale- Surplus Equipment		57,000		57,000		57,000		57,000	7	57,000		57,000		57,000		57,000		57,000		57,000		57,000
21	Ins Proceeds-Furn/Fxtr/Eq		9,500		16,000		16,000		16,000	N	16,000		16,000		16,000		16,000		16,000		16,000		16,000
22 23	Sale-Forestry Operations ISI-CC Trans Rev-SAP		567,200 42,750		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000		597,053 45,000
23 24	Other Miscellaneous Revenue		28,500		30,000		30,000		30,000	V	30,000		30,000		30,000		30,000		30,000		30,000		30,000
25	Total Other Operating Revenue	\$	4,315,330	\$	4,580,958	\$	4,600,208	\$	4,620,420	S		\$	4,663,928	\$	4,687,326	\$	4,711,895	\$	4,737,692	\$	4.764.778	\$	4,793,219
	Non-Operating Revenue	•	.,,	*	.,000,000	*	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*	.,020,120	•	.,,	*	.,000,020	•	.,00.,020	•	.,,	*	.,,	*	.,,	•	.,,
26	Fed Grant-Other Physical Environ	\$	33,000	\$	35,000	•	35,000	. ¢	_	\$		\$	_	\$		\$		\$	-	Ф		\$	
27	Transfer from BTS	Ψ	7,830	Ψ	55,000	Ψ.	33,000	Ψ	_	Ψ	_	Ψ	_	Ψ	_	Ψ	_	Ψ	_	Ψ	_	Ψ	_
28	Total Non-Operating Revenue	\$	40,830	\$	35,000	\$	35,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
	Transfers In		,																				
29	Cap Con-Pvt-Wtr Back Flow	\$	125,334	s	130,000	\$	130,000	\$	130,000	\$	130,000	\$	130,000	\$	130,000	\$	130,000	\$	130,000	\$	130,000	\$	130,000
30	Cap Con-Pvt-Wtr Connectn	•	580,080	•	550,000	Ψ.	550,000	Ť	550,000	_	550,000	~	550,000	~	550,000	~	550,000	*	550,000	~	550,000	•	550,000
31	Total Transfers In	\$	705,414	\$	680,000	\$	680,000	\$	680,000	\$		\$	680,000	\$	680,000	\$	680,000	\$	680,000	\$		\$	680,000
	Interest Income					M																	
32	Unrestricted	\$	785,903	\$	406,559	\$	941,158	\$	843,361	\$	787,939	\$	804,410	\$	820,229	\$	852,736	\$	898,480	\$	933,914	\$	970,209
33	Total Interest Income	\$	785,903	\$	406,559	\$	941,158	\$	843,361	\$		\$	804,410	\$	820,229	\$	852,736	\$	898,480	\$	933,914	\$	970,209
	Water Impact Fees																						
34	Water Impact Fees	\$	117,216	\$	81,312	\$	81,664	\$	81,664	\$	82,016	\$	82,016	\$	82,368	\$	82,368	\$	82,720	\$	82,720	\$	83,072
35	Total Water Impact Fees	\$	117,216	\$	81,312	\$	81,664	\$	81,664	\$	82,016	\$	82,016	\$	82,368	\$	82,368	\$	82,720	\$	82,720	\$	83,072
36	Total Cash Inflows	\$	97.412.400	\$ 9	99.892.149	\$ 1	05.896.981	\$ 1	11.546.294	\$	116,999,663	\$ 1	122.811.519	\$ 1	123.389.751	\$	129.548.769	\$ '	36.040.516	\$ 1	42.857.366	\$	150.028.683
			,,.00	Ť,	,,. 10	Ť.	,000,001	Ţ '	,		,,	_	,,	Ŧ	,,	_	,,	_	,,	Ť.	,,	_	,

¹ Wholesale water use decline in FY 2028 reflects projected demand reduction from Clearwater as the City considers construction of a new treatment plant.



² FY 2022 and FY 2023 reflect adopted rate increases by the BCC.

³ FY 2023 Other Operating Revenues are based upon the Adopted Budget, adjusted to account for the County's practice of budgeting at 95% of projected revenues.

Expense Line Item	ı	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
431040 - Warehouse Support												
Personal Services 5110001 Executive Salaries	\$	138,564	\$ 126,120	\$ 130,000	\$ 134,001	\$ 138,128	\$ 142,385	146,775	\$ 151,301	\$ 155,967	\$ 160,776	\$ 165,73
5120001 Regular Salaries & Wages	•	582,245	563,460	580,793	598,670	617,108	636,126	655,741	675,961	696,805	718,291	740,44
5140001 Overtime Pay		55,804	33,800	34,840	35,912	37,018	38,159	39,336	40,549	41,799	43,088	44,41
5150001 One Time COLA Wage Disburse		-	14,040	14,472	14,917	15,377	15,851	16,339	16,843	17,363	17,898	18,45
5210001 FICA Taxes		57,713	51,660	53,249	54,888	56,579	58,322	60,121	61,974	63,886	65,855	67,88
5220001 Retirement Contributions		86,041	81,070	83,564	86,136	88,789	91,525	94,347	97,257	100,255	103,347	106,53
5230001 Hlth,Life,Dntl,Std,Ltd		217,610	222,790	229,643	236,712	244,002	251,522	259,278	267,273	275,514	284,010	292,76
5299991 Reg Salary&Wgs-Contra-Prj 5299992 Benefits-Contra-Projects		(12,546) (4,098)	-	-	-	-	-	-	-	-	-	
Occupations & Maintenance		, ,										
Operations & Maintenance 5310033 General Consulting	\$	- :	\$ 160	\$ 164	\$ 169	s 174	\$ 179 \$	184	\$ 189	\$ 194	\$ 200	\$ 20
5349000 Contract Services-Other	Ψ	52,182	19,500	20,046	20,607	21,184	21.777	22,387	23,014	23,658	24,321	25,00
5400001 Travel and Per Diem		176	14,300	14,700	15,112	15,535	15,970	16,417	16,877	17,350	17,835	18,33
5400100 Transportation Exp		3,000		-	-	-	-	-	-		-	
5400105 Mileage-Local		26	-	-	-/	-	-	-	-	-	-	
5400110 Mileage-Out of Town		263	-	-	-	-		-	-	-	-	
5400200 Meals/Per Diem		926	-	-		-		-	-	-	-	
5400205 Meals-Taxable		11	-	-	-	-	-	-	-	-	-	
5400300 Hotels/Motels/Lodging		6,931	-	-	-	-	-	-	-	-	-	
5400900 Travel-Other		133	4 000	4.042	1 007	2.052	2 111	2 470	2 224	2 202	- 0.057	0.40
5410001 Communication Services 5464000 Repair&Maint-Equipment		2,241 1,234	1,890 7,020	1,943 7,217	1,997 7,419	2,053 7,626	2,111 7,840	2,170 8,059	2,231 8,285	2,293 8,517	2,357 8,756	2,42 9,00
5470001 Printing and Binding Exp		1,183	490	504	518	532	7,640 547	563	578	594	6,750	9,00
5490001 Othr Current Chgs&Obligat		618	60	62	63	65	67	69	71	73	75	7
5490060 Incentives & Awards		336	570	586	602	619	637	654	673	692	711	73
5496521 Intgv Sv-Fleet-Op & Maint		9,891	12,960	13,323	13,696	14,079	14,474	14,879	15,296	15,724	16,164	16,61
5510001 Office Supplies Exp		7,434	2,280	2,344	2,409	2,477	2,546	2,618	2,691	2,766	2,844	2,92
5520005 Small Tools, Supp&Allow.		515	5,330	5,479	5,633	5,790	5,953	6,119	6,291	6,467	6,648	6,83
5520006 Oper. Supplies-Clothing		297	1,370	1,408	1,448	1,488	1,530	1,573	1,617	1,662	1,709	1,75
5520009 Oper. Supplies-Computer		911	3,000	3,084	3,170	3,259	3,350	3,444	3,541	3,640	3,742	3,84
5520098 PC Purchases under \$5000		2,384	2,450	2,519	2,589	2,662	2,736	2,813	2,892	2,973	3,056	3,14
5520099 PC Purchases under \$1000		1,187 12,439	10,400	10,691	10,991	11,298	- 11,615	11,940	- 12,274	12,618	- 12,971	12.22
5529000 Oper. Supplies-Misc 5540001 Bks,Pub,Subscrp&Membrshps		4,801	650	668	687	706	726	746	767	789	811	13,33 83
5550001 Training and Education Costs		5.764	8.450	8,687	8.930	9.180	9.437	9.701	9.973	10.252	10,539	10,83
Total 431040 - Warehouse Support	\$	1,236,214			-,	-,	\$ 1,335,384		\$ 1,418,415			\$ 1,552,74
431050 Utilities Engineering												
Personal Services 5110001 Executive Salaries	\$	1,221,387	\$ 1,147,080	\$ 1,182,367	\$ 1,218,760	\$ 1,256,296	\$ 1,295,012	1,334,944	\$ 1,376,107	\$ 1,418,540	\$ 1,462,281	\$ 1,507,37
5120001 Regular Salaries & Wages	Ψ	290,216	309,890	319,423	329,255	339,395	349,855	360,642	371,763	383,226	395,043	407,22
5140001 Overtime Pay		1,836	1,050	1,082	1,116	1,150	1,185	1,222	1,260	1,298	1,339	1,38
5150001 One Time COLA Wage Disburse		-	19,200	19,791	20,400	21,028	21,676	22,344	23,033	23,744	24,476	25,23
5210001 FICA Taxes		111,285	109,990	113,374	116,863	120,462	124,175	128,004	131,951	136,019	140,214	144,53
5220001 Retirement Contributions		170,831	172,710	178,023	183,503	189,154	194,983	200,996	207,193	213,582	220,168	226,9
5230001 Hlth,Life,Dntl,Std,Ltd		286,446	307,550	317,011	326,769	336,833	347,213	357,919	368,956	380,333	392,060	404,15
5299989 Rg Sal&Wges-Cntra-Prj-Bur		(221,100)	(257,080)	(264,988)	(273,145)	(281,557)	(290,234)	(299,183)	(308,409)	(317,919)	(327,722)	(337,82
5299991 Reg Salary&Wgs-Contra-Prj 5299992 Benefits-Contra-Projects		(608,051) (225,458)	(644,630) (240,650)	(664,460) (248,053)	(684,912) (255,688)	(706,007) (263,563)	(727,764) (271,685)	(750,205) (280,063)	(773,338) (288,698)	(797,184) (297,601)	(821,765) (306,777)	(847,10 (316,2)
·		(220,400)	(= 10,000)	(240,000)	(250,000)	(250,000)	(=. 1,000)	(200,000)	(200,000)	(201,001)	(550,111)	(010,20
Operations & Maintenance 5310033 General Consulting	\$	829,861	\$ 98,500	\$ 101,258	\$ 104,093	\$ 107,008	\$ 110,004 \$	113,084	\$ 116,251	\$ 119,506	\$ 122,852	\$ 126,29
5349000 Contract Services-Other	Φ	8,766	12,600	12,953	13,315	13,688	14,072	14,466	14,871	15,287	15,715	16,15
5399989 Op Exp-Contra-Proj-Burdng		(278,529)	(324,610)	(333,699)	(343,043)		(362,522)	(372,673)	(383,107)	(393,834)		(416,19
, , ,		(210,529)			(343,043) 6,658	(352,648)	(362,522) 7,036	(372,673) 7,233			(404,862) 7,858	
5400001 Travel and Per Diem		496	6,300	6,476	0,008	6,844	7,030	1,233	7,435	7,644	7,000	8,0
5400100 Transportation Exp 5400105 Mileage-Local		496 71	-	-	-	-	-	-	-	-	-	
3400 TOS IVIIIEAGE-LOCAI		7.1	-	-	-	-	-	-	-	-	-	
		450										
5400110 Mileage-Out of Town 5400200 Meals/Per Diem		153 434	-	-	-	-	-	-	-	-	-	



Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5

Expense Line Item	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
55 5400300 Hotels/Motels/Lodging	1,226										
56 5400900 Travel-Other	43	-	-	-	-	-	-	-	-	-	-
57 5410001 Communication Services	3,576	1,680	1,727	1,775	1,825	1,876	1,929	1,983	2,038	2,095	2,154
58 5420001 Freight	48	30	31	32	33	34	34	35	2,038	2,093	38
59 5420002 Postage	35	20	21	21	22	22	23	24	24	25	26
60 5440001 Rentals and Leases	1,104	1,050	1,079	1,110	1,141	1,173	1,205	1,239	1,274	1,310	1,346
61 5464000 Repair&Maint-Equipment	831	1,570	1,614	1,659	1.706	1,753	1,802	1,853	1,905	1,958	2,013
62 5470001 Printing and Binding Exp	12	110	113	116	120	123	126	130	133	137	141
63 5490001 Othr Current Chgs&Obligat	166	810	833	856	880	905	930	956	983	1,010	1,039
64 5490060 Incentives & Awards	20	010	033	030	880	903	930	930	903	1,010	1,039
65 5496501 Intgv Sv-Info Technology	231,000	269,150	276,686	284,433	292,398	300,585	309,001	317,653	326,547	335,691	345,090
66 5496521 Intgv Sv-Fleet-Op & Maint	4,293	5,060	5,202	5,347	5,497	5,651	5,809	5,972	6,139	6,311	6,488
67 5496901 Intgv Sv-Cost Allocate	325,480	325,480	334,593	343,962	353,593	363,494	373,671	384,134	394,890	405,947	417,313
68 5510001 Office Supplies Exp	863	1,260	1,295	1,332	1,369	1,407	1,447	1,487	1,529	1,572	1,616
69 5520005 Small Tools,Supp&Allow.	9	1,200	1,295	1,552	1,309	1,407	1,447	1,407	1,529	1,572	1,010
70 5520006 Oper. Supplies-Clothing	152	-	-	-			-	-	-	-	-
71 5520009 Oper. Supplies-Computer	166	7,560	7,772	7,989	8,213	8,443	8,679	8,922	9,172	9,429	9,693
72 5520098 PC purchases under \$5,000	9,488	7,500	7,772	7,303	0,213	0,443	0,073	0,322	5,172	5,425	5,055
73 5520099 PC Purchases under \$1000	9,907	_	_	_			_	_	_	_	_
74 5529000 Oper. Supplies-Misc	537	-	-	-	-	-	-	-	-	-	-
75 5540001 Bks,Pub,Subscrp&Membrshps	363	1,600	1,645	1,691	1,738	1,787	1,837	1,888	1,941	1,996	2,051
76 5550001 Training and Education Costs	1,672	5,250	5,397	5,548	5,703	5,863	6,027	6,196	6,370	6,548	6,731
			_								
Capital Outlay											
77 5699981 Personal Svs-Proj-Burdng	\$ 112	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - 9	\$ -	\$ -
78 5699983 Op Exp-Proj-Burdening	142	-	-		-	-	-	-	-	-	-
79 5699991 Reg Salaries&Wages-Projects	282	-	7		-	-	-	-	-	-	-
80 5699992 Benefits-Projects	99		- 4 070 504	- 4 440 045	- 1 100 001	- 4 500 400	- 4 554 050	- 4 507 740	- 1045004	-	
81 Total 431050 Utilities Engineering	\$ 2,180,304	\$ 1,338,530	\$ 1,378,564	\$ 1,419,815	\$ 1,462,321	\$ 1,506,120	\$ 1,551,253	\$ 1,597,740	\$ 1,645,624	\$ 1,694,945	\$ 1,745,747
431070 Field Services											
Personal Services											
82 5110001 Executive Salaries	\$ 57,614		\$ 94,469								
83 5120001 Regular Salaries & Wages	421,603	512,830	528,606	544,876	561,658	578,966	596,819	615,222	634,193	653,748	673,907
84 5140001 Overtime Pay	25,368	31,200	32,160	33,150	34,171	35,224	36,310	37,429	38,584	39,773	41,000
85 5150001 One Time COLA Wage Disburse		15,500	15,977	16,469	16,976	17,499	18,039	18,595	19,168	19,759	20,368
86 5210001 FICA Taxes	36,825	45,000	46,384	47,812	49,285	50,803	52,370	53,985	55,649	57,365	59,134
87 5220001 Retirement Contributions 88 5230001 Hlth,Life,Dntl,Std,Ltd	55,885 181,579	70,710 246,450	72,885 254,031	75,129 261,850	77,442 269,915	79,829 278,233	82,291 286,813	84,828 295,656	87,444 304,773	90,140 314,171	92,920 323,859
89 5299991 Reg Salary&Wgs-Contra-Prj	(45,854)	240,450	234,031	201,030	209,913	210,233	200,013	295,050	304,773	314,171	323,039
90 5299992 Benefits-Contra-Projects	(25,682)										
50 SZSSSSZ BOHONIO GONITA I TOJOSIO	(20,002)										
Operations & Maintenance											
91 5349000 Contract Services-Other	\$ 24,140	\$ 22,880	\$ 23,521	\$ 24,179	\$ 24,856	\$ 25,552	\$ 26,268	\$ 27,003	\$ 27,759	\$ 28,537	\$ 29,336
92 5400001 Travel and Per Diem		4,140	4,256	4,375	4,498	4,624	4,753	4,886	5,023	5,164	5,308
93 5400900 Travel-Other	59	-	-	-	-	-	-	-	-	-	-
94 5410001 Communication Services	2,313	2,600	2,673	2,748	2,825	2,904	2,985	3,069	3,154	3,243	3,334
95 5420001 Freight	66	160	164	169	174	179	184	189	194	200	205
96 5420002 Postage	48	100	103	106	109	112	115	118	121	125	128
97 5433000 Utl Svc-County Water&Swr	284	1,040 650	1,069 668	1,099 687	1,130 706	1,161 726	1,194 746	1,227 767	1,262 789	1,297 811	1,333 833
98 5439000 Utility Svc-Miscellaneous 99 5464000 Repair&Maint-Equipment	11,668	20,800	21,382	21,981	22,597	23,229	23,880	24,548	25,236	25,942	26,669
100 5470001 Printing and Binding Exp	56	1,300	1,336	1,374	1,412	1,452	1,492	1,534	1,577	1,621	1,667
101 5496521 Intgv Sv-Fleet-Op & Maint	48.483	88,050	90,515	93,050	95,655	98,334	101,087	103,917	106,827	109,818	112,893
102 5510001 Office Supplies Exp	82	2,080	2,138	2,198	2.260	2.323	2,388	2,455	2,524	2,594	2,667
103 5520005 Small Tools,Supp&Allow.	555	3,280	3,372	3,466	3,563	3,663	3,766	3,871	3,979	4,091	4,205
104 5520006 Oper. Supplies-Clothing	3,103	4,160	4,276	4,396	4,519	4,646	4,776	4,910	5,047	5,188	5,334
105 5520009 Oper. Supplies-Computer	-	210	216	222	228	235	241	248	255	262	269
106 5520098 PC Purchases under \$5000	9,482	7,540	7,751	7,968	8,191	8,421	8,656	8,899	9,148	9,404	9,667
107 5520099 PC Purchases under \$1000	214	220	226	232	239	245	252	259	267	274	282
108 5529000 Oper. Supplies-Misc	5,009	5,200	5,346	5,495	5,649	5,807	5,970	6,137	6,309	6,486	6,667
109 5540001 Bks,Pub,Subscrp&Membrshps	104	-	-	-	-	-	-	-	-	-	-



Page	Projection of Cash Outflows										S	chedule 5
10 10 10 10 10 10 10 10	Fynense I ine Item	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
11 54000 Comman Sarvings 5 05,004 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 103,	·	106	4,990	5,130	5,273	5,421	5,573	5,729	5,889	6,054	6,224	6,398
11 54000 Comman Sarvings 5 05,004 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 5 103,005 103,	Capital Outlay											
Page	111 5640300 Equip-Vehicle&Heavy Equip											,
Personal Services Pers	112 Total 431070 Field Services	\$ 864,09	\$ 1,335,140	\$ 1,375,323	\$ 1,416,736	\$ 1,459,417	\$ 1,503,407	\$ 1,548,747	\$ 1,595,455	\$ 1,643,575	\$ 1,693,148	\$ 1,744,219
14 19/1000 Regular Scharter & Wages 1,124,815 1,385,500 1,426,300 1,475,105 1,516,307 1,516,307 1,516,303 1,513,301 1,514,500												
15 Standard Coversime Pay 25,000												
18 STANDON O'NO FINO COLA Wage Delaurae												
17. \$2000 FICA Taxes		35,198							- / -			
18 2000 Retinemet Contributions 164,004 193,305 195,005 205,044 211,005 225,045 225,045 225,045 235,045 235,045 275,755 275,755 235,00		101,074										
10 10 10 10 10 10 10 10	118 5220001 Retirement Contributions	164,094	193,380		205,464					239,144	246,518	254,120
Part				570,681	588,247	606,364	625,051	644,324	664,192	684,673	705,785	727,548
Population				-	-	-		-	-	-	-	-
122 5300930 General Consulting 5 68,88 5 10,680 10,860 5 10,860 5 11,860 5 11,872 5 11708 5 12,124 5 12,485 5 12,124 5 13,717 5 13,539 13,539 13,540 13,000 13	121 5299992 Benefits-Contra-Projects	(9,138	-	-	-			-	-	-	-	-
123 549000 Contract Services-Other	Operations & Maintenance											
124 5400000 Traverland Per Dem 17,333 22,500 23,151 23,1790 24,465 25,150 25,854 26,578 27,322 28,088 28,874 28,070 28,000						\$ 11,472						
15 540010 Transportation Exp. 18 1												
18 5400110 Missap-Cute of Town 18 1				23,151	23,799	24,465	25,150	25,854	26,578	21,322	28,088	28,874
127 5400000 ManishPer Diem				_			_	_	_	_	_	_
129 500000 Trave-Other 49 3.28 3.372 3.466 3.563 3.663 3.766 3.871 3.979 4.991 4.205 4.2					-	-	-	-	-	-	-	-
100 100					-	-	-	-	-	-	-	-
181 520001 Freight 182,500 189,160 194,460 194,500 194,460 194,500 194,460 194,500 194,460 194,500 194,460 194,500 1				2 2 7 2	-	-	-		-	-	-	-
122 520,0002 Poetlage 182,500 189,15		2,772						-,		- ,		
133 5440001 Rentals and Leases		182.502										
14,490 14,490 14,490 14,490 14,890 15,235 15,662 16,00 16,551 17,014 17,910 17,980 18,444 19,001 19,001 19,000 19				-	-	-	· -	-	-	-	-	-
186												
137 5010001 Office Supplies Exp												
18 520009 Oper. Supplies-Computer 354 3,820 3,927 4,037 4,150 4,266 4,386 4,508 4,608 4,608 5,508												
195 5520009 PC Purchases under \$1000 1,539 1,564 1,666 1												
41 54-0001 8ks PLN Subscrp Membrshps 1,510 2,600 2,673 2,768 2,825 2,904 2,985 3,069 3,164 3,243 3,344 3,344 3,344 3,550001 7 maining and Education Costs 5,200				-	-	-	-,	-	-	-	-	-
142 5550001 Training and Education Costs 1,030												
Capital Outslay 143 5520098 PC Purchases under \$5000 \$ 17.634 \$ 2.500 \$ 2.570 \$ 2.642 \$ 2.716 \$ 2.792 \$ 2.870 \$ 2.870 \$ 2.951 \$ 3.033 \$ 3.118 \$ 3.205 \$ 14.8500100 Software-Purchased \$ 191.657 \$ 120.630 \$ 124.008 \$ 124.008 \$ 124.008 \$ 134.719 \$ 134.719 \$ 138.491 \$ 142.369 \$ 146.355 \$ 150.453 \$ 154.665 \$ 14.857 \$ 120.630 \$ 1.94.857 \$ 1.24.808 \$ 1.24.8												
\$\frac{1}{144}\$\frac{1}{5600100}\$\frac{1}{560000}\$\	-	588	2,620	2,693	2,769	2,846	2,926	3,008	3,092	3,179	3,208	3,359
148 5880100 Software-Purchased 191,867 120,630 124,008 127,480 131,049 134,719 138,491 142,369 146,355 150,453 154,665 146 146 146,355 150,453 154,665 145 146,305 1		\$ 17.63/	\$ 2,500	\$ 2,570	\$ 2.642	¢ 2.716	¢ 2.702	\$ 2,870	¢ 2.051	¢ 3.033	\$ 3.118	¢ 3.205
A31130 Water & Sewer Administration Personal Services Person												
Personal Services Santa	145 Total 431085 Customer Service	\$ 3,637,419	\$ 4,328,220	\$ 4,456,493	\$ 4,588,623	\$ 4,724,729	\$ 4,864,932	\$ 5,009,358	\$ 5,158,081	\$ 5,311,229	\$ 5,468,935	\$ 5,631,333
Personal Services Santa	424420 Water & Carrey Administration											
146 5110001 Executive Salaries 741,529 881,490 908,607 936,574 965,419 995,170 1,025,857 1,057,489 1,090,097 1,123,711 \$1,158,361 147 5120001 Regular Salaries & Wages 194,445 174,820 180,198 185,744 191,465 197,365 203,451 209,725 216,192 222,858 229,730 148 5140001 Overtime Pay 6,803 - 14,040 14,472 14,917 15,377 15,851 16,339 16,843 17,363 17,898 18,560 150 5210001 FICA Taxes 69,930 78,470 80,884 83,374 85,941 88,590 91,321 94,137 97,040 100,032 103,117 151 5220001 Retirement Contributions 105,789 129,720 133,710 137,826 142,071 146,449 150,965 155,620 160,419 165,365 170,464 152 5230001 Hith,Life,Dntl,Std,Lifd 181,564 224,680 231,592 238,720 246,072 253,656 2												
147 5120001 Regular Salaries & Wages 194,445 174,820 180,198 185,744 191,465 197,365 203,451 209,725 216,192 222,858 229,730 148 5140001 Overtime Pay 6,803 - - - - - - - - - - - - - - - - -		\$ 741.529	\$ 881.490	\$ 908.607	\$ 936.574	\$ 965.419	\$ 995.170	\$ 1.025.857	\$ 1.057.489	\$ 1.090.097	\$ 1.123.711	\$ 1.158.361
149 5150001 One Time CÓLA Wage Disburse 14,040 14,472 14,917 15,377 15,851 16,339 16,843 17,363 17,898 18,450 150 5210001 FICA Taxes 69,930 78,470 80,884 83,374 85,941 88,590 91,321 94,137 97,040 100,032 103,174 151 5220001 Retirement Contributions 105,789 129,720 133,710 137,826 142,071 146,449 150,965 155,620 160,419 165,365 170,464 152 5230001 Hilth_Life, Dntl, Strd, Ltd 181,564 224,680 231,592 238,720 246,072 253,656 261,477 269,540 277,851 286,419 295,251 153 5299991 Reg Salary&Wgs-Contra-Prij 29,234 - <td></td>												
150 5210001 FICA Taxes 69,930 78,470 80,884 83,374 85,941 88,590 91,321 94,137 97,040 100,032 103,117 151 5220001 Retirement Contributions 105,789 129,720 133,710 137,826 142,071 146,449 150,965 155,620 160,419 165,365 170,465 152 5230001 Hith, Life, Dntl, Std, Ltd 181,564 224,680 231,592 238,720 246,072 253,656 261,477 269,540 277,851 286,419 295,251 153 5299991 Reg Salary&Wgs-Contra-Prj 29,234		6,803				-
151 5220001 Retirement Contributions 105,789 129,720 133,710 137,826 142,071 146,449 150,965 155,620 160,419 165,365 170,464 152 5230001 Hillh, Life, Drtl, Std, Ltd 181,564 224,680 231,592 238,720 246,072 253,656 261,477 269,540 277,851 286,419 295,251 153 5299992 Banefits-Contra-Projects 16,003 - <td></td> <td>00.000</td> <td></td>		00.000										
152 5230001 Hlth,Life, Dnti,Std,Ltd 181,564 224,680 231,592 238,720 246,072 253,656 261,477 269,540 277,851 286,419 295,251 153 5299991 Reg Salary&Wgs-Contra-Projects 16,003 -												
153 5299991 Reg Salary&Wgs-Contra-Prij 154 5299992 Benefits-Contra-Projects 16,003 16,												
Operations & Maintenance 155 5310031 General Consulting 66,541 133,150 136,878 140,711 144,651 148,701 152,865 157,145 161,545 166,068 170,718 156 5311031 Legal (Other Than Court) - 1,000 1,028 1,057 1,086 1,117 1,148 1,180 1,213 1,247 1,282 157 5320001 Accounting & Auditing 8,871 15,000 15,420 15,852 16,296 16,752 17,221 17,703 18,199 18,708 19,232 158 5340001 Other Contractual Svos - 56,000 57,568 59,180 60,837 62,540 64,292 66,092 67,942 69,845 71,800				-	-	-	-	-	-	-	-	-
155 5310033 General Consulting \$ 66,541 \$ 133,150 \$ 136,878 \$ 140,711 \$ 144,651 \$ 148,701 \$ 152,865 \$ 157,145 \$ 161,545 \$ 166,068 \$ 170,718 156 5311031 Legal (Other Than Court) - 1,000 1,028 1,057 1,086 1,117 1,148 1,180 1,213 1,247 1,282 157 5320001 Accounting & Auditing 8,871 15,000 15,420 15,852 16,296 16,752 17,221 17,703 18,199 18,708 19,232 158 5340001 Other Contractual Svos - 56,000 57,568 59,180 60,837 62,540 66,292 66,092 67,942 69,845 71,800	154 5299992 Benefits-Contra-Projects	16,003	-	-	-	-	-	-	-	-	-	-
156 5311031 Legal (Other Than Court) - 1,000 1,028 1,057 1,086 1,117 1,148 1,180 1,213 1,247 1,282 157 5320001 Accounting & Auditing 8,871 15,000 15,420 15,852 16,296 16,752 17,221 17,703 18,199 18,708 19,232 158 5340001 Other Contractual Svcs - 56,000 57,568 59,180 60,837 62,540 64,292 66,092 67,942 69,845 71,800												
157 5320001 Accounting & Auditing 8,871 15,000 15,420 15,852 16,296 16,752 17,221 17,703 18,199 18,708 19,232 158 5340001 Other Contractual Svcs - 56,000 57,568 59,180 60,837 62,540 64,292 66,092 67,942 69,845 71,800		\$ 66,54										
158 5340001 Other Contractual Svos - 56,000 57,568 59,180 60,837 62,540 64,292 66,092 67,942 69,845 71,800		0.07										
		0,07										
		93,936										



Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 FY 2032 Expense Line Item 160 5400001 Travel and Per Diem 40,000 41,120 42,271 43,455 44,672 45,923 47,208 48,530 49,889 51,286 161 5400100 Transportation Exp 4,308 162 5400105 Mileage-Local 59 2,078 163 5400110 Mileage-Out of Town 164 5400200 Meals/Per Diem 4,993 165 5400205 Meals-Taxable 11 166 5400300 Hotels/Motels/Lodging 15,745 167 5400900 Travel-Other 947 99,885 111,420 114,540 117,747 121,044 124,433 127,917 131,499 135,181 138,966 142,857 168 5410001 Communication Services 13,432 169 5410006 Comm Svcs-Repair & Maint 11.700 12,028 12,364 12,711 13,066 13.808 14,195 14,593 15,001 170 5420002 Postage 10 10 11 11 11 11 12 12 12 13 171 5464000 Repair&Maint-Equipment 4.545 172 5470001 Printing and Binding Exp 1,210 980 1,007 1,036 1.065 1.094 1 125 1.157 1,189 1.222 1.257 4,845 173 5480001 Promotional Activities Exp 4,220 4,338 4,460 4,584 4,713 4.980 5,120 5,263 5,411 174 5490001 Othr Current Chgs&Obligat 683 880 905 930 956 983 1,010 1,039 1,068 1,098 1,128 175 5490060 Incentives & Awards 4,105 8,090 8,317 8,549 8,789 9,035 9.288 9.548 9.815 10,090 10,373 176 5490070 Employee Celebrations & Rec 2,870 2,950 3,033 3,118 3,205 3,295 3,387 3,482 3,580 3,680 177 5496501 Intgv Sv-Info Technology 2,768,980 3,226,280 3,316,616 3,409,481 3.504.947 3,603,085 3,703,971 3,807,683 3.914.298 4.023.898 4,136,567 178 5496521 Intgv Sv-Fleet-Op & Maint 4,260 11,790 12,120 12,459 12,808 13,167 13,536 13,915 14,304 14,705 15,117 179 5496551 Intgv Sv-Risk Financing 1,022,830 1,170,280 1,203,048 1,236,733 1,271,362 1,306,960 1,343,555 1,381,174 1,419,847 1,459,603 1,500,472 180 5496901 Intgv Sv-Cost Allocate 5.037.878 5,178,939 5.323.949 5,473,020 5.626.265 5.783.800 5.945.746 6.112.227 6.283.370 3,901,510 4 900 660 181 5510001 Office Supplies Exp 2,991 8,450 8,687 8,930 9,180 9,437 9.701 9,973 10,252 10,539 10,834 182 5520006 Oper. Supplies-Clothing 130 134 137 141 145 149 153 158 162 167 183 5520009 Oper. Supplies-Computer 1,302 2,600 2,673 2,748 2,825 2,904 2,985 3,069 3,154 3,243 3,334 184 5520099 PC Purchases under \$1000 5,333 185 5529000 Oper. Supplies-Misc 2,034 166,650 181,044 186,113 186 5540001 Bks, Pub, Subscrp&Membrshps 104,864 153,400 157,695 162,111 171.316 176.113 191.324 196.681 20,935 187 5550001 Training and Education Costs 20,490 21,064 21,654 22.260 22,883 23,524 24,182 24,860 25,556 26,271 480 188 5999999 Invoices Pend Acct Distribution Capital Outlay 189 5520098 PC Purchases under \$5000 1,208 5,200 \$ 5,346 5,495 \$ 5,649 \$ 5,807 \$ 5,970 \$ 6,137 \$ 6,309 \$ 9,489,948 \$ 11,490,070 \$ 11,815,944 \$ 12,151,098 \$ 12,495,799 \$ 12,850,319 \$ 13,214,940 \$ 13,589,919 \$ 13,975,550 \$ 14,372,136 \$ 14,779,989 190 Total 431130 Water & Sewer Administration 431240 Technical Services Personal Services 191 5110001 Executive Salaries 76,872 \$ 100,320 \$ 103,406 106,589 \$ 109,872 \$ 113,258 \$ 116,750 \$ 120,350 \$ 124,061 \$ 127,887 \$ 131,830 1,501,240 1.856.513 1.972.771 192 5120001 Regular Salaries & Wages 1,363,180 1,547,421 1.595.051 1.644.177 1.694.845 1.747.107 1.800.979 1.913.760 193 5140001 Overtime Pay 85,864 45,000 46,384 47,812 49,285 50,803 52,370 53,985 55,649 57,365 59,134 194 5150001 One Time COLA Wage Disburse 33,180 34.201 35.253 36.339 37.459 38.614 39.805 41.032 42.297 43,602 195 5210001 FICA Taxes 110,511 119,930 123,619 127,424 131,349 135,397 139,572 143,875 148,312 152,885 157,599 196 5220001 Retirement Contributions 168,670 187,900 193,680 199,642 205,790 212,132 218,673 225,416 232,367 239,532 246,918 671,162 197 5230001 Hlth.Life.Dntl.Std.Ltd 463.051 526,490 542,686 559,390 576,618 594,388 612,716 631,610 651,086 691.858 198 5299991 Reg Salary&Wgs-Contra-Prj (44,591)199 5299992 Benefits-Contra-Projects (13,720)Operations & Maintenance 200 5349000 Contract Services-Other 63.465 43.000 44.204 \$ 45.442 \$ 46.714 \$ 48.022 \$ 49.367 50.749 \$ 52.170 53.631 55.132 13,570 13,950 14,742 16,463 16,924 201 5400001 Travel and Per Diem 13,200 14,340 15,154 15,579 16,015 202 5400100 Transportation Exp 2,041 203 5400105 Mileage-Local 40 41 42 43 44 46 47 48 50 51 39 204 5400110 Mileage-Out of Town 289 205 5400200 Meals/Per Diem 844 102 206 5400205 Meals-Taxable 207 5400300 Hotels/Motels/Lodging 4,076 208 5400900 Travel-Other 513 209 5410001 Communication Services 3,376 4,680 4,811 4,946 5,084 5,227 5,373 5,523 5,678 5,837 6,000 210 5420001 Freight 200 206 211 217 223 230 236 243 249 256 211 5420002 Postage 200 206 211 217 223 230 236 243 249 256 212 5464000 Repair&Maint-Equipment 14,303 21,000 21,588 22,192 22,814 23,453 24,109 24,784 25,478 26,192 26,925 213 5470001 Printing and Binding Exp 245 1.500 1,542 1.585 1.630 1.675 1.722 1.770 1.820 1.871 1.923 214 5490001 Othr Current Chgs&Obligat 2.000 2.056 2,114 2.173 2.234 2.296 2.360 2.427 2.494 2.564 215 5496521 Intgv Sv-Fleet-Op & Maint 97.552 100.090 102.893 105.774 108.735 111.780 114.910 118.127 121.435 124.835 128.330

3,772

5,670

5,829

5.992

6,160

6,332

6,510

6,692

6,879

7,072



216 5510001 Office Supplies Exp

7,270

Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5 FY 2032 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 Expense Line Item 217 5520005 Small Tools, Supp&Allow. 13,487 5,000 5,140 5,284 5,432 5.584 5 740 5,901 6,066 6,236 6 4 1 1 218 5520006 Oper. Supplies-Clothing 1,785 6,000 6,168 6,341 6,518 6,701 6,888 7,081 7,280 7,483 7,693 219 5520009 Oper. Supplies-Computer 99 1,817 220 5520099 PC Purchases under \$1000 221 5529000 Oper. Supplies-Misc 1,110,742 961,880 988,813 1,016,499 1,044,961 1,074,220 1,104,298 1,135,219 1,167,005 1,199,681 1,233,272 19,083 222 5550001 Training and Education Costs 5.568 15.300 15.728 16.169 16.622 17.087 17.565 18.057 18.563 19.617 Capital Outlay 223 5520098 PC Purchases under \$5000 21,447 \$ 29,910 \$ 30,747 \$ 31,608 \$ 32,493 \$ 33,403 \$ 34,339 \$ 35,300 \$ 36,288 \$ 37,305 \$ 38,349 224 5640001 Machinery And Equipment 215 225 5640300 Equip-Vehicle&Heavy Equip 63 091 175.582 180.499 185.553 190.748 196.089 201.580 226 Total 431240 Technical Services \$ 3,618,704 \$ 3,894,530 \$ 4,010,521 \$ 4,130,020 \$ 4,253,136 \$ 4,379,980 \$ 4,510,668 \$ 4,645,262 \$ 4,783,881 \$ 4.926.645 \$ 5.073.679 431250 Maintenance North & South Personal Services 227 5110001 Executive Salaries 57,600 \$ 55,980 \$ 57,702 \$ 59,478 61,310 63,199 \$ 65,148 67,157 \$ 69,228 71,363 73,563 2,769,754 2,855,161 228 5120001 Regular Salaries & Wages 2,056,360 2,453,360 2,528,831 2,606,669 2,686,950 2,943,201 3,033,956 3,127,509 3,223,947 240,537 229 5140001 Overtime Pay 260,091 213,060 219,614 226,374 233,346 247 954 255,600 263 481 271,606 279 981 230 5150001 One Time COLA Wage Disburse 13,012 61,760 63,660 65.619 67,640 69,725 71,875 74,091 76,376 78,731 81,158 231 5200001 Employee Benefits-Overtime 20,360 205,046 211,365 192,979 198,919 246,025 232 5210001 FICA Taxes 217,367 187,220 217,882 224,601 231,526 238,665 233 5220001 Retirement Contributions 245,940 305,620 315,022 324,718 334,719 345,034 355,673 366,640 377,946 389,600 401,614 234 5230001 Hlth,Life,Dntl,Std,Ltd 701,758 976,670 1,006,714 1,037,701 1,069,661 1,102,625 1,136,625 1,171,673 1,207,802 1,245,045 1,283,437 235 5299991 Reg Salary&Wgs-Contra-Pri (28,616)236 5299992 Benefits-Contra-Projects (1,497)Operations & Maintenance 237 5310033 General Consulting 20.160 \$ 20.724 \$ 21,305 \$ 21.901 22.515 \$ 23.145 \$ 23.793 \$ 24.459 25.144 \$ 25.848 \$ \$ 238 5340003 Contract Svcs-Janitorial 9,552 11,240 11,555 11,878 12,211 12,553 12,904 13,266 13,637 14,019 14,411 52,830 57,393 67,736 239 5349000 Contract Services-Other 80,808 54,309 55,830 59,000 60.652 62,350 64.096 65.891 240 5400001 Travel and Per Diem 8,820 9,067 9,321 9,582 9,850 10,126 10,409 10,701 11,001 11,309 241 5400100 Transportation Exp. 417 242 5400110 Mileage-Out of Town 241 243 5400200 Meals/Per Diem 786 244 5400205 Meals-Taxable 49 245 5400300 Hotels/Motels/Lodging 2.956 246 5400900 Travel-Other 825 8.080 8.306 8.539 8.778 9.024 9.276 9.536 9.803 10.078 10.360 247 5410001 Communication Services 5,619 248 5420001 Freight 320 370 380 391 402 413 425 437 449 461 474 249 5420002 Postage 90 210 216 222 228 235 241 248 255 262 269 250 5431100 Utl Svc-Elec-Generl-Power 34.795 40.430 41.562 42.726 43.922 45.152 46.416 47.716 49.052 50.425 51.837 251 5433000 Utl Svc-County Water&Swr 5,213 5,150 5,294 5,442 5,595 5,751 5,913 6,078 6,248 6,423 6,603 252 5439000 Utility Svc-Miscellaneous 13.798 16,660 17.126 17.606 18.099 18.606 19.127 19.662 20.213 20.779 21.361 253 5440001 Rentals and Leases 429 2,150 2,210 2,272 2,336 2,401 2,468 2,537 2,608 2,682 2,757 15,334 254 5460001 Renair&Maintenance Sycs 7,674 14 916 15,763 16,204 16,658 17,124 17,604 13.730 14.114 14.510 255 5461000 Repair&Maint-Grounds 43.249 21,800 22.410 23.038 23.683 24.346 25.028 25.729 26,449 27.190 27.951 256 5462000 Repair&Maint-Buildings 62,856 45,810 47,093 48,411 49,767 51,160 52,593 54,065 55,579 57,135 58 735 257 5463000 Repair&Maint-Wtr/Swr Line 1,075,339 700.000 719.600 739.749 760.462 781.755 803.644 826.146 849.278 873.058 897.503 258 5464000 Repair&Maint-Equipment 96,150 98,842 101,610 104,455 110,386 113,477 116,654 119,921 123,278 34,528 107,380 259 5470001 Printing and Binding Exp 357 740 761 782 804 826 850 873 898 923 949 260 5490001 Othr Current Chgs&Obligat 74 1,300 1,336 1,374 1,492 1,534 1,577 1,621 1,667 1,412 1,452 261 5490060 Incentives & Awards 54 490 504 518 532 547 563 578 594 611 628 262 5496102 Intgv Sv-Tt-Highway 5,150 263 5496521 Intgv Sv-Fleet-Op & Maint 459,107 601,840 618,692 636,015 653,823 672,130 690,950 710,297 730,185 750,630 771,648 264 5510001 Office Supplies Exp 5,597 13,630 14,012 14,404 14,807 15,222 15,648 16,086 16,537 17,000 17,476 265 5520001 Operating Supplies Exp 445 266 5520005 Small Tools, Supp&Allow 23,325 81,940 84,234 86,593 89,017 91,510 94,072 96,706 99,414 102,198 105,059 267 5520006 Oper, Supplies-Clothing 13.876 10.730 11.030 11.339 11.657 11.983 12.319 12.664 13.018 13.383 13.757 268 5520009 Oper. Supplies-Computer 412 1,010 1,038 1,067 1,097 1,128 1,160 1,192 1,225 1,260 1,295 269 5520099 PC Purchases under \$1000 1,721 270 5529000 Oper, Supplies-Misc 744,457 592.900 609.501 626.567 644.111 662.146 680.686 699.746 719.338 739.480 760.185 271 5540001 Bks, Pub, Subscrp&Membrshps 1.845 1.370 1.408 1.448 1.488 1.573 1.709 1.530 1.617 1.662 1.757 272 5550001 Training and Education Costs 15.525 13.960 14.351 14.753 15.166 15.590 16.027 16.476 16.937 17.411 17.899 273 5310033 General Consulting 1,650 1,696 1,744 1,793 1,843 1.894 1.947 2,002 2.058 2.116



Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5

Expense Line Item	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
274 5340003 Contract Svcs-Janitorial	780	920	946	972	999	1,027	1,056	1,086	1,116	1,147	1,180
275 5349000 Contract Services-Other	3,960	4,310	4,431	4,555	4,682	4,813	4,948	5,087	5,229	5,376	5,526
276 5400001 Travel and Per Diem	-	720	740	761	782	804	827	850	874	898	923
277 5400100 Transportation Exp	53	-	-	-	-	-	-	-	-	-	-
278 5400110 Mileage-Out of Town	20	-	-	-	-	-	-	-	-	-	-
279 5400200 Meals/Per Diem	64	-	-	-	-	-	-	-	-	-	-
280 5400205 Meals-Taxable	4	-	-	-	-	-	-	-	-	-	-
281 5400300 Hotels/Motels/Lodging 282 5400900 Travel-Other	241 67	-	-	-	-	-	-	-	-	-	-
283 5410001 Communication Services	482	660	678	697	717	737	758	779	801	823	846
284 5420001 Freight	26	30	31	32	33	34	34	35	36	37	38
285 5420002 Postage	7	20	21	21	22	22	23	24	24	25	26
286 5431100 Utl Svc-Elec-Generl-Power	2,840	3,300	3,392	3,487	3,585	3,685	3,789	3,895	4,004	4,116	4,231
287 5433000 Utl Svc-County Water&Swr	425	420	432	444	456	469	482	496	510	524	539
288 5439000 Utility Svc-Miscellaneous	897	1,360	1,398	1,437	1,477	1,519	1,561	1,605	1,650	1,696	1,744
289 5440001 Rentals and Leases	35	180	185	190	196	201	207	212	218	225	231
290 5460001 Repair&Maintenance Svcs	626	1,100	1,131	1,162	1,195	1,228	1,263	1,298	1,335	1,372	1,410
291 5461000 Repair&Maint-Grounds	3,533	1,780	1,830	1,881	1,934	1,988	2,044	2,101	2,160	2,220	2,282
292 5462000 Repair&Maint-Buildings	5,059	3,740	3,845	3,952 8,285	4,063	4,177	4,294	4,414	4,538	4,665 9,778	4,795 10,052
293 5464000 Repiar&Maint-Equipment 294 5470001 Printing and Binding Exp	3,547 29	7,840 50	8,060 51	53	8,517 54	8,756 56	9,001 57	9,253 59	9,512 61	9,778	10,052
295 5490001 Othr Current Chgs&Obligat	6	100	103	106	109	112	115	118	121	125	128
296 5490060 Incentives & Awards	4	40	41	42	43	45	46	47	49	50	51
297 5496521 Intgv Sv-Fleet-Op & Maint	38,079	-	-	-	-	-	-	-	-	-	-
298 5510001 Office Supplies Exp	443	1,110	1,141	1,173	1,206	1,240	1,274	1,310	1,347	1,384	1,423
299 5520005 Small Tools, Supp&Allow.	1,904	6,650	6,836	7,028	7,224	7,427	7,635	7,848	8,068	8,294	8,526
300 5520006 Oper. Supplies-Clothing	1,133	880	905	930	956	983	1,010	1,039	1,068	1,098	1,128
301 5520009 Oper. Supplies-Computer	34	80	82	85	87	89	92	94	97	100	103
302 5520099 PC Purchases under \$1000	817	-	<u>.</u>								
303 5529000 Oper. Supplies-Misc	60,435	48,400	49,755	51,148	52,580	54,053	55,566	57,122	58,722	60,366	62,056
304 5540001 Bks,Pub,Subscrp&Membrshps 305 5550001 Training and Education Costs	151 1,151	110 1,140	113 1,172	116 1,205	120 1,238	123 1,273	126 1,309	130 1,345	133 1,383	137 1,422	141 1,462
303 3330001 Hailing and Education Costs	1,131	1,140	1,172	1,205	1,236	1,273	1,309	1,343	1,303	1,422	1,402
Capital Outlay											
306 5520098 PC purchases under \$5,000			\$ 35,795		\$ 37,828			\$ 41,095			\$ 44,644
307 5640001 Machinery And Equipment	89,459 \$ 6,441,978	10,400 \$ 6,748,980	10,691 \$ 6,949,701	10,991 7,156,483	11,298 7,369,512	11,615 \$ 7,588,982	11,940 \$ 7,815,090	12,274 \$ 8,047,948	12,618 \$ 8,287,760	12,971 \$ 8,534,733	13,334 \$ 8,789,080
308 Total 431250 Maintenance North & South	\$ 6,441,978	\$ 6,746,960	\$ 6,949,701	\$ 7,156,463	\$ 7,369,512	\$ 7,566,962	\$ 7,615,090	\$ 6,047,946	\$ 6,267,760	\$ 6,534,733	\$ 6,769,060
431320 Water Supply & Transmission											
Personal Services 309 5110001 Executive Salaries	\$ 126,110	\$ 167,160	\$ 172,302	\$ 177,606	\$ 183,076	\$ 188,718	\$ 194,537	\$ 200,535	\$ 206,719	\$ 213,093	\$ 219,664
310 5120001 Executive Salaries 310 5120001 Regular Salaries & Wages	1,006,563	1,090,210	1,123,747	1,158,336	1,194,012	1,230,807	1,268,760	1,307,883	1,348,212	1,389,784	1,432,639
311 5140001 Overtime Pay	97,515	93,600	96,479	99,449	102,512	105,671	108,929	112,288	115,751	119,320	122,999
312 5150001 One Time COLA Wage Disburse	-	25,200	25,975	26,775	27,599	28,450	29,327	30,231	31,164	32,125	33,115
313 5210001 FICA Taxes	88,574	94,270	97,170	100,161	103,246	106,427	109,709	113,092	116,579	120,174	123,880
314 5220001 Retirement Contributions	134,063	147,870	152,419	157,110	161,949	166,940	172,088	177,394	182,864	188,503	194,315
315 5230001 Hlth,Life,Dntl,Std,Ltd	318,632	400,080	412,387	425,081	438,173	451,676	465,603	479,960	494,760	510,016	525,743
316 5299991 Reg Salary&Wgs-Contra-Prj	(22,705)	-	-	-	-	-	-	-	-	-	-
317 5299992 Benefits-Contra-Projects	(6,561)	-	-	-	-	-	-	-	-	-	-
Operations & Maintenance											
318 5310033 General Consulting	\$ -	\$ 20,550	\$ 21,125	\$ 21,717	\$ 22,325	\$ 22,950	\$ 23,593		\$ 24,932		
319 5340003 Contract Svcs-Janitorial	39,626	48,100	49,447	50,831	52,255	53,718	55,222	56,768	58,358	59,992	61,671
320 5349000 Contract Services-Other	172,851	216,750	222,819	229,058	235,472	242,065	248,843	255,810	262,973	270,336	277,905
321 5400001 Travel and Per Diem		2,000	2,056	2,114	2,173	2,234	2,296	2,360	2,427	2,494	2,564
322 5400100 Transportation Exp	2,987	-	-	-	-	-	-	-	-	-	-
323 5400105 Mileage-Local	19 204	-	-	-	-	-	-	-	-	-	-
324 5400110 Mileage-Out of Town 325 5400200 Meals/Per Diem	204 994	-	-	-	-	-	-	-	-	-	-
326 5400200 Meals/Per Diem 326 5400205 Meals-Taxable	16	-	-	-	-	-	-	-	-	-	-
327 5400300 Hotels/Motels/Lodging	3,853	-	-	-	-	-	-	-	-	-	-
328 5400900 Travel-Other	109	_	-	-	-	_	_	_	_	_	_
329 5410001 Communication Services	4,492	4,400	4,523	4,650	4,780	4,914	5,051	5,193	5,338	5,488	5,641
330 5420001 Freight	213	250	257	264	272	279	287	295	303	312	321



Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5

	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Expense Line Item	1 1 2022	1 1 2020	112024	1 1 2023	1 1 2020	1 1 2021	. 1 2020	. 1 2023	2000	2001	2002
331 5420002 Postage		- 20	21	21	22	22	23	24	24	25	26
332 5431100 Utl Svc-Elec-Generl-Power	837,38				1,233,034	1,267,559	1,303,051	1,339,536	1,377,044	1,415,601	1,455,238
333 5432010 Utl Svc-Municpl Wtr-Rclmd	3,27			3,170	3,259	3,350	3,444	3,541	3,640	3,742	3,846
334 5433000 Utl Svc-County Water&Swr	16,84				19,012	19,544	20,091	20,654	21,232	21,826	22,438
335 5439000 Utility Svc-Miscellaneous	40.05	- 1,700			1,847	1,899	1,952	2,006	2,063	2,120	2,180
336 5440001 Rentals and Leases 337 5461000 Repair&Maint-Grounds	12,65 86,08				4,889	5,026	5,166 126,287	5,311 129,823	5,460	5,613 137,195	5,770 141,036
337 5461000 Repair&Maint-Grounds 338 5462000 Repair&Maint-Buildings	64,40				119,501 102,445	122,847 105,314	108,262	111,294	133,458 114,410	117,613	120,907
339 5464000 Repair&Maint-Equipment	143,00				123,738	127,203	130,764	134,426	138,190	142,059	146,037
340 5470001 Printing and Binding Exp		- 50			54	56	57	59	61	62	64
341 5490001 Othr Current Chgs&Obligat	4,00				4,997	5,137	5,281	5,429	5,581	5,737	5,898
342 5496521 Intgv Sv-Fleet-Op & Maint	65,99	7 130,020	133,661	137,403	141,250	145,205	149,271	153,451	157,747	162,164	166,705
343 5510001 Office Supplies Exp	2,77				2,933	3,015	3,100	3,187	3,276	3,368	3,462
344 5520003 Oper. Supplies-Chemicals	940,73				1,520,924	1,563,509	1,607,288	1,652,292	1,698,556	1,746,115	1,795,007
345 5520005 Small Tools, Supp&Allow.	79				2,173	2,234	2,296	2,360	2,427	2,494	2,564
346 5520006 Oper. Supplies-Clothing	1,51		4,369	4,491	4,617	4,746	4,879	5,016	5,156	5,301	5,449
347 5520009 Oper. Supplies-Computer	14,97 8,63		-	-			-	-	-	-	-
348 5520099 PC Purchases under \$1000 349 5529000 Oper. Supplies-Misc	256,20		276,738	284,486	292,452	300,641	309,058	317,712	326,608	335,753	345,154
350 5540001 Bks,Pub,Subscrp&Membrshps	230,20			3,065	3,150	3,239	3,329	3,423	3,518	3,617	3,718
351 5550001 Training and Education Costs	7,11				13,580	13,960	14,351	14,753	15,166	15,590	16,027
con coccon maining and Education cocto	.,	.2,000	12,000	10,210	10,000	.0,000	. 1,00 1	,	10,100	10,000	.0,02.
Capital Outlay											
352 5520098 PC purchases under \$5,000	\$ 11,68				\$ 9,690		\$ 10,241				
353 5640001 Machinery And Equipment	13,76			5,812	5,975	6,142	6,314	6,491	6,673	6,860	7,052
354 Total 431320 Water Supply & Transmission	\$ 4,460,07	0 \$ 5,633,000	\$ 5,796,299	\$ 5,964,380	\$ 6,137,384	\$ 6,315,458	\$ 6,498,752	\$ 6,687,377	\$ 6,881,489 \$	7,081,248 \$	7,286,819
431330 Supervisory Control and Data Acquisition (SCADA)											
Personal Services											
355 5110001 Executive Salaries	\$ 54,54	3 \$ 55,680	\$ 57,393	\$ 59,159	\$ 60,981		\$ 64,799	\$ 66,797	\$ 68,857 \$		73,169
356 5120001 Regular Salaries & Wages	62,28				61,025	62,906	64,846	66,845	68,906	71,031	73,221
357 5140001 Overtime Pay	3,67				2,190	2,258	2,328	2,399	2,473	2,550	2,628
358 5150001 One Time COLA Wage Disburse		- 1,680			1,840	1,897	1,955	2,015	2,078	2,142	2,208
359 5210001 FICA Taxes	8,90				9,189	9,472	9,764	10,065	10,376	10,695	11,025
360 5220001 Retirement Contributions 361 5230001 Hlth,Life,Dntl,Std,Ltd	13,35 24,86				14,413 29,406	14,857 30,313	15,315 31,247	15,788 32,211	16,274 33,204	16,776 34,228	17,293 35,283
362 5299991 Reg Salary&Wgs-Contra-Prj	(2,12		21,070	20,320	29,400	50,515	31,247	32,211	33,204	34,220	33,203
363 5299992 Benefits-Contra-Projects	(65			-	-	-	-	-	-	-	
555 SESSONE SOMME TO SOM	(00	.,									
Operations & Maintenance											
364 5310033 General Consulting	\$ -	\$ 100,000					\$ 114,806				
365 5349000 Contract Services-Other	16,93				112,983	116,146	119,399	122,742	126,178	129,711	133,343
366 5400001 Travel and Per Diem	-	- 840	864	888	913	938	964	991	1,019	1,048	1,077
367 5400100 Transportation Exp	29			-	-	-	-	-	- 04	-	-
368 5400110 Mileage-Out of Town 369 5400200 Meals/Per Diem	4				55 125	56 129	58 132	59 136	61 140	63 144	65 148
370 5400300 Hotels/Motels/Lodging	12			122	125	129	132	130	140	144	140
370 5400300 Flotels/Moters/Lodging 371 5400900 Travel-Other		2	-	-	-	-	-	-	-	-	
372 5410001 Communication Services	10,21		9,458	9,722	9,995	10,274	10,562	10,858	11,162	11,474	11,796
373 5464000 Repair&Maint-Equipment	60,34				93,363	95,977	98,665	101,427	104,267	107,187	110,188
374 5496521 Intgv Sv-Fleet-Op & Maint	1,30				1,945	1,999	2,055	2,113	2,172	2,233	2,295
375 5510001 Office Supplies Exp	11		41	42	43	45	46	47	49	50	51
376 5520001 Operating Supplies Exp	6,70		-	-	-	-	-	-	-	-	-
377 5520005 Small Tools,Supp&Allow.	15		. <u>-</u>	-	-		-		-		
378 5520009 Oper. Supplies-Computer	11,91		247	254	261	268	276	283	291	299	308
379 5520099 PC Purchases under \$1000	38		411	400	405	- 447	450	470	- 40E	400	- E40
380 5529000 Oper. Supplies-Misc 381 5550001 Training and Education Costs	3,36 1,00				435 1,695	44 <i>7</i> 1,742	459 1,791	472 1,841	485 1,893	499 1,946	513 2,000
301 3330001 Hallilly and Education Costs	1,00	3 1,300	1,004	1,049	1,095	1,142	1,791	1,041	1,053	1,540	2,000
Capital Outlay											
382 5520098 PC purchases under \$5,000	\$ 14,34		\$ 6,168	\$ 6,341	\$ 6,518	\$ 6,701	\$ 6,888	\$ 7,081	\$ 7,280 \$	7,483 \$	7,693
383 5640001 Machinery And Equipment	4,95		- 407.000		-	-	-	-	-	-	
384 Total 431330 Supervisory Control and Data Acquisition (SCADA)) \$ 297,17	2 \$ 473,656	\$ 487,369	\$ 501,484	\$ 516,012	\$ 530,965	\$ 546,355	\$ 562,192	\$ 578,490 \$	595,261 \$	612,519



Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5 FY 2022 FY 2023 FY 2025 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 FY 2032 FY 2024 FY 2026 Expense Line Item 431335 Utilities Data Management Personal Services 385 5110001 Executive Salaries 159,390 164,293 \$ 169,350 \$ 174,566 \$ 179,946 \$ 185,494 \$ 191,214 \$ 197,110 \$ 203,188 209,454 \$ 80.684 85.735 386 5120001 Regular Salaries & Wages 73.670 75.936 78 274 83 171 88 379 91 104 93 913 96.809 387 5140001 Overtime Pay 1,546 1,594 1,643 1,855 1,971 1,500 1,693 1.746 1,799 1.912 (479) (509) (574) (494) (524)(541)(557)(592)(610)(629)(649) 388 5299992 Benefits-Contra-Projects 389 5150001 One Time COLA Wage Disburse 3,600 3,711 3,825 3,943 4,064 4,190 4,319 4,452 4,589 4,731 390 5210001 FICA Taxes 17,580 18,121 18,679 19,254 19,847 20,459 21,090 21,740 22,411 23,102 27,520 391 5220001 Retirement Contributions 28,367 29,240 30,140 31,069 32 027 33,015 34,033 35 082 36,164 392 5230001 Hlth,Life,Dntl,Std,Ltd 57.470 59.238 61,061 62,942 64,882 66,882 68,945 71,070 73,262 75,521 Operations & Maintenance 393 5310033 General Consulting \$ 599,730 \$ 616,522 \$ 633,785 \$ 651,531 \$ 669,774 \$ 688,528 \$ 707,806 \$ 727,625 747,998 768,942 394 5349000 Contract Services-Other 8,080 8.306 8,539 8,778 9.024 9.276 9.536 9.803 10.078 10.360 395 5400001 Travel and Per Diem 10.200 10.486 10.779 11.081 11.391 11.710 12.038 12.375 12.722 13.078 396 5410001 Communication Services 380 413 425 437 449 462 360 397 5510001 Office Supplies Exp 400 411 423 447 459 472 485 499 513 435 398 5520006 Operating Supplies Exp 150 154 159 163 168 172 177 182 187 192 1.130 1.162 1.228 1.262 1.297 1.334 1.371 1.409 1.449 399 5520009 Oper. Supplies-Computer 1 194 400 5529000 Oper. Supplies-Misc 1,600 1,645 1,691 1.738 1,787 1.837 1.888 1.941 1.996 2.051 401 5540001 Bks, Pub, Subscrp&Membrshps 740 761 782 804 826 850 873 898 923 949 402 5550001 Training and Education Costs 15,040 15,461 15,894 16,797 17,267 17,750 18.247 18,758 19,284 **Capital Outlay** 403 5640001 Machinery And Equipment 9 650 \$ 9.920 \$ 10,198 \$ 10,484 \$ 10,777 \$ 11,079 \$ 11.389 \$ 11.708 \$ 404 Total 431335 Utilities Data Management 987,316 \$ 1,015,901 \$ 1,045,321 \$ 1,075,602 \$ 1,106,769 \$ 1,138,847 \$ 1,171,858 \$ 1,205,827 \$ 1,240,783 \$ 1,276,755 431340 Water Quality - Laboratory **Personal Services** 54,733 \$ 56,418 405 5110001 Executive Salaries 58,156 \$ 59,948 \$ 69,778 52,120 \$ 53,100 \$ 61.796 \$ 63,702 \$ 65,666 \$ 67.691 406 5120001 Regular Salaries & Wages 199,907 207,340 213,718 220.297 227.081 234.079 241.297 248.738 256.408 264.314 272.464 407 5140001 Overtime Pay 5,553 4,500 4.638 4,781 4.928 5.080 5.237 5.398 5,565 5.737 5.913 408 5150001 One Time COLA Wage Disburse 4,660 4,803 4,951 5,104 5,261 5,423 5,590 5,763 5,941 6,124 18,945 19,570 20,172 20,793 24.948 409 5210001 FICA Taxes 21,433 22.094 22,775 23,477 24,201 25,717 410 5220001 Retirement Contributions 32,166 34,070 35,118 36,199 37,314 38,464 39,650 40,872 42,133 43,432 44,771 72,920 79,863 82.324 84,863 90,177 92,957 95,824 411 5230001 Hlth,Life,Dntl,Std,Ltd 67,626 75,163 77,477 87,479 412 5299991 Reg Salary&Wgs-Contra-Pri (1,522)413 5299992 Benefits-Contra-Projects (523)Operations & Maintenance 414 5310033 General Consulting 150 \$ 154 159 \$ 163 \$ 168 \$ 172 \$ 177 \$ 182 187 192 \$ \$ 415 5340003 Contract Svcs-Janitorial 1,310 987 1,015 1.043 1,072 1,102 1,133 1,165 1.197 1.231 416 5349000 Contract Services-Other 5,292 16,820 17.291 17,775 18,273 18,784 19,310 19,851 20,407 20,978 21.566 417 5400001 Travel and Per Diem 1,440 1,480 1,522 1,564 1,608 1,653 1,700 1,747 1,796 1,846 418 5400100 Transportation Exp 357 419 5400105 Mileage-Local 14 52 420 5400110 Mileage-Out of Town 421 5400200 Meals/Per Diem 298 722 422 5400300 Hotels/Motels/Lodging 423 5400900 Travel-Other 27 424 5410001 Communication Services 52 150 154 159 163 168 172 177 182 187 192 425 5420001 Freight 60 62 63 65 67 69 71 73 75 77 426 5420002 Postage 27 10 10 11 11 11 11 12 12 12 13 427 5431100 Utl Svc-Elec-Generl-Power 26.043 35.890 36.895 37.928 38.990 40.082 41.204 42.358 43.544 44.763 46.016 428 5433000 Utl Svc-County Water&Swr 340 360 370 380 391 402 413 425 437 449 462 429 5440001 Rentals and Leases 7,943 1,110 1,173 1,274 1,310 1,347 1,384 1,423 1.141 1.206 1.240 430 5462000 Repair&Maint-Buildings 1,187 1.980 2.035 2.092 2.211 2.273 2.337 2.402 2.470 2.539 2.151 431 5464000 Repair&Maint-Equipment 29,730 30,562 31,418 34,132 35,088 36,070 37,080 38,118 29,876 32,298 33,202 432 5470001 Printing and Binding Exp 10 10 11 11 11 11 12 12 12 13 75 77 433 5480001 Promotional Activities Exp 60 62 63 65 67 69 71 73 434 5490001 Othr Current Chgs&Obligat 504 2,500 2,570 2,642 2,716 2,792 2,870 2,951 3,033 3,118 3,205 435 5490060 Incentives & Awards 50 51 53 54 56 57 59 61 62 64 436 5496521 Intgv Sv-Fleet-Op & Maint 1,200 1,840 1,892 1,944 1,999 2,055 2,112 2,172 2,232 2,295 2,359 760 803 974

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437 5510001 Office Supplies Exp

Appendix A – Water Fund Revenue Sufficiency Analysis

Projection of Cash Outflows Schedule 5 FY 2022 FY 2032 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 **Expense Line Item** 438 5520098 PC Purchases under \$5000 335 4,050 4,163 4,280 4,400 4,523 4,650 4,780 4,914 5,051 5,193 439 5520099 PC Purchases under \$1000 258 440 5529000 Oper. Supplies-Misc 42 346 43.540 44.759 46,012 47,301 48,625 49,987 51.386 52,825 54.304 55.825 133 130 134 141 149 153 158 162 167 441 5540001 Bks.Pub.Subscrp&Membrshps 137 145 442 5550001 Training and Education Costs 1,630 1,070 1,100 1,162 1,195 1,298 1,335 1,131 1,228 1,263 1,372 **Capital Outlay** 443 5640001 Machinery And Equipment 70,000 71.960 \$ 73,975 \$ 76,046 \$ 78,175 \$ 80.364 \$ 82.615 \$ 84.928 444 Total 431340 Water Quality - Laboratory 494,582 608,830 626,971 \$ 645,662 \$ 664,919 \$ 684,758 \$ 705,200 \$ 726,253 \$ 431350 Water Quality - Monitoring **Personal Services** 445 5110001 Executive Salaries 278.268 \$ 266.360 \$ 274.554 \$ 283,005 \$ 291.721 \$ 300.711 \$ 309.983 \$ 319.542 \$ 329.395 \$ 339.552 350.022 446 5120001 Regular Salaries & Wages 554,083 616,660 635,630 655,195 675,374 696,187 717,654 739,783 762,595 786,110 810,350 25.873 31.900 32.881 33.893 34.937 37.124 38.269 39,449 40.666 41.920 447 5140001 Overtime Pay 36 014 448 5150001 One Time COLA Wage Disburse 16,450 16,956 17,478 18,016 18,571 19,144 19,734 20,343 20,970 21,617 449 5210001 FICA Taxes 62,975 66,330 68,370 70,475 72,645 74,884 77.193 79,574 82,027 84.557 87.164 450 5220001 Retirement Contributions 111,858 115,301 118,852 122,515 126,293 130,187 138.340 98,340 108,520 134,202 142 606 308,808 328,146 451 5230001 Hlth, Life, Dntl, Std, Ltd 235,360 265,350 273,513 281,932 290,615 299,570 318,330 338,264 348,695 452 5299989 Rg Sal&Wges-Cntra-Prj-Bur (363)453 5299991 Reg Salary&Wgs-Contra-Pri (28, 435)454 5299992 Benefits-Contra-Projects (12, 120)Operations & Maintenance 455 5310033 General Consulting 416,400 428,059 440,045 452,366 465,032 \$ 478,053 491,439 505,199 519,345 533,886 456 5340003 Contract Svcs-Janitorial 4.431 4.400 4.523 4 650 4 780 4 914 5 051 5 193 5.338 5.488 5 641 457 5349000 Contract Services-Other 22,564 50,790 52,212 53,674 55,177 56,722 58,310 59,943 61,621 63,347 65,120 458 5399989 Op Exp-Contra-Proi-Burdng (869) 15,746 459 5400001 Travel and Per Diem 14,900 15,317 16,187 16,640 17,106 17,585 18,077 18,584 19,104 460 5400100 Transportation Exp 2,004 461 5400105 Mileage-Local 56 462 5400110 Mileage-Out of Town 409 463 5400200 Meals/Per Diem 2,518 464 5400300 Hotels/Motels/Lodging 6,677 465 5400900 Travel-Other 303 2,170 2.231 2,293 466 5410001 Communication Services 2.357 2.423 2.491 2.561 2.633 2.706 2.782 1,985 467 5420001 Freight 86 700 720 740 760 782 804 826 849 873 898 1.226 1.332 1,407 468 5420002 Postage 443 1,160 1.192 1.260 1.295 1.369 1,447 1.487 469 5440001 Rentals and Leases 1,615 2,090 2,149 2,209 2,271 2,334 2,399 2,467 2,536 2,607 2,680 470 5460001 Repair&Maintenance Svcs 14,923 471 5461000 Repair&Maint-Grounds 2.315 15.080 15.502 15.936 16.383 16.841 17.313 17.798 18.296 18.808 19.335 472 5462000 Repair&Maint-Buildings 21,951 10,030 10,311 10,600 10,896 11,201 11,515 11,837 12,169 12,510 12,860 473 5464000 Repair&Maint-Equipment 339 55,170 56.715 58.303 59.935 61.613 63.339 65.112 66.935 68.809 70.736 474 5470001 Printing and Binding Exp 580 596 613 630 648 666 685 704 723 744 475 5480001 Promotional Activities Exp 9,927 810 833 856 880 905 930 956 983 1,010 1,039 476 5490001 Othr Current Chas&Obligat 290 298 306 315 324 333 342 352 362 372 477 5490060 Incentives & Awards 170 175 180 190 206 212 185 195 201 218 478 5496521 Intgv Sv-Fleet-Op & Maint 37.053 58,700 60.344 62.033 63.770 65.556 67.391 69.278 71.218 73.212 75.262 479 5510001 Office Supplies Exp 1,740 1,789 1,890 1,943 1 998 2 054 2,111 2,170 2,231 1.507 1,839 480 5520005 Small Tools, Supp&Allow 2,323 2,388 1,121 2,080 2,138 2,198 2,260 2,455 2,524 2,594 2,667 481 5520006 Oper. Supplies-Clothing 2,208 3,770 3,876 3,984 4,096 4,328 4 449 4,574 4,702 4,834 4.210 482 5520009 Oper. Supplies-Computer 955 1,450 1,491 1,532 1,575 1,619 1,665 1,711 1,759 1,808 1,859 6,477 483 5520098 PC purchases under \$5,000 19 396 5,800 5,962 6,129 6,301 6,659 6,845 7,037 7,234 7,436 484 5520099 PC Purchases under \$1000 3,025 59,462 485 5529000 Oper. Supplies-Misc 34,982 49,010 50,382 51,793 53,243 54,734 56,267 57,842 61,127 62,838 486 5540001 Bks.Pub.Subscrp&Membrshps 127 150 154 159 163 168 172 177 182 187 192 487 5550000 Training 990 1,015 1,040 1,066 1,093 1,120 1,148 1,177 1,206 1,236 488 5550001 Training and Education Costs 4.116 6.130 6.302 6.478 6.659 6.846 7.038 7.235 7.437 7.645 7.860 **Capital Outlay** 489 5640001 Machinery And Equipment \$ 50.000 \$ 51.400 \$ 52.839 \$ 54.319 \$ 55.840 \$ 57.403 \$ 59.010 \$ 60.663 62.361 64.107 293,600 301,821 310.272 318.959 327.890 337.071 346,509 356.211 490 5640300 Equip-Vehicle&Heavy Equip

\$ 1,410,206 \$ 2,419,730 \$ 2,491,268 \$ 2,564,951 \$ 2,640,845 \$ 2,719,017 \$ 2,799,537 \$ 2,882,446 \$



491 Total 431350 Water Quality - Monitoring

2.967.817 \$ 3.055.721 \$ 3.146.236

rojection of Cash Outflows												chedule
Expense Line Item		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
·												
431370 Water & Sewer Code Enforcement												
Personal Services	•	05.400										
2 5120001 Regular Salaries & Wages	\$		\$ 123,570			\$ 135,335		\$ 143,808				
3 5140001 Overtime Pay		2,104	4,980	5,133	5,291	5,454	5,622	5,796	5,974	6,159	6,348	6,54
4 5150001 One Time COLA Wage Disburse		F 000	3,000	3,092	3,187	3,286	3,387	3,491	3,599	3,710	3,824	3,94
5 5210001 FICA Taxes		5,026	9,240	9,524	9,817	10,120	10,432	10,753	11,085	11,427	11,779	12,14
6 5220001 Retirement Contributions		7,403	14,470	14,915	15,374	15,848	16,336	16,840	17,359	17,894	18,446	19,01
7 5230001 Hlth,Life,Dntl,Std,Ltd		24,459	47,270	48,724	50,224	51,771	53,366	55,012	56,708	58,457	60,259	62,11
8 5299991 Reg Salaries&Wages-Projects		(689)	-	-	-	-	-	-	-	-	-	
9 5299992 Benefits-Contra-Projects		(261)	-	-	-	-	-	-	-	-	-	
Operations & Maintenance												
5349000 Contract Services-Other	\$	4,730	\$ 21,270	\$ 21,866			\$ 23,754		\$ 25,103		\$ 26,528 \$	
1 5400001 Travel and Per Diem		-	4,100	4,215	4,333	4,454	4,579	4,707	4,839	4,974	5,114	5,25
2 5410001 Communication Services		801	830	853	877	902	927	953	980	1,007	1,035	1,00
3 5420001 Freight		-	20	21	21	22	22	23	24	24	25	:
1 5420002 Postage		534	1,120	1,151	1,184	1,217	1,251	1,286	1,322	1,359	1,397	1,43
5 5470001 Printing and Binding Exp		219	1,330	1,367	1,406	1,445	1,485	1,527	1,570	1,614	1,659	1,70
5 5480001 Promotional Activities Exp		34	4,980	5,119	5,263	5,410	5,562	5,717	5,877	6,042	6,211	6,38
7 5496521 Intgv Sv-Fleet-Op & Maint		3,970	9,780	10,054	10,335	10,625	10,922	11,228	11,542	11,866	12,198	12,5
5510001 Office Supplies Exp		73	250	257	264	272	279	287	295	303	312	33
5520001 Oper. Supplies-Exp		-	330	338	347	355	364	373	383	392	402	4
5520006 Oper. Supplies-Clothing		90	250	257	264	272	279	287	295	303	312	33
5520098 PC Purchases under \$5000		708	2,780	2,858	2,938	3,020	3,105	3,192	3,281	3,373	3,467	3,50
2 5520099 PC Purchases under \$1000		115	-	-	-	-	-	-	-	-	-	
3 5529000 Oper. Supplies-Misc		835	830	853	877	902	927	953	980	1,007	1,035	1,06
5540001 Bks,Pub,Subscrp&Membrshps		(155)	-	-		-	-	-	-	-	-	
5 5550001 Training and Education Costs		1,689	3,870	3,978	4,090	4,204	4,322	4,443	4,567	4,695	4,827	4,96
Capital Outlay												
6 5640300 Equip-Vehicle&Heavy Equip	\$	-	\$ 98,700	\$ 101,464	\$ 104,305	\$ 107,225	\$ 110,227	\$ 113,314	\$ 116,487	\$ 119,748	\$ 123,101	\$ 126,54
Total 431370 Water & Sewer Code Enforcement	\$	116,867	\$ 352,970	\$ 363,412	\$ 374,167	\$ 385,244	\$ 396,655	\$ 408,409	\$ 420,511	\$ 432,973	445,805	\$ 459,01
431415 Land, Forestry and Wildlife												
Operations & Maintenance												
5310033 General Consulting	\$	2,909	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - :	\$ -	\$ - 9	\$ - 9	\$ -
9 5349000 Contract Services-Other		695,265	975,000	1,002,300	1,030,364	1,059,215	1,088,873	1,119,361	1,150,703	1,182,923	1,216,045	1,250,09
5400900 Travel-Other		50		-	-	-	-	-	-	-	-	
5410001 Communication Services		1,693	2,000	2,056	2,114	2,173	2,234	2,296	2,360	2,427	2,494	2,50
5420001 Freight		8	50	51	53	54	56	57	59	61	62	
3 5431100 Utl Svc-Elec-Generl-Power		7,932	16,000	16,448	16,909	17,382	17,869	18,369	18,883	19,412	19,956	20,5
5440001 Rentals and Leases	•	6,840	7,000	7,196	7,397	7,605	7,818	8,036	8,261	8,493	8,731	8,9
5 5461000 Repair&Maint-Grounds		5,800	1,000	1,028	1,057	1,086	1,117	1,148	1,180	1,213	1,247	1,2
5 5462000 Repair&Maint-Buildings		-	30,000	30,840	31,704	32,591	33,504	34,442	35,406	36,398	37,417	38,4
7 5464000 Repair&Maint-Equipment		21,077	5,000	5,140	5,284	5,432	5,584	5,740	5,901	6,066	6,236	6,4
3 5490001 Othr Current Chgs&Obligat		297,023	60,650	62,348	64,094	65,889	67,733	69,630	71,580	73,584	75,644	77,70
9 5490012 Commissions-Cross Bar		7,170	25,000	25,700	26,420	27,159	27,920	28,702	29,505	30,331	31,181	32,0
5496521 Intgv Sv-Fleet-Op & Maint		888	1,350	1,388	1,427	1,467	1,508	1,550	1,593	1,638	1,684	1,7
5520003 Oper. Supplies-Chemicals		-	200	206	211	217	223	230	236	243	249	25
5529000 Oper. Supplies-Misc		-	1,000	1,028	1,057	1,086	1,117	1,148	1,180	1,213	1,247	1,28
Total 431415 Land, Forestry and Wildlife	\$	1,046,654	\$ 1,124,250	\$ 1,155,729	\$ 1,188,089	\$ 1,221,356	\$ 1,255,554	\$ 1,290,709	\$ 1,326,849	\$ 1,364,001	1,402,193	\$ 1,441,4
894031 Emergency Events-Water Personal Services												
	\$	176,396	s -	\$ -	\$ -	\$ -	\$ -	S -	\$ -	s - s	B - 9	\$ -
		110,000	¥ -	÷ -	→ -	· -	· -	÷ - '	-	· ·		· -
5299991 Reg Salary&Wgs-Contra-Prj	φ	60,023	-	-	-	-	-	-	-	-	-	
5299991 Reg Salary&Wgs-Contra-Prj 5 5299992 Benefits-Contra-Projects	Ψ	60,023	-	-	-	-	-	-	-	-	-	
4 5299991 Reg Salary&Wgs-Contra-Prj 5 5299992 Benefits-Contra-Projects Operations & Maintenance		•	-	-	-	-	- ¢	-	-	-	-	¢
4 5299991 Reg Salary&Wgs-Contra-Prj 5 5299992 Benefits-Contra-Projects	\$	·	\$ -	\$ -	\$ -	\$ -	\$ -	- \$ - :	- \$ -	- \$ - :	- \$ - \$	\$ -



Projection of Cash Outflows											Schedule 5
Expense Line Item	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
433110 Tampa Bay Water (TBW)											
540 Operations & Maintenance											
541 5434000 Utl Svc-Regional Water ¹	\$ 42.637.167	\$ 44.726.462	\$ 45,436,467	\$ 45.760.011	\$ 46.669.313	\$ 47.398.437	\$ 45.633.123	\$ 51.473.864	\$ 53.124.116	\$ 54.827.275	\$ 56.740.065
Total 433110 Tampa Bay Water (TBW)			\$ 45,436,467								
Other Operating Expenses											
543 Incremental AMI Expense Impacts	\$ -	\$ 239,601	\$ 238,399	\$ 191,522	\$ 190,777	\$ 140,648	\$ 140,432	\$ 86,819	\$ 87,211	\$ 536,897	\$ 537,984
Total Other Operating Expenses	\$ -	\$ 239,601	\$ 238,399	\$ 191,522	\$ 190,777	\$ 140,648	\$ 140,432	\$ 86,819	\$ 87,211	\$ 536,897	
Total Expenses by Category											
545 Personal Services	\$ 15,864,899	\$ 17,464,108	\$ 18,002,023	\$ 18,556,850	\$ 19,129,133	\$ 19,719,433	\$ 20,328,332	\$ 20,956,031	\$ 21,603,111	\$ 22,270,172	\$ 22,957,829
546 Variable Operations & Maintenance	42,637,167	44,726,462	45,436,467	45,760,011	46,669,313	47,398,437	45,633,123	51,473,864	53,124,116	54,827,275	56,740,065
547 Operations & Maintenance	19,152,545	23,546,949	24,176,698	24,824,080	25,489,589	26,173,731	26,877,029	27,600,020	28,343,254	29,614,329	30,399,767
548 Capital Outlay	513,071	1,147,585		1,214,699	1,274,063	1,285,783	1,349,207	1,361,076	1,428,845	1,440,830	1,513,252
549 Total Expenses	\$ 78,167,681	\$ 86,885,104	\$ 88,818,346	\$ 90,355,640	\$ 92,562,098	\$ 94,577,385	\$ 94,187,691	\$101,390,991	\$ 104,499,327	\$ 108,152,605	\$ 111,610,913
Expense Execution Factors											
550 Personal Services	100%	95%		95%	95%	95%	95%	95%	95%		
551 Variable Operations & Maintenance	100%			100%	100%	100%	100%	100%	100%		
552 Other O&M	100%	100%		100%	100%	100%	100%	100%	100%		
Operating Minor Capital Outlay	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total Expenses at Execution											
554 Personal Services	\$ 15,864,899	\$ 16,590,903	\$ 17,101,922	\$ 17,629,008	\$ 18,172,676	\$ 18,733,462	\$ 19,311,915	\$ 19,908,229	\$ 20,522,956	\$ 21,156,663	\$ 21,809,937
555 Variable Operations & Maintenance	42,637,167	44,726,462	45,436,467	45,760,011	46,669,313	47,398,437	45,633,123	51,473,864	53,124,116	54,827,275	56,740,065
556 Operations & Maintenance	19,152,545	23,546,949	24,176,698	24,824,080	25,489,589	26,173,731	26,877,029	27,600,020	28,343,254	29,614,329	30,399,767
557 Capital Outlay	513.071	1.147.585	1,203,158	1.214.699	1,274,063	1.285.783	1,349,207	1.361.076	1.428.845	1.440.830	1,513,252
558 Total Expenses at Execution			\$ 87,918,245			\$ 93,591,413					
Transfers Out											
559 Trans To Water R&R ²	\$ 22,407,770	\$ 16,955,810	\$ -	\$ -	\$ 17,824,704	\$ 25,509,924	\$ 27.405.113	\$ 19.777.668	\$ 24.664.491	\$ 26,418,686	\$ 29.334.897
560 Total Transfers Out		\$ 16,955,810		\$ -		\$ 25,509,924					
Debt Service											
561 New Debt Service	_				733,990	1.463.985	2,294,529	3.600.219	4,807,446	5,929,279	6,941,722
562 Total Debt Service	\$ -	\$ -	\$ -	\$ -	\$ 733,990		\$ 2,294,529	\$ 3,600,219	\$ 4,807,446		
563 Total Cash Outflows	\$100 575 451	\$ 102 967 709	\$ 87,918,245	\$ 89 427 798	\$ 110 164 336	\$ 120 565 322	\$ 122 870 916	\$ 123 721 076	\$ 132 891 100	\$ 139 387 062	\$ 146 739 640
10th Subil Outilows	ψ 100,373,431	₩ 102,501,103	¥ 01,310,243	¥ 00,7£1,130	♥ 1 10, 10 -1 ,000	ψ 120,000,022	¥ 122,010,010	₩ 120,121,010	¥ 102,031,103	ψ 100,001,00Z	¥ 170,100,040

¹ Tampa Bay Water (TBW) expense estimates are based on projections of annual demand and the Tampa Bay Water rate.



² FY 2022 and FY 2023 Renewal & Replacement Contributions are based on FY 2022 Actuals and FY 2023 Budget Request, respectively, as provided by County staff. Each year thereafter, the Renewal & Replacement Contribution is calculated based on the funding requirements of the Capital Improvement Plan less any available bond proceeds and any excess fund balance in the R&R Fund above the minimum requirement.

pital Improvement Program (CIP)												<u>აc</u>	hedule 6
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	T/	otal Cost
<u>Projects</u>													
000700B - Westwinds Dr. Bridge Replacement - Utility Relocations: Main	\$ 57,000 \$	-	\$ -	\$ -	\$ - 9	-	\$ - :	-	\$	- \$	- \$	- \$	57,000
000702B - Crosswinds Dr. Bridge Replacement - Utility	58.000											\$	58,000
Relocations: Main 000744A - Facility Miscellaneous Improvements: Main	560,000	1,025,000	100,000	100,000	100,000	100,000	100,000				_	- \$	2,085,00
000791A - FDOT Relocation Projects Miscellaneous: Main	10,000	10,000	10,000	10,000	10,000	10,000	10,000				_	- \$	70,000
000791A - FDOT Relocation Projects Miscellaneous: Main	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-	-		-	- \$	70,00
000791A - FDOT Relocation Projects Miscellaneous: Main	25,000	25,000	25,000	25,000	25,000	25,000	25,000	-	-		-	- \$	175,00
000791A - FDOT Relocation Projects Miscellaneous: Main	25,000 55,000	25,000 55,000		25,000 55,000	25,000 55,000		25,000 55,000	-	-		-	- s	385,00
000791A - PDOT Relocation Projects Miscellaneous, Main 000791B - Utility Upgrades 19/Seminole Blvd. from S. of 53rd Av. to S. of 102nd Av.: Main		55,000	55,000	55,000	55,000	55,000	55,000	-	-		-	\$	18,00
000791C - Utility Upgrades SR 595 (Alt. US 19/Seminole	100,000											\$	100,0
Blvd.) Fr. N. of 101st Av. N. to East Bay: Main 000831A - Water, Sewer and Reclaimed Water Relocation Projects: Main	400,000	400,000	400,000	400,000	400,000	400,000	400,000					\$	2,800,0
000971B - Sands Pt Dr/13th St Bridge Water Main utility	-	135,000	100,000	100,000	100,000	100,000	100,000					\$	135,00
relocation: Main 001023B - 131st St and 86th Ave Water Main Relocation:		133,000	-	-	-			-	-		-		407.00
Main 001035B - Oakwood Dr. Bridge Replacement Utility	197,000	-	-	-	-	-		-	-		-	- \$ \$	197,00 165,00
Relocations: Main	59,000	106,000	-	-	-	· ·		-	-		-	- P	100,00
001057A - General Upgrades to Supervisory Control and Data Acquisition (SCADA): Main	18,000	10,000	56,000	-	-	15,000			-		-	- \$	99,00
001177D - Lakeshore Estates Road and Drainage Improvements Phase II Utilities Relocations: Main	111,000	-	_	_		-	_	_	-		-	_ \$	111,00
001253A - Water ImpFee 4036 Reserves: Main	677,670	-	-	-		-	-	-	-		-	- \$	677,67
001283A - Replanting of Pine Seedlings @ Cross Bar Ranch Main	150,000	50,000	50,000	50,000	50,000	50,000	50,000	-	-		-	_ \$	450,00
001333B - North Highland Avenue Water and Sewer Improvements Phase I: Main	90,000	-	-				-	-	-		-	_ \$	90,00
001333B - North Highland Avenue Water and Sewer Improvements Phase I: Main	-	39,000	-				-	-	-		-	_ \$	39,0
001522A - FDOT US 19 Main to Northside: Main	115,000	-	-	-		-	-	-	-		-	- \$	115,0
001522A - FDOT US 19 Main to Northside: Main	70,000	-	-	2			-	-	-		-	- \$	70,00
001522A - FDOT US 19 Main to Northside: Main	10,395,062	-	-	1,015,000	-		-	-	-		-	- \$	11,410,06
001522A - FDOT US 19 Main to Northside: Main		_		1,015,000				-	-		-	- \$	1,015,0
001523A - FDOT US19 Northside to CR95: Main	115,000	_		-		_	-	_	-		-	- \$	115,0
001523A - FDOT US19 Northside to CR95: Main	70,000	_				_	-	_	-		-	- \$	70,0
001523A - FDOT US19 Northside to CR95: Main	9,717,353			847,000								- \$	10,564,3
001523A - FDOT US19 Northside to CR95: Main	-	_		847,000		_	_	_	_		_	- \$	847,0
001525A - Future Supply & Treatment Projects: Main	_	_	400,000	400,000	400,000	400,000	400,000	_	_		_	- \$	2,000,0
	-	-						-	-		-		25,000,0
001525A - Future Supply & Treatment Projects: Main	-	·	1,600,000	9,600,000	6,600,000	5,600,000	1,600,000	-	-		-	- \$	
001528A - Future Relocations and System Upgrades: Main	-	•		200,000	200,000	200,000	200,000	-	-		-	- \$	800,0
001528A - Future Relocations and System Upgrades: Main 001601A - Advanced Metering Infrastructure (AMI) Water	-			1,800,000	1,800,000	2,800,000	2,800,000	-	-		-	- \$ \$	9,200,0 70,500,6
Meter Replacement: Main 001638B - Granger Dr Water Line Relocations: Main	9,677,600	13,187,000	19,055,000	18,937,000	9,644,000	-	-	-	-		-	-	
001817B - Crystal Beach Water, Sewer and Reclaim Water	180,000			-	-	-	-	-	-		-	- \$ S	180,0 154,0
Relocations Along Grace St., Seafford Ave., Disston St.: Maii 002063B - Starkey Road Utility Relocation from Flame Vine	n 134,000	20,000	-	-	-	-	-	-	-		-	- '	
Ave to Bryan Dairy Road: Main 002063B - Starkey Road Utility Relocation from Flame Vine	35,000	35,000	35,000	-	-	-	-	-	-		-	- \$	105,0
Ave to Bryan Dairy Road: Main 002086B - Huston Lane / Pinecrest Dr. Water Line	3,000,000	3,000,000	3,375,000	-	-	-	-	-	-		-	- \$	9,375,0
Relocation: Main 002109B - Whitney Rd- Wolford Rd Intersection Water Imp:	75,000	-	-	-	-	-	-	-	-		-	- \$	75,0
Main	250,000	250,000	-	-	-	-	-	-	-		-	- \$	500,00
002149A - Logan Laboratory Improvements: Main	438,000	124,000	-	-	-	-	-	-	-		-	- \$	562,00
002149A - Logan Laboratory Improvements: Main	-	-	1,513,820	-	-	-	-	-		-	-	- \$	1,513,82
002149A - Logan Laboratory Improvements: Main	269,000	-	3,606,720	2,523,000	-	-	-	-	-		-	- \$	6,398,72
002150A - Gulf Beach Pump Station Upgrades: Main	500,000	250,000	-	-	-	-	-	-	-		-	- \$	750,0
002150A - Gulf Beach Pump Station Upgrades: Main 002232B - Indian Rocks Road Sidewalk Improvements Phase	-	-	2,500,000	4,000,000	-	-	-	-	-		-	- \$	6,500,0
2B From Church Creek to 8th Avenue SW - Utilities Relo:	60,000										_	\$	60,0
Main		-	-	-	-	-	-	-	-		-		404.0
002627A - FDOT- Gateway Projects Utility Relocation: Main	161,000	-	-	-	-	-	-	-	-		-	- \$	161,0
003562A - Myrtle Ave Water Main Replacement: Main 003678B - Macona Blvd bridge over Pine Key Water Main	148,000	310,000 140.000	-	-	-	-	-	-	-		-	- \$ \$	458,0 140,0
utility relocation: Main	-	140,000	-	-	-	-	-	-	-		-	- s	662.0
003748A - Gulf Blvd. Relocations @ the Narrows: Main	662,000	-		-	-	-	-	-	-		-	- S	,
003763A - Utilities Facilities Security: Main	25,000	23,000	29,000	50,000	50,000	50,000	50,000	-	-		-	- D	277,00



	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Total Cost
003763A - Utilities Facilities Security: Main	25,000	23,000	29,000	50,000	50,000	50,000	50,000	-	-	-	-	\$ 277,0
003764A - Water Ground Storage Tank Rehabilitation: Main	5,000			-	-	-	-	-	_	_	-	\$ 5,0
003764A - Water Ground Storage Tank Rehabilitation: Main	5,000	-	-	-	-	-	-	-	-	-	-	\$ 5,0
003764A - Water Ground Storage Tank Rehabilitation: Main	80,000	-	-	-	-	-	-	-	-	-	-	\$ 80,0
003764A - Water Ground Storage Tank Rehabilitation: Main	80,000	-	-	-	-	-	-	-	-	-	-	\$ 80,0
003765A - Programmable Logic Controller Upgrades: Main	-	208,000	79,000	-	-	-	-	-	-	-	-	\$ 287,0
003767A - Water Facilities Annual Improvements: Main	10,000	10,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-	\$ 70,0
003767A - Water Facilities Annual Improvements: Main	90,000	90,000	90,000	90,000	90,000	90,000	90,000	-	-	-	-	\$ 630.0
003768A - Wholesale Meter Rehabilitation: Main	40,000	10,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-	\$ 100,0
003768A - Wholesale Meter Rehabilitation: Main	463,000	250,000	250,000	250,000	250,000	250,000	250,000	-	-	-	-	\$ 1,963,0
003896B - Crystal Beach Utility Relocation and Replacement Associated with Drainage and Roadway Improvements: Main	-	50,000	-	-	-	-		-	-	-	-	\$ 50,
003896B - Crystal Beach Utility Relocation and Replacement Associated with Drainage and Roadway Improvements: Main	_	125,000	375,000	-	_	_		_	_	_	-	\$ 500,
004071A - Rosery Road Phase I Water Main Relocation												\$ 1,320,0
from Pinellas Trail to Missouri Avenue: Main	1,320,000	-	-	-	-	-		-	-	-	-	
004090B - Cycle Springs Water Main Pipe Relocation: Main 004229C - Utility Work - Starkey Rd Corridor sidewalk from	110,000	-	-	-	-			-	-	-	-	\$ 110,0
UM229C - Utility Work - Starkey Rd Corndor sidewalk from Ulmerton Rd to East Bay Dr: Main 004353A - Replacement of the 10 Inch Water Main	-	100,000	-	-		-			-	-	-	\$ 100,
Subaqueous Crossing along 27th Ave and N. Tessier Drive: Main	200,000	-	-	-		<u></u>			-	-	-	\$ 200,
004355A - S. K. Keller Polyphosphate Building Process Upgrades: Main	200,000	40,000	-	-			-	-	-	-	-	\$ 240,
004355A - S. K. Keller Polyphosphate Building Process Upgrades: Main	700,000	1,520,000	-	-			-	-	-	-	-	\$ 2,220,
004356A - North Water Booster Station Variable Frequency Drive Modifications: Main	-	100,000	100,000				-	-	-	-	-	\$ 200,
004356A - North Water Booster Station Variable Frequency Drive Modifications: Main	639,000	2,800,000	500,000				-	-	-	-	-	\$ 3,939,
004572A - Marlin Drive Utility Relocation for City of Belleair Bluffs Roadway Improvements: Main	-	5,000					-	-	-	-	-	\$ 5,0
004572A - Marlin Drive Utility Relocation for City of Belleair Bluffs Roadway Improvements: Main	146,000	155,000				-	-	-	-	-	-	\$ 301,
004573A - Pass A Grille Way and Gulf Way from 9th Ave. to 22nd Ave Water Improvement Project: Main	-	60,000		-		-	-	-	-	-	-	\$ 60,
004573A - Pass A Grille Way and Gulf Way from 9th Ave. to 22nd Ave Water Improvement Project: Main 004574A - FDOT Utility Relocation US 19 From CR 95 to	200,000	2,240,000			-	-	-	-	-	-	-	\$ 2,440,
Pine: Main 004574A - FDOT Utility Relocation US 19 From CR 95 to	22,500	22,000	11,000	8,000	-	-	-	-	-	-	-	\$ 63,
Pine: Main 004575A - FDOT Utility Relocation US 19 from Nebraska Av	-	·		1,000,000	3,500,000	2,500,000	-	-	-	1,000,000	-	\$ 8,000, \$ 22,
to Timberlane Rd 433797-1: Main 004575A - FDOT Utility Relocation US 19 from Nebraska Av	22,500			-	-	-	-	-	-	-	-	\$ 4,875,
to Timberlane Rd 433797-1: Main 004576A - FDOT Utility Relocation US 19 from Timberlane	- `			-	-	-	-	-	2,625,000	2,250,000	-	\$ 22,
Rd. to Lake St. 433796-1: Main 004578A - Building Hardening - General Maintenance Building	22,500			-	-	-	-	-	-	-	-	
South: Main 004578A - Building Hardening - General Maintenance Building	17,000	306,940		-	-	-	-	-	-	-	-	\$ 17,0 \$ 306,
South: Main 004578A - Building Hardening - General Maintenance Building	-		•			-	-	•		•		\$ 1,323,
South: Main 004900A - Vina Del Mar Neighborhood, St. Pete Beach	815,000	508,060	-	-	-	-	-	-	-	-	-	\$ 1,323,
Water Main Improvements: Main 004900A - Vina Del Mar Neighborhood, St. Pete Beach	200,000	75,000	25,000	-	-	-	-	-	-	-	-	
Water Main Improvements: Main 004902A - 127th Place, 127th Ave, 122nd Ave, 103rd and	1,600,000	2,000,000	1,525,000	-	-	-	-	-	-	-	-	\$ 5,125,
104th St. N, Utility Relocation: Main 004902A - 127th Place, 127th Ave, 122nd Ave, 103rd and 004902A - 127th Place, 127th Ave, 122nd Ave, 103rd and	198,000	45,000	-	-	-	-	-	-	-	-	-	\$ 243,
104th St. N, Utility Relocation: Main 004979B - Watermain Replacement Shore Drive Canal	500,000	1,300,000	-	-	-	-	-	-	-	-	-	\$ 1,800,
Bridge: Main	_	30,000	-	-	-	-	-	-	-	-	-	\$ 30,
004979B - Watermain Replacement Shore Drive Canal Bridge: Main	_	200,000	-	_	_		_	_	_	_	_	\$ 200,
005054A - Replacement of Park Blvd. 24" Water Main: Main	_	100,000	_	_	_	_	_	_	_	_		\$ 100,0



Capital Improvement Program (CIP)												Sc	hedule 6
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Т	otal Cost
90 005063A - Water Main Relocation and Improvements City of		100,000										\$	100,000
Largo's Valencia Drive: Main 005063A - Water Main Relocation and Improvements City of	-		-	-		-	-	-	-	-	-	\$	700,000
Largo's Valencia Drive: Main 005071A - (Area 3 Project) Pruitt, Marguerite and Bayshore	-	700,000	-	-	-	-	-	-	-	-	-	s	100,000
005071A - (Area 3 Project) Pruitt, Marguerite and Bayshore	-	100,000	-	-	-	-	-	-	-	-	-	ę	950,000
Drive, Madeira Beach Utility Relocation: Main	-	800,000	150,000	-	-	-	-	-	-	-	-		
Improvements from Wilcox Rd to Dryer Ave, Largo: Main	-	100,000	-	-	-	-	-	-	-	-	-	\$	100,000
95 005072A - Gladys Street Water Main Relocation and Improvements from Wilcox Rd to Dryer Ave, Largo: Main	-	700,000	-	-	-	-	-	-	-	-	-	\$	700,000
96 005073A - 129th and 131st Avenue E Madeira Beach Utility Relocation: Main	-	100,000	-	-	-	-		-	-	-	-	\$	100,000
97 005073A - 129th and 131st Avenue E Madeira Beach Utility Relocation: Main	-	700,000	-	_	_	-		-	-	_		\$	700,000
98 005216A - Sharkey Road, Terrace Road to Belcher Road Water Main Improvements: Main		100,000	50,000									\$	150,000
005216A - Sharkey Road, Terrace Road to Belcher Road	_	100,000			_				_	_		\$	950,000
Water Main Improvements: Main 005218A - North Booster Pump Station Hardening: Main	-	-	750,000	200,000 400,000	400,000	200,000	400,000	400,000				\$	1,800,000
101 005218A - North Booster Pump Station Hardening: Main	_	-	_	-		2,000,000	4,000,000	-	4,000,000	_	_	\$	10,000,000
102 005220A - Utilities Generator Buildings Sprinkler Installations: Main	_	28,000	10,000	10,000					-	_	_	\$	48,000
005220A - Utilities Generator Buildings Sprinkler Installations: Main		_	70,000	70,000								\$	140,000
104 005222A - Logan Utilities Operations Center Building: Main	-	425,000	213,000	70,000			-	-	-	-	-	\$	638,000
005222A - Logan Utilities Operations Center Building: Main	-	-	1,911,000	2,548,000	2,548,000		-	-	-	-	-	\$	7,007,000
005223A - Rosery Road Water Main Relocation (Phase 2) from Mandalay Drive to Eagle Lake Park, City of Largo: Main	-	250,000	50,000	-			-	-	-	-	-	\$	300,000
107 005223A - Rosery Road Water Main Relocation (Phase 2) from Mandalay Drive to Eagle Lake Park, City of Largo: Main		1,500,000	700,000				-	-	-	-	-	\$	2,200,000
108 005224A - 60" Transmission Water Main Line Valve at Keller Water Treatment Facility: Main	-	50,000	50,000				-	-	-	-	-	\$	100,000
109 005224A - 60" Transmission Water Main Line Valve at Keller Water Treatment Facility: Main		_	200,000	200,000		_	-	-	_			\$	400,000
110 005227A - Keller Emergency Operations Building/Warehouse Main	:		200,000	200,000	200,000	200,000						\$	800,000
005227A - Keller Emergency Operations Building/Warehouse Main	:	-	200,000	200,000	2,750,000	2,750,000	-	-		-	-	\$	5,500,000
112 005228A - Keller Regional Treatment Facility Open Air Building Upgrades: Main			150,000	150,000	10,000	10,000	10,000					\$	330,000
005228A - Keller Regional Treatment Facility Open Air Building Upgrades: Main	-		130,000	150,000	10,000	1,500,000	1,500,000				-	\$	3,000,000
114 005015D-Manufactured Home Communities (MHC) Potable Water Systems Improvements Total		960,000	6,740,000	6,200,000	-	-	-	-	-	-		\$	13,900,000
115 Pipe Replacement	-		-	-	-	-	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	\$	50,000,000
116 Unspecified Future Capital ¹							<u> </u>	10,600,000	4,375,000	7,750,000	11,000,000	\$	33,725,000
117 Total CIP Budget (in current dollars)	\$ 46,403,186			,,				21,000,000 \$		21,000,000 \$,,.	\$	341,958,726
118 Escalated CIP 23	\$ 46,403,186	\$ 52,581,918	60,226,730	\$ 71,131,324	41,425,936	\$ 28,217,069 \$	\$ 33,185,380 \$	32,597,628 \$	33,575,557 \$	34,582,823 \$	35,620,308	\$	469,547,857
119 CIP Adjustment ⁴	(10,526,097)	(30,085,939)	(26,458,265)	(30,952,574)	(5,545,240)	6,061,878	5,419,374	5,898,618	6,075,577	6,257,844	6,445,580		
120 Final CIP Funding Level	\$ 35,877,089	\$ 22,495,979	33,768,465	\$ 40,178,749	35,880,696	\$ 34,278,947 \$	\$ 38,604,754 \$	38,496,246 \$	39,651,133 \$	40,840,667 \$	42,065,887	\$	402,138,613

¹ Unspecified future year capital expenses calculated to match PCU's forecast of \$21M per year.



² CIP escalation factor of 30% in FY 2023 and 3% annually beginning in FY 2024.

³ Escalation not applied to highlighted projects which are fully funded through ARPA, State, or other Federal grants.

⁴ Adjustment to reflect assumed annual capital spending.

		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Operating Revenue												
Water - Retail, Water - Wholesale Rate Revenue	\$	91,447,707	91,447,707 \$	94,108,320	\$ 99,558,951	\$ 105,320,849	\$ 110,808,065	\$ 116,581,165	\$ 117,119,827	123,221,770 \$	129,641,625	136,395,9
	Ψ	01,441,701										
Change in Revenue From Growth 1			1,728,848	709,728	746,620	210,642	221,616	(5,038,473)	234,240	246,444	259,283	272,7
Subtotal	\$	91,447,707			\$ 100,305,571		\$ 111,029,681	\$ 111,542,693				136,668,7
Weighted Average Rate Increase		0.00%	1.00%	5.00%	5.00%		5.00%	5.00%	5.00%	5.00%	5.00%	5.0
Additional Rate Revenue From Rate Increase		-	931,766	4,740,902	5,015,279	5,276,575	5,551,484	5,577,135	5,867,703	6,173,411	6,495,045	6,833,4
Total Rate Revenue	\$	91,447,707	94,108,320 \$	99,558,951	\$ 105,320,849	\$ 110,808,065	\$ 116,581,165	\$ 117,119,827	\$ 123,221,770	129,641,625 \$	136,395,953	\$ 143,502,1
Plus: Other Operating Revenue		4,315,330	4,580,958	4,600,208	4,620,420	4,641,644	4,663,928	4,687,326	4,711,895	4,737,692	4,764,778	4,793,2
Equals: Total Operating Revenue	\$	95,763,037	98,689,278 \$	104,159,159	\$ 109,941,269	\$ 115,449,709	\$ 121,245,093	\$ 121,807,154	\$ 127,933,665	134,379,316 \$	141,160,732	148,295,
Less: Operating Expenses												
Personal Services	\$	(15,864,899)	(16,590,903) \$	(17 101 022)	\$ (17,629,008)) \$ (18,172,676)	\$ (18 733 462)	¢ (10.311.015)	\$ (19,908,229) \$	(20,522,956) \$	(21,156,663)	(21,809,
Personal Services Variable Operations & Maintenance Costs	Ψ	(42,637,167)	(44,726,462)	(45,436,467)	(45,760,011)		(47,398,437)	(45,633,123)	(51,473,864)	(53,124,116)	(54,827,275)	(56,740,
Operations & Maintenance Costs Equals: Net Operating Income		(19,152,545)	(23,546,949)	(24,176,698)	(24,824,080)		(26,173,731)	(26,877,029)	(27,600,020)	(28,343,254)	(29,614,329)	(30,399,
Equals: Net Operating Income	\$	18,108,427	13,824,964 \$	17,444,071	\$ 21,728,171	\$ 25,118,131	\$ 28,939,463	\$ 29,985,086	\$ 28,951,552 \$	32,388,990 \$	35,562,464	\$ 39,345,0
Plus: Non-Operating Income/(Expense)		40.000	05.000 @	05.000								
Non-Operating Revenue	\$,					\$ -		\$ - \$		- :	
Interest Income		785,903	406,559	941,158	843,361	787,939	804,410	820,229	852,736	898,480	933,914	970,
Water Impact Fees		117,216	81,312	81,664	81,664	82,016	82,016	82,368	82,368	82,720	82,720	83,
Transfers In		705,414	680,000	680,000	680,000	680,000	680,000	680,000	680,000	680,000	680,000	680,
Equals: Net Income	\$	19,757,790	15,027,835 \$	19,181,894	\$ 23,333,196	\$ 26,668,085	\$ 30,505,889	\$ 31,567,683	\$ 30,566,655	34,050,190 \$	37,259,098	\$ 41,078,
Less: Revenues Excluded From Coverage Test												
Water Impact Fees	\$	(117,216)	(81,312) \$	(81,664)	\$ (81,664)) \$ (82,016)	\$ (82,016)	\$ (82,368)	\$ (82,368) \$	(82,720) \$	(82,720)	\$ (83,
Equals: Net Income Available For Debt Service	\$					\$ 25,906,069						
Senior Lien Debt Service Coverage Test												
Net Income Available for Senior-Lien Debt Service	•	18.935.160	14.266.523 \$	18.420.230	\$ 22.571.532	\$ 25,906,069	\$ 29,743,873	\$ 30.805.315	\$ 29.804.287 \$	33.287.470 \$	36,496,378	40.315.
Cumulative New Senior Lien Debt Service (calculated)		10,333,100	14,200,323 \$	10,420,230	Ψ 22,37 1,332	733,990	1,463,985	2,294,529	3,600,219	4,807,446	5,929,279	6,941,
			-	-	•							
Total Annual Senior-Lien Debt Service	Req. \$	- :	- \$	-	\$ -		\$ 1,463,985		\$ 3,600,219 \$		5,929,279	
Calculated Senior-Lien Debt Service Coverage	1.15	-	-			35.29	20.32	13.43	8.28	6.92	6.16	
Subordinate Debt Service Coverage Test												
Net Income Available for Subordinate Debt Service	\$				\$ 22,571,532		\$ 28,279,888		\$ 26,204,068 \$		30,567,099	
Total Annual Subordinate Debt Service	Req. \$	- :	- \$	/	\$ -	\$ -	\$ -	\$ -	\$ - \$	- \$	- :	\$
Calculated Subordinate Debt Service Coverage	1.25	-	-			-	-	-	-	-	-	
Total All-In Debt Service Coverage Test												
Net Income Available for Subordinate Debt Service	\$	18,935,160	14,266,523 \$	18,420,230	\$ 22,571,532		\$ 29,743,873		\$ 29,804,287		36,496,378	
Total Senior-Lien Debt Service		-		-	-	733,990	1,463,985	2,294,529	3,600,219	4,807,446	5,929,279	6,941,
Total Annual Debt Service	\$	- ;	- \$		\$ -		\$ 1,463,985		\$ 3,600,219 \$		5,929,279	
Calculated All-In Debt Service Coverage			-		-	35.29	20.32	13.43	8.28	6.92	6.16	
Cash Flow Test												
Net Income Available For Debt Service	\$				\$ 22,571,532		\$ 29,743,873				36,496,378	
Net Interfund Transfers (In - Out)		(21,702,356)	(16,275,810)	680,000	680,000	(17,144,704)	(24,829,924)	(26,725,113)	(19,097,668)	(23,984,491)	(25,738,686)	(28,654
Capital Outlay		(513,071)	(1,147,585)	(1,203,158)	(1,214,699)) (1,274,063)	(1,285,783)	(1,349,207)	(1,361,076)	(1,428,845)	(1,440,830)	(1,513,
Net Cash Flow	\$	(3,280,267)	(3,156,872) \$	17,897,072	\$ 22,036,832	\$ 6,753,312	\$ 2,164,181	\$ 436,467	\$ 5,745,325 \$	3,066,688 \$	3,387,584	3,205
Unrestricted Reserve Fund Test												
Balance At Beginning Of Fiscal Year	\$	29,571,274	26,291,006 \$	23,134,134	\$ 41,031,206	\$ 63,068,039	\$ 69,821,350	\$ 71,985,532	\$ 72,421,999	78,167,323 \$	81,234,011	84,621
Cash Flow Surplus/(Deficit)	Ψ	(3,280,267)	(3,156,872)	17,897,072	22,036,832		2,164,181	436,467	5,745,325	3,066,688	3,387,584	3,205
		(0,200,201)	(3,130,012)	11,001,012	22,000,002	0,733,312	∠,104,101	+30,407	5,145,525	5,000,000	0,001,004	3,203
Reserve Fund Balance Used For Cash Flow Deficit			- 00.404.104. *	44 004 000	- co coc coc	e co co1 o=-	÷ 74 00= =00	ê 70 tot occ	e 70.407.000 ÷	- 04 004 044 .	04.004.505	0=00=
Balance At End Of Fiscal Year	\$,,		41,031,206			\$ 71,985,532		\$ 78,167,323 \$,, +	84,621,595	
Minimum Working Capital Reserve Target		66,867,304	71,534,143	73,447,159	75,192,526	77,680,582	80,117,414	80,844,474	86,618,692	89,993,331	93,705,485	97,252
Excess/(Deficiency) Of Working Capital To Target	\$	(40,576,297)	(48,400,009) \$	(32 415 953)	\$ (12,124,488)) \$ (7,859,232)	\$ (8,131,882)	\$ (8,422,475)	\$ (8,451,369) \$	(8,759,320) \$	(9,083,890)	(9,424

¹ Increase in FY 2023 through FY 2025 due to more accurate meter reads with AMI per County's analysis.



Projection of Capital Improvem	ent Program	Funding So	ources							S	chedule 8
Final Capital Projects Funding Sources	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
1 Grants	\$ -	\$ 306,940	\$ 1,513,820	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 Renewal & Replacement	\$ 35,877,089	\$21,229,039	\$ 25,514,645	\$ 33,978,749	\$ 23,720,555	\$ 25,237,273	\$27,114,520	\$ 19,748,774	\$ 24,356,541	\$ 26,094,116	\$28,994,054
3 ARPA ¹	-	960,000	6,740,000	6,200,000	-	-	-	-	-	-	-
4 Senior-Lien Debt Proceeds	-	-	-	-	12,160,142	9,041,674	11,490,234	18,747,472	15,294,593	14,746,551	13,071,833
5 Total Projects Paid	\$ 35,877,089	\$ 22,495,979	\$ 33,768,465	\$ 40,178,749	\$ 35,880,696	\$ 34,278,947	\$ 38,604,754	\$ 38,496,246	\$ 39,651,133	\$ 40,840,667	\$42,065,887

¹ American Rescue Plan Act



	Sources and Uses by Fund																					S	chedule 9
		F	Y 2022		FY 2023		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029		FY 2030		FY 2031		FY 2032
	Water Impact Fees																						
1	Balance At Beginning Of Fiscal Year	\$	558,956	\$	680,589	\$	764,786	\$	854,506	\$	945,124	\$	1,037,001	\$	1,129,797	\$	1,223,875	\$	1,318,894	\$	1,415,216	\$	1,512,502
2	Annual Revenues		117,216		81,312		81,664		81,664		82,016		82,016		82,368		82,368		82,720		82,720		83,072
3	Subtotal	\$	676,172	\$	761,901	\$	846,450	\$	936,170	\$	1,027,140	\$	1,119,017	\$	1,212,165	\$	1,306,243	\$	1,401,614	\$	1,497,936	\$	1,595,574
4	Total Amount Available For Projects	\$	676,172	\$	761,901	\$	846,450	\$	936,170	\$	1,027,140	\$	1,119,017	\$	1,212,165	\$	1,306,243	\$	1,401,614	\$	1,497,936	\$	1,595,574
5	Subtotal	\$	676,172	\$	761,901	\$	846,450	\$	936,170	\$	1,027,140	\$	1,119,017	\$	1,212,165	\$	1,306,243	\$	1,401,614	\$	1,497,936	\$	1,595,574
6	Plus: Interest Earnings		4,418		2,885		8,056		8,953		9,861		10,780		11,710		12,651		13,603		14,566		15,540
7	Balance At End Of Fiscal Year	\$	680,589	\$	764,786	\$	854,506	\$	945,124	\$	1,037,001	\$	1,129,797	\$	1,223,875	\$	1,318,894	\$	1,415,216	\$	1,512,502	\$	1,611,114
	Grants																						
8	Annual Revenues	\$	-	\$	306,940	\$	1,513,820	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
9	Subtotal	\$	-	\$	306,940	\$	1,513,820	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
10	Total Amount Available For Projects	\$	-	\$	306,940	\$	1,513,820	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
11	Amount Paid For Projects		-		(306,940)		(1,513,820)		-			\overline{Z}	-		-		-		-		-		-
12	Balance At End Of Fiscal Year	\$	-	\$	-	\$	-	\$	-	\$		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
	Renewal & Replacement																						
13	Balance At Beginning Of Fiscal Year	\$ 8	88,671,024	\$	75,201,705	\$	70,928,476	\$	45,413,831	\$	11,435,082	\$	5,539,232	\$	5,811,882	\$	6,102,475	\$	6,131,369	\$	6,439,320	\$	6,763,890
14	Annual Revenues	2	2,407,770		16,955,810		-		-		17,824,704	K	25,509,924		27,405,113		19,777,668		24,664,491		26,418,686		29,334,897
15	Subtotal	\$11	1,078,794	\$	92,157,515	\$	70,928,476	\$	45,413,831	\$	29,259,786	\$	31,049,155	\$	33,216,995	\$	25,880,143	\$	30,795,861	\$	32,858,006	\$	36,098,786
16	Less: Restricted Funds	((4,859,667)		(4,827,447)		(4,954,792)		(5,255,016)		(5,539,232)		(5,811,882)		(6,102,475)		(6,131,369)		(6,439,320)		(6,763,890)		(7,104,732)
17	Total Amount Available For Projects	\$10	6,219,127	\$	87,330,068	\$	65,973,684	\$	40,158,815	\$	23,720,555	\$	25,237,273	\$	27,114,520	\$	19,748,774	\$	24,356,541	\$	26,094,116	\$	28,994,054
18	Amount Paid For Projects	(3	35,877,089)		(21,229,039)	((25,514,645)		(33,978,749)		(23,720,555)		(25,237,273)		(27,114,520)		(19,748,774)		(24,356,541)		(26,094,116)		(28,994,054)
19	Subtotal	\$ 7	0,342,038	\$	66,101,029	\$	40,459,039	\$	6,180,066	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
20	Add Back: Restricted Funds		4,859,667		4,827,447		4,954,792		5,255,016	1	5,539,232		5,811,882		6,102,475		6,131,369		6,439,320		6,763,890		7,104,732
21	Plus: Interest Earnings		586,106		292,260		581,712		284,245		84,872		56,756		59,572		61,169		62,853		66,016		69,343
22	Less: Interest Allocated To Cash Flow		(586,106)		(292,260)		(581,712)		(284,245)		(84,872)		(56,756)		(59,572)		(61,169)		(62,853)		(66,016)		(69,343)
23	Balance At End Of Fiscal Year	\$ 7	75,201,705	\$	70,928,476	\$	45,413,831	\$	11,435,082	\$	5,539,232	\$	5,811,882	\$	6,102,475	\$	6,131,369	\$	6,439,320	\$	6,763,890	\$	7,104,732
	Vehicle Replacement Reserve																						
24	•	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000
25			3,862,000	\$	3,862,000	\$	3,862,000		3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$		\$	3,862,000
26	Less: Restricted Funds		(3,862,000)	Ψ	(3,000,000)		(3,000,000)	۳	(3,000,000)	Ψ	(3,000,000)	Ψ	(3,000,000)	Ψ	(3,000,000)	Ψ	(3,000,000)	Ψ	(3,000,000)	Ψ	(3,000,000)	Ψ	(3,000,000)
27	Total Amount Available For Projects	\$	-	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000
28		\$		\$	862,000	\$		\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000	\$	862,000
29			3,862,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000	Ψ	3,000,000
30	Plus: Interest Earnings		27,626		15,448		38,620		38,620		38,620		38,620		38,620		38,620		38,620		38,620		38,620
31	Less: Interest Allocated To Cash Flow		(27,626)		(15,448)		(38,620)		(38,620)		(38,620)		(38,620)		(38,620)		(38,620)		(38,620)		(38,620)		(38,620)
	Balance At End Of Fiscal Year	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000	\$		\$	3,862,000	\$		\$	3,862,000	\$	3,862,000	\$	3,862,000	\$	3,862,000
	ARPA 1		-		-		-		-		-		-		_		-		-		-		-
33	Annual Revenues	\$		\$	960,000	\$	6,740,000	\$	6,200,000	\$		\$		\$	-	\$		\$	-	\$	-	\$	
34	Subtotal	\$	-	\$	960,000	\$	6,740,000	\$	6,200,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
35	Total Amount Available For Projects	\$	-	\$	960,000	\$	6,740,000	\$	6,200,000	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
36	Amount Paid For Projects		-		(960,000)		(6,740,000)		(6,200,000)		-		-								-		
37	Balance At End Of Fiscal Year	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$		\$	-



	Sources and Uses by Fund											Schedule 9
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
	Revenue Fund											
38	Balance At Beginning Of Fiscal Year	\$ 29,571,274	\$ 26,291,006	\$ 23,134,134	\$ 41,031,206	\$ 63,068,039	\$ 69,821,350	\$ 71,985,532	\$ 72,421,999	\$ 78,167,323	\$ 81,234,011	\$ 84,621,595
39	Net Cash Flow	(3,280,267)	(3,156,872)	17,897,072	22,036,832	6,753,312	2,164,181	436,467	5,745,325	3,066,688	3,387,584	3,205,971
40	Subtotal	\$ 26,291,006	\$ 23,134,134	\$ 41,031,206	\$ 63,068,039	\$ 69,821,350	\$ 71,985,532	\$ 72,421,999	\$ 78,167,323	\$ 81,234,011	\$ 84,621,595	\$ 87,827,566
41	Less: Restricted Funds	(26,291,006)	(23,134,134)	(41,031,206)	(63,068,039)	(69,821,350)	(71,985,532)	(72,421,999)	(78,167,323)	(81,234,011)	(84,621,595)	(87,827,566)
42	Add Back: Restricted Funds	26,291,006	23,134,134	41,031,206	63,068,039	69,821,350	71,985,532	72,421,999	78,167,323	81,234,011	84,621,595	87,827,566
43	Plus: Interest Earnings	199,797	98,850	320,827	520,496	664,447	709,034	722,038	752,947	797,007	829,278	862,246
44	Less: Interest Allocated To Cash Flow	(199,797)	(98,850)	(320,827)	(520,496)	(664,447)	(709,034)	(722,038)	(752,947)	(797,007)	(829,278)	(862,246)
45	Balance At End Of Fiscal Year	\$ 26,291,006	\$ 23,134,134	\$ 41,031,206	\$ 63,068,039	\$ 69,821,350	\$ 71,985,532	\$ 72,421,999	\$ 78,167,323	\$ 81,234,011	\$ 84,621,595	\$ 87,827,566
	¹ American Rescue Plan Act											



Senior Lien Borrowing Projection	S											Sc	chedule 10
		FY 2022	FY 2023	FY 20)24 F	Y 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Term (Years)		30	30	30		30	30	30	30	30	30	30	30
Interest Rate		4.00%	4.50%	5.00	%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
Sources of Funds													
Par Amount	\$	-	\$	- \$	- \$	-	\$ 13,345,274	\$ 9,922,879	\$ 12,610,077	\$ 20,574,608	\$ 16,785,210	\$ 16,183,756	\$ 14,345,819
Uses of Funds													
Proceeds	\$	-	\$	- \$	- \$	-	\$ 12,160,142	\$ 9,041,674	\$ 11,490,234	\$ 18,747,472	\$ 15,294,593	\$ 14,746,551	\$ 13,071,833
Cost of Issuance 2.00% of Par		-			-	-	266,905	198,458	252,202	411,492	335,704	323,675	286,916
Underwriter's Discount - per \$1,0	00	-			-	-	-	-	-	-	-	-	-
Bond Insurance 0 times tot	tal Debt Service	-			-	-	-	_	-	-	-	-	-
Capitalized Interest 0 Years In	terest	-			-	-	-	-	-	-	-	-	-
Debt Service Surety 0.00% of Debt S	Service	-			-	-	-	-	-	-	-	-	-
Debt Service Reserve 1 Year(s)	of Debt Service	-		-	-	-	918,227	682,748	867,641	1,415,644	1,154,913	1,113,530	987,070
Other Costs		-			-	-	_	-	-	-	-	-	-
Total Uses	\$	-	\$	- \$	- \$	-	\$ 13,345,274	\$ 9,922,879	\$ 12,610,077	\$ 20,574,608	\$ 16,785,210	\$ 16,183,756	\$ 14,345,819
1 Year Interest		-		-	-	-	733,990	545,758	693,554	1,131,603	923,187	890,107	789,020
Annual Debt Service	\$	-	\$	- \$	- \$	-	\$ 918,227	\$ 682,748	\$ 867,641	\$ 1,415,644	\$ 1,154,913	\$ 1,113,530	\$ 987,070
Total Debt Service		-	,	=	-	1	27,546,803	20,482,427	26,029,238	42,469,318	34,647,387	33,405,889	29,612,090
Cumulative New Annual Senior Lien Debt Se	ervice ¹ \$	-	\$	- \$	- \$	-	\$ 733,990	\$ 1,463,985	\$ 2,294,529	\$ 3,600,219	\$ 4,807,446	\$ 5,929,279	\$ 6,941,722





Historical & Projected Water Dema	nds											:	Schedule 11
		Historical						Pro	jected				
Projected Water Sales (In 1,000 Gallons)	FY 2020 (1)	FY 2021 (1)	FY 2022 (1)	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
Annual Growth:	0.8%	2.6%	2.6%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Retail Water Sales:	12,421,462	12,742,023	13,074,385	13,100,534	13,126,735	13,152,988	13,179,294	13,205,653	13,232,064	13,258,528	13,285,046	13,311,616	13,338,239
In MGD	34.03	34.91	35.82	36.75	35.96	36.04	36.11	36.18	36.25	36.32	36.40	36.47	36.54
Wholesale Water Sales:	3,698,321	3,900,778	4,044,736	4,052,826	4,060,931	4,069,053	4,077,191	4,085,346	4,093,516	3,004,513	3,010,522	3,016,543	3,022,576
Adjustment - Clearwater (2)	-	-	-	-	-	-	-	-	(1,095,000)	-	-	-	
Wholesale Water Sales	3,698,321	3,900,778	4,044,736	4,052,826	4,060,931	4,069,053	4,077,191	4,085,346	2,998,516	3,004,513	3,010,522	3,016,543	3,022,576
In MGD	10.13	10.69	11.08	11.10	11.13	11.15	11.17	11.19	8.22	8.23	8.25	8.26	8.28
Total Projected Water Sales	16,119,783	16,642,801	17,119,121	17,467,908	17,607,903	17,748,161	17,783,657	17,819,225	16,759,863	16,793,383	16,826,970	16,860,624	16,894,345
Projected Water Sales in MGD	48.76	46.07	43.42	46.24	44.44	44.07	44.16	45.60	46.90	47.86	48.24	48.63	48.72
Estimated Line Losses from TBW Purchases (3)	1,915,047	1,391,939	911,879	1,147,512	1,044,747	941,794	943,678	945,565	854,124	855,833	857,544	859,259	860,978
Total Estimated TBW Water Purchase Req	18,034,830	18,034,740	18,031,000	18,615,419	18,652,650	18,689,955	18,727,335	18,764,790	17,613,988	17,649,216	17,684,514	17,719,883	17,755,323
Total TBW Water Purchase Req in MGD	49.41	49.41	49.40	51.00	51.10	51.21	51.31	51.41	48.26	48.35	48.45	48.55	48.64

¹ Retail and wholesale water sales are based upon actual sales as provided by County staff.



² Represents 3 MGD reduction due to decline in Clearwater demand.

³ Estimated line losses from TBW purchases after FY 2022 are calculated annually based upon a 3-year average of line loss factors as a percent of total sales (FY 2020 - FY 2022) and adjusted to account for increases in billed volume resulting from AMI.

Projection of Purchased Water

Schedule 12

Tampa Bay Water - Summary	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Variable \$	\$ 31,824,144	\$ 31,882,029	\$ 32,338,594	\$ 37,127,633	\$ 39,112,021	\$ 41,073,814
All Other \$	\$ 154,023,611	\$159,534,515	\$163,169,187	\$165,245,785	\$169,303,924	\$174,365,462
Annual \$	\$ 185,847,755	\$191,416,544	\$195,507,781	\$202,373,418	\$208,415,945	\$215,439,276
Bdgt/Forecast MGD	197.5	200.6	202.8	206.7	209.3	211.8
•				>		
V Portion (\$ / TGAL)	\$0.4415	\$0.4342	\$0.4369	\$0.4921	\$0.5120	\$0.5299
AO (\$ / TGAL)	\$2.1366	\$2.1729	\$2.2043	\$2.1903	\$2.2162	\$2.2493
TBW Unitary Rate (\$ / TGAL)	\$2.5781	\$2.6072	\$2.6412	\$2.6824	\$2.7282	\$2.7792
DEMAND FORECAST	Projected>					
PCU	51.00	51.10	51.21	51.31	51.41	48.26
St. Pete	27.68	27.68	27.68	27.68	27.68	27.68
Hillsborough	75.95	78.23	80.58	83.00	85.49	88.05
Pasco	34.55	35.59	36.65	37.75	38.89	40.05
New Port Richey	2.94	2.94	2.94	2.94	2.94	2.94
Tampa (Morris Br)	0.00	0.00	0.00	0.00	0.00	0.00
Total MGD	192.13	195.54	199.06	202.68	206.40	206.98
Revised Unitary Rate (\$ / TGAL) '	\$2.6379	\$2.6634	\$2.6826	\$2.7258	\$2.7593	\$2.8315
Var from TBW Rate	2.3%	2.2%	1.6%	1.6%	1.1%	1.9%
TBW Expenses - Revised Unitary Rate	\$ 49,104,857	\$ 49,814,863	\$ 50,138,406	\$ 51,047,709	\$ 51,776,833	\$ 50,011,519
Less: Credits	\$ (4,378,396)	\$ (4,378,396)	\$ (4,378,396)	\$ (4,378,396)	\$ (4,378,396)	\$ (4,378,396)
Net PCU PW Expense - Revised	\$ 44,726,462	\$ 45,436,467	\$ 45,760,011	\$ 46,669,313	\$ 47,398,437	\$ 45,633,123

⁽¹⁾ Unit rate projected to increase by 3% beginning in FY 2029.

Appendix B – Sewer Fund Revenue Sufficiency Analysis

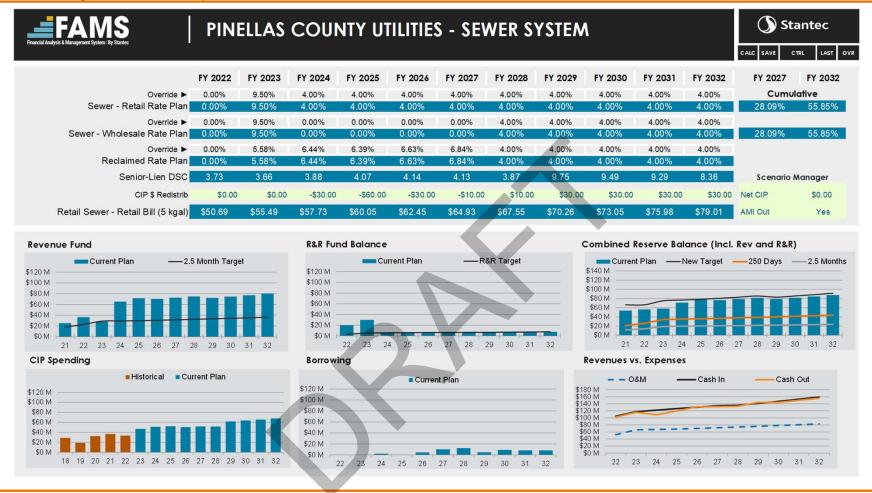
Appendix B SEWER FUND REVENUE SUFFICIENCY ANALYSIS

Schedule 1	Financial Management Plan Summary
Schedule 2	Assumptions
Schedule 3	FY 2022 Beginning Fund Balances
Schedule 4	Projection of Cash Inflows
Schedule 5	Projection of Cash Outflows
Schedule 6	Capital Improvement Program (CIP)
Schedule 7	Pro Forma: Projection of Annual Cashflow and Debt Service Coverage
Schedule 8	Sources and Uses by Fund
Schedule 9	Projection of Capital Improvement Program Funding Sources
Schedule 10	Senior-Lien Borrowing
Schedule 11	Historical & Projected Sewer Volumes



Financial Management Plan Summary

Schedule 1





Assumptions	F1/ 0055	P1/2000	P1/ 005 :	F1/ 005-	F1/225	F1/ 005-	F1/ 0055	F1/ 0000	F1.005		Schedule 2
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 203
ate Increase Adoption Date	10/1/2021	10/1/2022	10/1/2023	10/1/2024	10/1/2025	10/1/2026	10/1/2027	10/1/2028	10/1/2029	10/1/2030	10/1/203
nnual Growth											
ewer - Retail											
nding # of Customer Accounts	70,961	71,103	71,245	71,388	71,530	71,673	71,817	71,960	72,104	72,249	72,39
ustomer Account Growth		142	142	142	143	143	143	144	144	144	14
Change in Customer Accounts		0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.209
lled Volume (Kgal)	6,775,095	6,951,643	7,019,987	7,088,460	7,102,637	7,116,842	7,131,076	7,145,338	7,159,629	7,173,948	7,188,29
Change in Billed Volume		2.61%	0.98%	0.98%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.209
wer - Wholesale											
nding # of Customer Accounts	3	3	3	3	3	3	3	3	3	3	:
ustomer Account Growth		_	_	_	_		_	_	_	_	_
Change in Customer Accounts		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.009
lled Voume (Kgal)	1,940,326	1,944,207	1,948,095	1,951,991	1,955,895	1,959,807	1,963,727	1,967,654	1,971,589	1,975,533	1,979,48
Change in Billed Volume	1,010,020	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.209
Paying Capital Charges	100%	100%	100%	100%	100%		100%	100%	100%	100%	100
vi aying capital changes	10070	,,,,,	,00,0	, 00,0	.00%		10070	,,,,,	70070	,00,0	
eclaimed											
nding # of Customer Accounts	23,075	23,075	23,075	23,075	23,075	23,075	23,075	23,075	23,075	23,075	23,07
ustomer Account Growth		-	-	-	-	-	-	-	-	-	-
Change in Customer Accounts		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.009
pital Spending											
nual Capital Spending (Future Year Dollars)	\$ 33,432,430	\$ 46 758 956	\$ 51 111 852	\$ 52 175 898	\$ 50 505 912	\$ 51 878 125	\$ 51 402 717	\$ 61 792 206	\$ 63,645,973	\$ 65 555 352	\$ 67 522 01
nual Percent Executed ¹	50%	Ψ .σ,,σσ,σσσ	\$ 01,111,002	V 02, V ,000	\$ 55,555,512	01,070,120	Ψ 01,102,111	Ψ 01,102,200	ψ σσ,σ ισ,σ σ	Ψ 00,000,002	ψ 01,022,011
rayana Ammuel Intercet Ferminas Bets											
verage Annual Interest Earnings Rate ewer System Enterprise Fund	0.94%	0.60%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.009
•	0.5470	0.0070	1.00%	1.00%	1.00%	1.0070	1.0070	1.0070	1.0070	1.0070	1.00
nnual O&M Expense Cost Escalation:			2								
ersonal Services	N/A		3.08%	3.08%	3.08%	3.08%	3.08%	3.08%	3.08%	3.08%	3.08
perating Expenses	N/A	Reflects	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80
ower, Water & Sewer, Other Utilities	N/A	Adopted	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80
nemicals	N/A	Budget	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80
est Allocation	N/A	w/Adjustments	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80
pital Equipment	N/A		2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80%	2.80
eserve Targets											
perating Reserve (Months of O&M)	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.
otal Reserve Calculation											
Renewal & Replacement	\$ 21,679,339	\$ 22,329,719	\$ 22,999,611	\$ 23,689,599	\$ 24,400,287	\$ 25.132.296	\$ 25,886,265	\$ 26.662.852	\$ 27,462,738	\$ 28,286,620	\$ 29,135,219
Insurance Deductible	5,000,000	5,000,000	5,150,000	5,304,500	5,463,635	5,627,544	5,796,370	5,970,261	6,149,369	6,333,850	6,523,86
Revenue Loss during Natural Disaster	21,813,394	26,400,090	26,732,032	27,090,129	27,812,089	28,666,955	29,601,824	27,249,171	28,148,105	29,070,722	30,271,46
General Contingency	1,567,162	1,988,057	2,014,779	2,042,314	2,100,687	2,160,765	2,222,597	2,286,222	2,351,693	2,419,062	2,488,38
	13,633,371	16,500,056	16,707,520	16,931,331	17,382,556	17,916,847	18,501,140	17,030,732	17,592,566	18,169,201	18,919,66
Liquidity		3,069,544	3,190,572	3,317,496	3,430,024	3,547,480	3,695,240	3,849,157	4,009,488	4,176,499	4,350,47
Liquidity Rate Stabilization Reserve					\$ 80,589,277	\$ 83,051,887	\$ 85,703,436	\$ 83,048,395	\$ 85,713,959	\$ 88,455,956	\$ 91,689,07
Rate Stabilization Reserve	2,750,181 \$ 66 443 447	\$ 75 287 466	\$ 76 794 514	\$ 78375368						Ψ 00,400,000	
Rate Stabilization Reserve otal Recommended Reserve	\$ 66,443,447 15.3	\$ 75,287,466 13.6	\$ 76,794,514 13.7	\$ 78,375,368 13.8	13.8	13.8	13.9	13.1	13.1	13.2	13.3
Rate Stabilization Reserve tal Recommended Reserve tal (Months O&M)	\$ 66,443,447					13.8	13.9	13.1	13.1	13.2	13.3
Rate Stabilization Reserve otal Recommended Reserve otal (Months O&M) perating Budget Execution Percentage	\$ 66,443,447 15.3	13.6	13.7	13.8	13.8						
. ,	\$ 66,443,447					13.8 95% 100%	13.9 95% 100%	13.1 95% 100%	13.1 95% 100%	13.2 95% 100%	13.3 959 1009

¹⁾ Capital execution in FY 2022 calculated to match total capital spending shown in PCU's forecast. 2) FY 2022 expenses based on actuals. Future year projections executed at 95% per PCU's forecast.



Appendix B – Sewer Fund Revenue Sufficiency Analysis

FY 2022 Beginning Balances as of 10/1/2021

Schedule 3

	Grouping of Funds in Model	Revenue Fund	Restr Rese			Interest & inking	Vehicle Replacement		enewal & olacement
Current Assets Cash Investments Accounts and Notes Receivable		\$ 5,386,776 16,881,309 9,528,718	\$	- - -	\$	162,251 474,992 -	\$ - -	\$	4,027,529 29,800,378 -
Assessments Receivable Accrued Interest Receivable Due from Other Governments		660 46,176 1,756,746		- - -		1,250 -	- - -		- 78,475 213,475
Inventory of Supplies Prepaid Expenses		550,826 114,007		-	•	-	-	•	-
Total Assets		\$ 34,265,219	\$		\$	638,493	\$ -	\$	34,119,857
Current Liabilities Less: Vouchers Payable Less: Contracts Payable		\$ (3,527,219)	\$	-	\$	-	\$ -	\$	(3,783,379 (1,831,694
Less: Due to Other Funds Less: Due to Other Governments Less: Accrued Liabilities	-	(33,286) (258,986)		- - -		-	- - -		(51 - -
Less: Compensated Absences		(1,053,433)		-		-	-		-
Calculated Fund Balance (Assets - Liabilities)		\$ 29,392,295	\$	-	\$	638,493	\$ -	\$	28,504,732
Plus/(Less): Restricted for Debt Service Plus/(Less): Vehicle Replacement		(4,000,000)	3	375,150 -		(375,150)	4,000,000		-
Net Unrestricted Fund Balance		\$ 25,392,295	\$ 3	375,150	\$	263,343	\$ 4,000,000	\$	28,504,732
Available Fund Balance		\$ 25,392,295	\$ 3	375,150	\$	263,343	\$ 4,000,000	\$	28,504,732
Fund Summary									
Revenue Fund	\$ 25,392,295								
Restricted Reserves	375,150								
Sewer Interest & Sinking	263,343								
Vehicle Replacement	4,000,000								
Renewal & Replacement	28,504,732	_							
Total Available Funds	\$ 58,535,519								



	ection of Cash Inflows																						hedule
			FY 2022	F	Y 2023		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029		FY 2030		FY 2031		FY 2032
	Rate Revenue Growth Assumptions Sewer - Retail																						
1	% Change in Retail Customers		N/A		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%
	% Change in Retail Billed Volume		N/A		2.61%		0.98%		0.98%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%
	Sewer - Wholesale																						
3	% Change in Wholesale Customers		N/A		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
	% Change in Wholesale Billed Volume		N/A		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%		0.20%
	Ending # of																						
5	% Change in Reclaimed Water Customers		N/A		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
	Proposed Rate Revenue Increases (1)																						
6	Retail Sewer Rate Increase		9.50%		9.50%		4.00%		4.00%		4.00%		4.00%		4.00%		4.00%		4.00%		4.00%		4.00%
7	Wholesale Sewer Rate Increase		9.50%		9.50%		0.00%		0.00%		0.00%		0.00%		4.00%		4.00%		4.00%		4.00%		4.00%
В	Reclaimed Rate Increase		5.90%		5.58%		6.44%		6.39%		6.63%		6.84%		4.00%		4.00%		4.00%		4.00%		4.00%
	Rate Revenue	_				_		_				4		_		_		_		_		_	
	Retail Sewer Base Rate Revenue	\$	25,382,188		27,849,083	\$		\$		\$	31,514,765	\$		\$	34,222,852	\$	35,662,950	\$	37,163,647	\$	38,727,493	\$	40,357,14
	Retail Sewer Volumetric Rate Revenue Wholesale Sewer Rate Revenue		41,879,308 12,280,939		47,052,822 13,447,629		49,416,035 13,447,629		51,893,959 13,447,629		54,077,656 13,447,629	>	56,353,244 13,447,629		58,724,589 13,985,534		61,195,719 14,544,955		63,770,835 15,126,753		66,454,312 15,731,823		69,250,70 16,361,09
	Retail Reclaimed Water Rate Revenue		6,481,922		6,843,613		7,284,342		7,749,811		8,263,623		8,828,855		7,258,009		7,548,330		7,850,263		8,164,274		8,490,8
3	Wholesale Reclaimed Water Rate Revenue		843,368		890,427		947,771		1,008,334		1,075,186		1,148,729		1,194,678		1,242,465		1,292,164		1,343,850		1,397,6
4	Total Sewer Fund Rate Revenue	\$	86,867,725	\$	96,083,574	\$	100,116,748	\$	104,341,906	\$	108,378,860	\$	112,619,364	\$ 1	115,385,662	\$	120,194,419	\$	125,203,662	\$	130,421,752	\$	135,857,4
	Other Operating Revenue (2)																						
5	3290006 Industrl Wstewtr Dis Perm	\$	49,850	\$	72.000	\$	72,000	\$	72,000	\$	72.000	\$	72.000	\$	72.000	\$	72,000	\$	72.000	\$	72,000	\$	72.0
	3290007 Grease Permitting Fee		119,180	*	120,000	*	120,000	*	120,000	-	120,000	Ţ	120.000	-	120,000	*	120,000	*	120,000	-	120,000	-	120,0
	3435120 Tapping Fees		224,604		30,000		30,000		30,000		30,000		30,000		30,000		30,000		30,000		30,000		30,0
	3435121 Sewer-Late Payment Fee		463,858		540,000		540,000		540,000		540,000	\neg	540,000		540,000		540,000		540,000		540,000		540,0
	3435351 Swr Svc- Bill Fr Belleair ³		1,547,241		1,727,395		1,727,395		1,727,395		1,727,395		1,727,395		1,796,491		1,868,351		1,943,085		2,020,808		2,101,6
9	3435352 Swr Svc- Bill Fr Gulfport ³		1,093,932		1,207,697		1,207,697				1,727,593		1,207,697		1,750,451		1,306,246		1,358,495		1,412,835		1,469,3
	· · · · · · · · · · · · · · · · · · ·								1,207,697	4													
	3435353 Swr Svc- Bill Fr Pnls Prk ³		746,166		826,900		826,900		826,900		826,900		826,900		859,976		894,375		930,150		967,356		1,006,0
	3435354 Swr Svc- Bill Fr St Pete 3		11,216,197		12,424,538		12,424,538	-7	12,424,538	N	12,424,538		12,424,538		12,921,519		13,438,380		13,975,915		14,534,952		15,116,3
23	3435355 Swr Svc- Bill Fr Utls Inc 3		190,211		164,568		164,568		164,568		164,568		164,568		171,150		177,996		185,116		192,521		200,2
	3435502 Laboratory Services		259,559		220,000		220,000	4	220,000	V	220,000		220,000		220,000		220,000		220,000		220,000		220,0
	3435570 Miscellaneous Revenue		47,817		42,747		42,747		42,747	~	42,747		42,747		42,747		42,747		42,747		42,747		42,7
26	3435601 Fat/Oil/Grease Tip Fees		226,263		238,168		238,168		238,168		238,168		238,168		238,168		238,168		238,168		238,168		238,1
	3435701 Pelletized Sludge Sales		189,559		190,000		190,000		190,000		190,000		190,000		190,000		190,000		190,000		190,000		190,0
	3490010 Chg For Sv-Bad Dbt Ex(DR)		(21,788)		-				-		-		-		-		-		-		-		
9	3621008 Rent-Bldg/Space		193,772		198,000		198,000		198,000		198,000		198,000		198,000		198,000		198,000		198,000		198,0
	3644100 Sale- Surplus Equipment		92,822		35,000		35,000		35,000		35,000		35,000		35,000		35,000		35,000		35,000		35,0
	3644200 Ins Proceeds-Furn/Fxtr/Eq		15,877	4	20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,0
	3650003 Sale-Scrap		2,360	- 7	6,000		6,000		6,000		6,000		6,000		6,000		6,000		6,000		6,000		6,0
	3699305 Inter-Reimb-External-Other		126,425		165,000		165,000		165,000		165,000		165,000		165,000		165,000		165,000		165,000		165,0
34	3699350 Refund Of Prior Yrs Exp		36,405		-		-		-		-		-		-		-		-		-		
	3699991 Other Miscellaneous Revenue		5,473		10,000		10,000		10,000		10,000		10,000		10,000		10,000		10,000		10,000		10,0
	3898351 Cap Con-Pvt-Swr Connectn		545,041		682,000	M	682,000		682,000		682,000		682,000		682,000		682,000		682,000		682,000		682,0
	3815001 Transfer from BTS		4,090		-		-		-		-		-		-		-		-		-		
88	3313901 Fed Grant-Other Physical Environ		10,557		-		-		-		-		-		-		-		-		-		
19	3693099 Miscellaneous Settlements Reclaimed Meter Reimbursement Fees		86,923		2,298,339		2,298,339		2,298,339		2,298,339		2,298,339		-		-		-		-		
	Total Other Operating Revenue	\$	17,472,394	\$	21,218,353	\$	21,218,353	\$	21,218,353	\$	21,218,353	\$	21,218,353	\$	19,574,058	\$	20,254,264	\$	20,961,678	\$	21,697,388	\$	22,462,5
	Interest Income																						
2	Unrestricted	\$	519,329	\$	367,771	\$		\$	784,946	\$	811,666	\$	818,206	\$	843,777	\$	843,759	\$	843,812	\$	870,850	\$	900,7
3	Restricted		3,532		2,251		3,752		3,752		3,752		3,752		3,752		3,752		3,752		3,752	_	3,7
4	Total Interest Income	\$	522,861	\$	370,022	\$	690,872	\$	788,697	\$	815,418	\$	821,957	\$	847,528	\$	847,511	\$	847,563	\$	874,601	\$	904,4

¹⁾ FY 2022 and FY 2023 reflect actual BCC adopted rates. Reclaimed water increases in FY 2022 and FY 2023 reflect projected overall increases per previous rate study based on recommended and adopted rates.

³⁾ Wholesale rates projected to increase by rates shown in line 7.



²⁾ FY 2023 Other Operating Revenues reflect the Adopted Budget adjusted to account for the County's practice of budgeting at 95% of projected revenues.

Appendix B – Sewer Fund Revenue Sufficiency Analysis

15 340000 Contract Services-Other 28,088 10,500 10,704 11,069 11,407 11,728 12,055 12,092 12,739 13,086 13,040 10,040	schedule											rojection of Cash Outlows
	FY 2031 FY 2032	FY 2030	FY 2029	FY 2028	Y 2027 I	Y 2026	FY 2025	Y 2024	Y 2023	FY 2022		
Part												FUND 4051 - SEWER OPERATING
1 STROND Recentlers Selements () \$ 74,010 \$ 9,000 \$ 70,020 \$ 72,175 \$ 74,010 \$ 9,000												
2 STATEM PROGRESS 280,080 297,973 307,144 316,060 202,981 238,024 346,788 367,492 288,155 289,049 18,020 18,770 19,033 29,547 21,181 21,884 22,507 23,201 23,101 24,884 24,88	\$ 86,596 \$ 89,26	04.006 €	01.402	70.0EF @	76 600	74 200 ¢	70.47E	70.000 f	67.020 f	74 C40	œ.	
Selection Conference Pay											ф	
Settlene												
Section Performance Section			•									, , , , , , , , , , , , , , , , , , , ,
		,	. ,	. ,								02.10001.107.1107.00
				134,183	130,170	126,278		118,847	•			
Section Communication Co		-	-	-	_	-		-	-			
Main September		-	-	-	7.00				-	(2,207)		
2 STORES Servener Computing \$ - \$ 90 \$ 93 \$ 96 \$ 98 \$ 101 \$ 100 \$	9,255 9,54	8,978	8,710	8,449	8,196	7,951	7,714	7,483	7,260	-		5150001 One Time COLA Wage Disburse
SAMPON Contract Services-Other 28,088 10,500 10,794 11,086 11,407 11,726 12,092 12,739 13,086 24,0000 Traval and Per Diem 95 7,700 7,916 8,137 8,855 8,596 8,840 9,084 9,342 9,004 3,54010 Transportation Exp 1,615												O&M Expenses
2 SAROUNT Travel and Per Diem	\$ 112 \$ 11	109 \$	106 \$	103 \$	101 \$	98 \$	95 \$	93 \$	90 \$	- \$	\$	5310033 General Consulting
5401101 Manago-Ukai Town	13,096 13,46	12,739	12,392	12,055	11,726	11,407	11,096	10,794	10,500	28,098		5349000 Contract Services-Other
ModPut Miseage-Out of Town	9,604 9,8	9,342	9,088	8,840	8,599	8,365	8,137	7,916	7,700	95		5400001 Travel and Per Diem
5 5400209 MealsiPer Diam	· - · · -	· -	-	-	-	-	-	-	-	1,615		3 5400100 Transportation Exp
\$ 4500000 Mealing Pro Diam		-	-	-	-			-	-	142		4 5400110 Mileage-Out of Town
7. F540300 HoleshModelsLodgring 3,732		-	-	-	-		-	-	-			
Sections Section Sec		_	_	-	_	-/		_	-	6		5 5400205 Meals-Taxable
SAGONO Travel-Other		_	_	-	-		_	_	_			
541001 Communication Services		-	_	-	_		_	_	_	-, -		
3 546000 RepairMaint=Equipment 664 3,780 3,886 3,986 4,106 4,221 4,340 4,461 4,586 4,715 4 547000 Thirding and Binding Exp 637 260 267 275 262 290 298 307 315 3242 548000 Othr Current Chap&Chilighat 333 40 41 42 43 45 46 46 47 49 50 5 5486521 Into Syst-Pieck-Op & Maint 6,080 6,730 6,918 7,112 7,311 7,516 7,726 7,943 8,165 8,344 5 5 5 5 5 5 5 5 5	1,260 1,29	1.225	1.192	1.160	1.128	1.097	1.067	1.038	1.010			
S47001 Printing and Blinding Exp 637 260 267 276 282 290 298 307 315 324												
2 549001 Othr Current ChagaChiligat 333 40 41 42 43 45 46 47 49 50 3496821 Intro SynPiles Exp 3,994 1,230 1,264 1,300 1,336 1,374 1,412 1,452 1,452 1,492 1,534 359001 Office Supplies Exp 1,000 0 1,000 0 1,000 0 1,336 1,374 1,412 1,452 1,452 1,492 1,534 359000 Oper. Supplies-Clothing 1,000 0 750 771 793 815 838 862 886 910 359000 Oper. Supplies-Clothing 1,000 0 750 771 793 815 838 862 886 910 359000 Oper. Supplies-Clothing 1,000 0 638												
3. 5496521 Intgy Sv-Fleet-Op & Maint 550000 From Supplies-Euro 550000 Small Tools Supplies-Core 550000 Small Tools Supples-Core 550000 Small Tools Supples-Core 550000 Per Supplies-Core 55000 Per Supplies-Core 550000 Per Supplies-Core 55000 Per Supplies-Core 55000 Per Sup												
550000 10 10 10 10 10 10												
5 552000 Small Tools, Supplies-Corbing 160 730 750 771 793 815 83.05 3.295 3.387 3.482 3.580 552000 Cyper, Supplies-Corbing 160 730 750 771 793 815 838 862 886 910 552000 Cyper, Supplies-Corbing 160 730 750 771 793 815 838 862 886 910 552000 Cyper, Supplies-Computer 490												
3 5520006 Oper. Supplies-Computer 5520009 CPC Supplies-Computer 490												
7. 5520000 Oper. Supplies-Computer 490												
3 5520009 PC Purchases under \$1000 538 55000 PC Purchases under \$1000 552000 Opt Supplies-Miss 6,698 5,600 5,757 5,918 6,698 6,698 5,600 5,757 5,918 6,698 6,698 5,600 5,757 5,918 6,698 6,794 6,984 6,254 6,429 6,609 6,794 6,984 6				-			4	750	- 1			
9 5520000 Open: Supplies-Miscs 6,698 5,600 5,757 5,948 6,084 6,254 6,429 6,600 6,794 6,984 0,5540 18ks, Pub, Subscrp&Membrshps 2,585 350 360 370 380 391 402 413 452 413 425 5,575 5,675 5		-	=	-	=	=	-	· ·	-			
5550001 Fixe Pub Subscrp&Membrshps	6,984 7,18	6 704	6 600	6.420	6 254	6.084	5.018	5 757	5 600			
5550001 Training and Education Costs 3,103 4,560 4,677 4,808 4,943 5,081 5,224 5,370 5,520 5,675					- / -							
2 5400105 Mileage-Local 14												
3 5490000 Incentives & Awards	5,675 5,83					4,943		4,6//	4,550			
4 5520098 PC purchases under \$5,000						-		-	040			
No. Parsonal Services	387 39	3/6	366	356	346	337	328	319	310			
Personal Services										1,200		
5 5110001 Executive Salaries \$ 1,071,854 \$ 1,534,460 \$ 1,581,663 \$ 1,630,347 \$ 1,680,560 \$ 1,732,349 \$ 1,785,767 \$ 1,840,832 \$ 1,897,595 \$ 1,956,108 \$ 5120001 Regular Salaries & Wages												
148,980 367,870 379,186 390,858 402,896 415,312 428,118 441,319 454,928 468,956 5130001 Other Salaries And Wages 12,578	\$ 1,956,108 \$ 2,016,42	1.897.595 \$	1.840.832 \$	1.785.767 \$	1.732.349 \$	1.680,560 \$	1.630.347 \$	1.581.663 \$	1.534,460 \$	1.071.854 \$	\$	
12,578 130001 Other Salaries And Wages 12,578 4.812 3,950 4,072 4,197 4,326 4,459 4,597 4,739 4,885 5,035 5210001 FICA Taxes 91,717 143,490 147,904 152,457 157,152 161,995 166,990 172,139 177,447 182,919 522001 Retirement Contributions 135,605 222,490 229,334 236,393 243,674 251,183 258,928 266,913 275,143 283,627 5230001 Hith_Life_Dntl,Std_Ltd 229,225 431,740 445,021 458,719 472,847 487,419 502,449 517,942 533,913 550,376 5299991 Reg SalaWges-Cntra-Prj-Bur (110,330) (106,550) (109,828) (113,208) (116,695) (120,291) (124,000) (127,824) (131,765) (135,828 5299992 Benefits-Contra-Projects (34,544) (99,740) (102,808) (105,973) (109,236) (112,603) (116,075) (119,654) (123,344) (127,147 5150001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419											•	
3 5140001 Overtime Pay 4,812 3,950 4,072 4,197 4,326 4,459 4,597 4,739 4,885 5,035 5,035 5,0001 FICA Taxes 91,717 143,490 147,904 152,457 157,152 161,995 166,990 172,139 177,447 182,919 1,00000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000		-34,320	-	-20,110	-10,512			373,100	307,070			
9 5210001 FICA Taxes 9 91,717 143,490 147,904 152,457 157,152 161,995 166,990 172,139 177,447 182,919 5220001 Retirement Contributions 135,605 222,490 229,334 236,393 243,674 251,183 258,928 266,913 275,143 283,627 152,0001 Hith,Life,Dntl,Std,Ltd 229,225 431,740 445,021 458,719 472,847 487,419 502,449 517,942 533,913 550,376 25299989 Rg Sal&Wges-Cntra-Prj-Bur (110,330) (106,550) (109,828) (113,208) (116,695) (120,291) (124,000) (127,824) (131,765) (135,828 5299991 Reg Salary&Wgs-Contra-Prj (148,135) (267,170) (275,389) (283,865) (292,608) (301,625) (310,926) (320,513) (330,397) (340,585 45299992 Benefits-Contra-Projects (34,544) (99,740) (102,808) (105,973) (109,236) (112,603) (116,075) (119,654) (123,344) (127,147 5150001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419 O&M Expenses Salary&Wgs-Contra-Projects Salary&Wgs-		4 885	1 730	<i>1</i> 507	1 150			4 072	3 950			· ·
1 5220001 Retirement Contributions 135,605 222,490 229,334 236,393 243,674 251,183 258,928 266,913 275,143 283,627 5230001 Hith_Life_Dntl,Std_Ltd 229,225 431,740 445,021 458,719 472,847 487,419 502,449 517,942 533,913 550,376 5299998 Rg Sal&Wges-Cntra-Prj-Bur (110,330) (106,550) (109,828) (113,208) (116,695) (120,291) (124,000) (127,824) (131,765) (135,826 5299991 Reg Salary&Wgs-Contra-Prj (148,135) (267,170) (275,389) (283,865) (292,608) (301,625) (310,926) (320,513) (330,397) (340,585 5299992 Benefits-Contra-Projects (34,544) (99,740) (102,808) (105,973) (109,236) (112,603) (116,075) (119,654) (123,344) (127,147 5150001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419												,
1 5230001 Hlth,Life,Dntl,Std,Ltd 229,225 431,740 445,021 458,719 472,847 487,419 502,449 517,942 533,913 550,376 2 5299889 Rg Sal&Wges-Cntra-Prj-Bur (110,330) (106,550) (109,828) (113,208) (116,695) (120,291) (124,000) (127,824) (131,765) (135,828 3 529991 Reg Salary&Wgs-Contra-Prj (148,135) (267,170) (275,389) (283,865) (292,608) (301,625) (310,926) (320,513) (330,397) (340,585 4 529992 Benefits-Contra-Projects (34,544) (99,740) (102,808) (105,973) (109,236) (112,603) (116,075) (119,654) (123,344) (127,147 5150001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419 O&M Expenses										· ·		
2 529998 Rg Sal&Wges-Cntra-Prj-Bur (110,330) (106,550) (109,828) (113,208) (116,695) (120,291) (124,000) (127,824) (131,765) (135,828 d) (135,928)												
3 5299991 Reg Salary&Wgs-Contra-Prj (148,135) (267,170) (275,389) (283,865) (292,608) (301,625) (310,926) (320,513) (330,397) (340,585 (399992 Benefits-Contra-Projects (34,544) (99,740) (102,808) (105,973) (109,236) (112,603) (116,075) (119,654) (123,344) (127,147 (515001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419 (345,545) (340,034)												
4 5299992 Benefits-Contra-Projects (34,544) (99,740) (102,808) (105,973) (109,236) (112,603) (116,075) (119,654) (123,344) (127,147 5 150001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419												
O&M Expenses 5 5150001 One Time COLA Wage Disburse - 27,000 27,831 28,687 29,571 30,482 31,422 32,391 33,390 34,419 O&M Expenses 5310033 General Consulting \$ 4,879,138 \$ 8,001,500 \$ 7,225,542 6,427,857 6,607,837 6,792,857 6,983,057 \$ 7,178,582 \$ 7,379,582 \$ 7,586,211 7 5349000 Contract Services-Other 63,187 87,400 89,847 92,363 94,949 97,608 100,341 103,150 106,038 109,007 3 5399989 Op Exp-Contra-Proj-Burdng (134,530) (134,530) (142,169) (146,150) (150,242) (154,449) (158,773) (163,219) (167,789) 5 400001 Travel and Per Diem - 23,700 24,364 25,046 25,747 26,468 27,209 27,971 28,754 29,559												
O&M Expenses O&M Expenses Satisficient of Sayanger of Say										(34,544)		
5 310033 General Consulting \$ 4,879,138 \$ 8,001,500 \$ 7,225,542 \$ 6,427,857 \$ 6,607,837 \$ 6,792,857 \$ 6,983,057 \$ 7,178,582 \$ 7,379,582 \$ 7,586,211 7 5349000 Contract Services-Other 63,187 87,400 89,847 92,363 94,949 97,608 100,341 103,150 106,038 109,007				•		•						-
5349000 Contract Services-Other 63,187 87,400 89,847 92,363 94,949 97,608 100,341 103,150 106,038 109,007 5399989 Op Exp-Contra-Proj-Burdng (139,584) (134,530) (138,297) (142,169) (146,150) (150,242) (154,449) (158,773) (163,219) (167,789 5400001 Travel and Per Diem - 23,700 24,364 25,046 25,747 26,468 27,209 27,971 28,754 29,559	¢ 7.506.044 ¢ 7.700.6	7 270 502 🌣	7 170 500 0	6 002 0E7	6 702 957 🐧	6 607 927 🌣	6 427 957 🐧	7 225 542	9 001 E00	4 070 120 ↑	•	
3 5399989 Op Exp-Contra-Proj-Burdng (139,584) (134,530) (138,297) (142,169) (146,150) (150,242) (154,449) (158,773) (163,219) (167,789 (154,0001) Travel and Per Diem - 23,700 24,364 25,046 25,747 26,468 27,209 27,971 28,754 29,559											ъ	
5 5400001 Travel and Per Diem - 23,700 24,364 25,046 25,747 26,468 27,209 27,971 28,754 29,559			,						. ,			
										(139,584)		
	29,559 30,3	28,754	27,971	27,209	26,468	25,747	25,046	24,364	23,700	-		
5 5400100 Transportation Exp 1,865		-	-	-	-	-	-	-	-			
1 5400105 Mileage-Local 184		-	-	-	-	-	-	-	-	184		5400105 Mileage-Local



Appendix B – Sewer Fund Revenue Sufficiency Analysis

riojection of Cusin Comens												one dele e
	FY 2	022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING												
52 5400110 Mileage-Out of Town		386	-	_	_	_	_	-	_	_	_	_
53 5400200 Meals/Per Diem		1,634	-	_	_	_	_	-	_	_	_	_
54 5400205 Meals-Taxable		138	-	-	-	-	-	-	-	-	-	-
55 5400300 Hotels/Motels/Lodging		4,612	-	-	-	-	-	-	-	-	-	-
56 5400900 Travel-Other		123	-	-	-	-	-	-	-	-	-	-
57 5410001 Communication Services		3,068	6,320	6,497	6,679	6,866	7,058	7,256	7,459	7,668	7,882	8,103
58 5420001 Freight		180	120	123	127	130	134	138	142	146	150	154
59 5420002 Postage		130	80	82	85	87	89	92	94	97	100	103
60 5440001 Rentals and Leases		3,313	3,950	4,061	4,174	4,291	4,411	4,535	4,662	4,792	4,927	5,064
61 5464000 Repair&Maint-Equipment		5,363	4,380	4,503	4,629	4,758	4,892	5,029	5,169	5,314	5,463	5,616
62 5470001 Printing and Binding Exp		46	390	401	412	424	436	448	460	473	486	500
63 5490001 Othr Current Chgs&Obligat		625	3,090	3,177	3,265	3,357	3,451	3,548	3,647	3,749	3,854	3,962
64 5490060 Incentives & Awards		73	-	-	-	-		-	-	-	-	-
65 5496501 Intgv Sv-Info Technology		124,380	144,960	149,019	153,191	157,481	161,890	166,423	171,083	175,873	180,798	185,860
66 5496521 Intgv Sv-Fleet-Op & Maint		14,059	1,870	1,922	1,976	2,032	2,088	2,147	2,207	2,269	2,332	2,398
67 5496901 Intgv Sv-Cost Allocate		175,260	175,260	180,167	185,212	190,398	195,729	201,209	206,843	212,635	218,589	224,709
68 5510001 Office Supplies Exp		3,259	4,740	4,873	5,009	5,149	5,294	5,442	5,594	5,751	5,912	6,077
69 5520005 Small Tools, Supp&Allow.		32	-	· <u>-</u>	· -	-		-	-	-	-	· -
70 5520006 Oper. Supplies-Clothing		571	1,000	1,028	1,057	1,086	1,117	1,148	1,180	1,213	1,247	1,282
71 5520009 Oper. Supplies-Computer		6,825	36,940	37,974	39,038	40,131	41,254	42,409	43,597	44,818	46,073	47,363
72 5520098 PC purchases under \$5,000		3,589	2,000	2,056	2,114	2,173	2,234	2,296	2,360	2,427	2,494	2,564
73 5520099 PC Purchases under \$1000		8,558	_,	_,	_,		_,	_,	_,	_,	_,	_,
74 5529000 Oper. Supplies-Misc		2,047	_	_	_	_	_	_	_	_	_	_
75 5540001 Bks,Pub,Subscrp&Membrshps		1,365	6,000	6,168	6,341	6,518	6,701	6,888	7,081	7,280	7,483	7,693
76 5550001 Training and Education Costs		6,290	19,750	20,303	20,871	21,456	22,057	22,674	23,309	23,962	24,633	25,322
77 5699981 Personal Svs-Proj-Burdng		1,460	-	-	20,07	21,100	-		-	-	,000	-
78 5699983 Op Exp-Proj-Burdening		1,844	_	_			_	_	_	_	_	_
79 5699991 Reg Salaries&Wages-Projects		3,661	_	_			_	_	_	_	_	_
80 5699992 Benefits-Projects		1,473	_			Z	_	_	_	_	_	_
81 5839000 Other Grants & Aids-Misc		-	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000	800,000
431070 - Field Services Personal Services												
82 5110001 Executive Salaries	\$	53,181 \$	84,610	\$ 87,213	\$ 89,897	\$ 92,666	\$ 95,522	\$ 98,467	\$ 101,503	\$ 104,633	\$ 107,860 \$	111,186
	φ	389,166 \$		\$ 488,066					\$ 568,040			
83 5120001 Regular Salaries & Wages 84 5140001 Overtime Pay		23,416	28,800	29,686	30,600	31,542	32,514	33,517	34,550	35,616	36,714	37,846
85 5210001 FICA Taxes		33,992	41,580	42,859	44,178	45,539	46,942	48,390	49,882	51,420	53,006	54,640
86 5220001 Retirement Contributions		51,586	65.210	67,216	69.285	71,419	73,620	75,890	78,230	80,642	83.129	85,692
87 5230001 Htth,Life,Dntl,Std,Ltd		167,619	228,010	235,024	242,258	249,719	257,415	265,352	273,535	281,969	290,664	299,627
88 5299991 Reg Salary&Wgs-Contra-Prj		(42,325)	220,010	200,024	242,250	240,710	201,410	200,002	270,000	201,303	230,004	200,021
89 5299992 Benefits-Contra-Projects		(23,707)										
90 5150001 One Time COLA Wage Disburse		(23,707)	14,500	14,946	15,406	15,881	16,370	16,875	17,395	17,931	18,484	19,054
30 3130001 One Time OOLA Wage Disburse		-	14,300	14,540	13,400	10,001	10,570	10,070	17,555	17,551	10,404	13,004
O&M Expenses												
91 5349000 Contract Services-Other	\$	22,283 \$	21,120	\$ 21,711								
92 5400001 Travel and Per Diem		-	3,810	3,917	4,026	4,139	4,255	4,374	4,497	4,622	4,752	4,885
93 5400900 Travel-Other		55	-	-	-	-	-	-	-	-	-	-
94 5410001 Communication Services		2,136	2,400	2,467	2,536	2,607	2,680	2,755	2,833	2,912	2,993	3,077
95 5420001 Freight		61	140	144	148	152	156	161	165	170	175	180
96 5420002 Postage		45	100	103	106	109	112	115	118	121	125	128
97 5433000 Utl Svc-County Water&Swr		231	960	987	1,015	1,043	1,072	1,102	1,133	1,165	1,197	1,231
98 5439000 Utility Svc-Miscellaneous		-	600	617	634	652	670	689	708	728	748	769
99 5464000 Repair&Maint-Equipment		10,771	19,200	19,738	20,290	20,858	21,442	22,043	22,660	23,294	23,947	24,617
100 5470001 Printing and Binding Exp		52	1,200	1,234	1,268	1,304	1,340	1,378	1,416	1,456	1,497	1,539
101 5496521 Intgv Sv-Fleet-Op & Maint		41,425	15,550	15,985	16,433	16,893	17,366	17,852	18,352	18,866	19,394	19,937
102 5510001 Office Supplies Exp		75	1,920	1,974	2,029	2,086	2,144	2,204	2,266	2,329	2,395	2,462
103 5520005 Small Tools, Supp&Allow.		512	3,020	3,105	3,191	3,281	3,373	3,467	3,564	3,664	3,767	3,872
104 5520006 Oper. Supplies-Clothing		2,864	3,840	3,948	4,058	4,172	4,288	4,409	4,532	4,659	4,789	4,923
105 5520009 Oper. Supplies-Computer		-	190	195	201	206	212	218	224	231	237	244
106 5520099 PC Purchases under \$1000		197	-	-	-	-	-	-	-	-	-	-
107 5529000 Oper. Supplies-Misc		4,624	4,800	4,934	5,073	5,215	5,361	5,511	5,665	5,824	5,987	6,154
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Appendix B – Sewer Fund Revenue Sufficiency Analysis

riojection of cash comons											•	ociicadic o
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING												
108 5540001 Bks,Pub,Subscrp&Membrshps		96	-	-	-	-	-	-	-	-	-	-
109 5550001 Training and Education Costs		98	4,610	4,739	4,872	5,008	5,148	5,293	5,441	5,593	5,750	5,911
110 5520098 PC purchases under \$5,000		7,040	6,960	7,155	7,355	7,561	7,773	7,991	8,214	8,444	8,681	8,924
431085 - Customer Service												
Personal Services												
111 5110001 Executive Salaries	\$	228,336		,							\$ 292,474	
112 5120001 Regular Salaries & Wages		1,041,888	1,283,950	1,323,447	1,364,183	1,406,198	1,449,533	1,494,230	1,540,305	1,587,801	1,636,761	1,687,232
113 5140001 Overtime Pay		32,644	23,040	23,749	24,480	25,234	26,011	26,813	27,640	28,492	29,371	30,277
114 5210001 FICA Taxes		93,574	113,280 179.000	116,765	120,359 190.186	124,066	127,889 202,084	131,833	135,898	140,088	144,408	148,861
115 5220001 Retirement Contributions116 5230001 Hlth, Life, Dntl, Std, Ltd		151,883 408,195	512,180	184,506 527,936	544,186	196,043	578,233	208,316 596,063	214,739 614,442	221,361 633,389	228,187 652,920	235,223
116 5230001 Hitn,Life,Dnti,Std,Ltd 117 5299991 Reg Salary&Wgs-Contra-Prj		(25,142)	512,160	527,936	544,100	560,946	5/0,233	590,063	014,442	033,369	052,920	673,053
118 5299992 Benefits-Contra-Projects		(8,465)	-	-	-	-				-		
119 5150001 One Time COLA Wage Disburse		(0,403)	32,460	33,459	34,488	35,551	36,646	37,776	38,941	40,142	41,380	42,656
119 3130001 One Time COLA Wage Disbuise			32,400	33,439	34,400	33,331	30,040	37,770	30,941	40, 142	41,300	42,030
O&M Expenses												
120 5310033 General Consulting	\$	61,803		, ,,,,,,			\$ 10,878		\$ 11,495			
121 5349000 Contract Services-Other		943,341	1,208,810	1,242,657	1,277,451	1,313,220	1,349,990	1,387,790	1,426,648	1,466,594	1,507,658	1,549,873
122 5400001 Travel and Per Diem		16,000	20,810	21,393	21,992	22,607	23,240	23,891	24560.13605	25247.81986	25954.75881	26681.49206
123 5400100 Transportation Exp		749	-	-	-		-	-	-	-	-	-
124 5400110 Mileage-Out of Town		169 440	-	-	-		-	-	-	-	-	-
125 5400200 Meals/Per Diem 126 5400300 Hotels/Motels/Lodging		996	-	-	-	-	-	-	-	-	-	-
126 5400300 Hotels/Motels/Lodging 127 5400900 Travel-Other		45	-	-			-	-	-	-	-	-
128 5410001 Communication Services		2,560	3,020	3,105	3,191	3,281	3,373	3,467	3,564	3,664	3,767	3,872
129 5420001 Freight		2,500	480	493	507	521	536	551	567	582	599	615
130 5420002 Postage		168,463	174,600	179,489	184,514	189,681	194,992	200,452	206,064	211,834	217,766	223,863
131 5440001 Rentals and Leases		644	-	-	1	14,4	-		-			
132 5464000 Repair&Maint-Equipment		169,905	150,090	154,293	158,613	163,054	167,619	172,313	177,137	182,097	187,196	192,438
133 5470001 Printing and Binding Exp		13,328	13,680	14,063	14,457	14,862	15,278	15,705	16,145	16,597	17,062	17,540
134 5490001 Othr Current Chgs&Obligat		308	260	267	275	282	290	298	307	315	324	333
135 5510001 Office Supplies Exp		781	1,440	1,480	1,522	1,564	1,608	1,653	1,700	1,747	1,796	1,846
136 5520009 Oper. Supplies-Computer		334	3,530	3,629	3,730	3,835	3,942	4,053	4,166	4,283	4,403	4,526
137 5520099 PC Purchases under \$1000		1,421					-		. .			
138 5529000 Oper. Supplies-Misc		1,722	7,680	7,895	8,116	8,343	8,577	8,817	9,064	9,318	9,579	9,847
139 5540001 Bks,Pub,Subscrp&Membrshps		1,394	2,400	2,467	2,536	2,607	2,680	2,755	2,833	2,912	2,993	3,077
140 5550001 Training and Education Costs		540	2,410	2,477	2,547	2,618	2,691	2,767	2,844	2,924	3,006	3,090
141 5520098 PC purchases under \$5,000		16,277	2,300	2,364	2,431	2,499	2,569	2,641	2,714	2,790	2,869	2,949
Capital Outlay												
142 5680100 Software-Purchased	\$	177,099	111,350	114,468	\$ 117,673	\$ 120,968	\$ 124,355	\$ 127,837	\$ 131,416	\$ 135,096	\$ 138,879	142,767
431130 - Water & Sewer Administration												
Personal Services												
143 5110001 Executive Salaries	\$	399,368							\$ 569,395		\$ 605,052	
144 5120001 Regular Salaries & Wages		104,700	94,150	97,046	100,033	103,114	106,292	109,569	112,948	116,431	120,021	123,722
145 5140001 Overtime Pay		3,663					-					
146 5210001 FICA Taxes		37,654	42,300	43,601	44,943	46,327	47,755	49,228	50,746	52,310	53,923	55,586
147 5220001 Retirement Contributions		56,963	69,870	72,019	74,236	76,522	78,881	81,313	83,820	86,405	89,069	91,816
148 5230001 Hlth,Life,Dntl,Std,Ltd		97,764	121,050	124,774	128,614	132,575	136,661	140,875	145,219	149,697	154,313	159,071
149 5299991 Reg Salary&Wgs-Contra-Prj		25,634	-	-	-	-	-	-	-	-	-	-
150 5299992 Benefits-Contra-Projects151 5150001 One Time COLA Wage Disburse		13,337	7,560	7,793	8,032	8,280	8,535	- 8,798	9,069	9,349	9,637	9,935
OSM Francisco												
O&M Expenses 152 5310033 General Consulting	\$	58,030	22,850	\$ 23,490	\$ 24,148	\$ 24,824	\$ 25,519	\$ 26,233	\$ 26,968	\$ 27,723	\$ 28,499 \$	29,297
152 5310033 General Consulting 153 5311031 Legal (Other Than Court)	φ	27,500	1,000	1,028	1,057	1,086	1,117	1,148	1,180	1,213	1,247	1,282
154 5320001 Accounting & Auditing		9,163	15,000	15,420	15,852	16,296	16,752	17,221	17,703	18,199	18,708	19,232
155 5349000 Contract Services-Other		8,446	350	360	370	380	391	402	413	425	437	449
156 5400100 Transportation Exp		2,320	-	-	-	-	-	-	- 10	-	-	-
157 5400105 Mileage-Local		32	-	-	-	-	-	-	_	-	-	_



Appendix B – Sewer Fund Revenue Sufficiency Analysis

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	FY	2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING												
158 5400110 Mileage-Out of Town		1,072										
159 5400200 Meals/Per Diem		2,522	-	-	-	-	-	-	-	-	-	-
160 5400205 Meals-Taxable		2,322	-	-	-	-	-	-	-	-	-	-
161 5400300 Hotels/Motels/Lodging		8,318	-	-	-	-	-	-	-	-	-	-
162 5400900 Travel-Other		0,310 1,115	-	-	-	-	-	-	-	-	-	-
163 5410001 Communication Services		53,785	60,000	61,680	63.407	65,182	67.008	68,884	70,813	72,795	74.834	76,929
164 5410006 Comm Svcs-Repair & Maint		-	6,300	6,476	6,658	6,844	7,036	7,233	7,435	7,644	7,858	8,078
165 5420002 Postage		3	10	10	0,030	0,044	11	7,233 11	12	12	12	13
166 5464000 Repair&Maint-Equipment		2,447	-	-	- ''	- ''	- ''	- ''	- 12	- 12	- 12	-
167 5470001 Printing and Binding Exp		683	520	535	550	565	581	597	614	631	649	667
168 5480001 Promotional Activities Exp		-	2,280	2,344	2,409	2,477	2,546	2,618	2,691	2,766	2,844	2,923
169 5490001 Othr Current Chgs&Obligat		368	480	493	507	521	536	551	567	582	599	615
170 5490060 Incentives & Awards		2,210	4.350	4,472	4,597	4,726	4,858	4,994	5,134	5,278	5,425	5.577
171 5496501 Intgv Sv-Info Technology		1,490,990	1,737,650	1,786,304	1,836,321	1,887,738	1,940,594	1,994,931	2,050,789	2,108,211	2,167,241	2.227.924
172 5496521 Intgv Sv-Fleet-Op & Maint		2,052	1,737,030	1,604	1,649	1,695	1,742	1,791	1,841	1,893	1,946	2,000
173 5496551 Intgv Sv-Risk Financing		2,042,610	1,937,120	1,991,359	2,047,117	2,104,437	2,163,361	2,223,935	2,286,205	2,350,219	2,416,025	2,483,674
174 5496901 Intgv Sv-Cost Allocate		2,100,810	2,638,810	2,712,697	2,788,652	2,866,734	2,947,003	3,029,519	3,114,346	3,201,547	3,291,191	3,383,344
175 5510001 Office Supplies Exp		1,619	4,550	4,677	4,808	4,943	5,081	5,224	5,370	5,520	5,675	5,834
176 5520006 Oper. Supplies-Clothing		1,019	70	72	74	76	78	80	83	85	3,073	90
177 5520000 Oper. Supplies-Computer		686	1,400	1,439	1,479	1,521	1,564	1,607	1,652	1,699	1,746	1,795
177 5320009 Oper: Supplies-Computer 178 5520099 PC Purchases under \$1000		2,872	1,400	1,439	1,475	1,321	1,504	1,007	1,032	1,099	1,740	1,795
179 5529000 Oper. Supplies-Misc		1,095	_				_					_
180 5540001 Bks,Pub,Subscrp&Membrshps		55,127	_									_
181 5550001 Training and Education Costs		13,744	260	267	275	282	290	298	307	315	324	333
182 5490070 Employee Celebrations & Rec		13,744	2,860	2,940	3,022	3,107	3,194	3,283	3,375	3,470	3,567	3,667
183 5520098 PC purchases under \$5,000		651	2,800	2,878	2,959	3,042	3,127	3,215	3,305	3,397	3,492	3,590
103 3320090 1 C purchases under \$3,000		031	2,000	2,070	2,355	3,042	0,127	3,213	3,303	3,337	3,432	3,330
431240 - Technical Services												
184 5120001 Regular Salaries & Wages	\$	68,993 \$	76,690	79,049	\$ 81,482 \$	83,992	86,580	\$ 89,250	\$ 92,002	\$ 94,839	\$ 97,763 \$	100,778
185 5140001 Overtime Pay	Ψ	1,662	70,000	70,040	Ψ 01,402 Ψ	- 00,002	- 00,000	Ψ 00,200	Ψ 02,002 -	φ 04,000	φ 57,700 φ	100,770
186 5210001 FICA Taxes		5,229	5,750	5,927	6,109	6,297	6,492	6,692	6,898	7,111	7,330	7,556
187 5220001 Retirement Contributions		7,831	9,010	9,287	9,573	9,868	10,172	10,486	10,809	11,142	11,486	11,840
188 5230001 Hlth,Life,Dntl,Std,Ltd		22,521	25,700	26,491	27,306	28,147	29,014	29,909	30,831	31,782	32,762	33,772
189 5299992 Benefits-Contra-Projects		(335)	25,700	20,431	27,500	20,147	23,014	23,303	-	51,702	32,702	55,772
190 5150001 One Time COLA Wage Disburse		(555)	1,620	1,670	1,721	1,774	1,829	1,885	1,943	2,003	2,065	2,129
100 0100001 Ono Timo OCET Wago Biobaroo			1,020	1,010	1,10	.,	1,020	1,000	1,010	2,000	2,000	2,120
O&M Expenses												
191 5349000 Contract Services-Other	\$	1,236 \$	27,000	27,756	\$ 28,533 \$	29,332	30,153	\$ 30,998	\$ 31,866	\$ 32,758	\$ 33,675 \$	34,618
192 5410001 Communication Services	•	361		21,100	-	- 20,002	-	-		- 02,700	- co,c.c ¢	-
193 5464000 Repair&Maint-Equipment		1,035	_		_	_	_	_	_	_	_	_
194 5529000 Oper. Supplies-Misc		34	40,000	41,120	42,271	43,455	44,672	45,923	47,208	48,530	49,889	51,286
195 5540001 Bks,Pub,Subscrp&Membrshps		-	750	771	793	815	838	861	885	910	935	962
196 5299991 Reg Salary&Wgs-Contra-Prj		(978)	-		-	-	-	-	-	-	-	-
100 020000 ritog calaryarrigo contra rij		(0.0)										
431250 - Maintenance North & South												
Personal Services												
197 5110001 Executive Salaries	\$	51,078 \$	49,630	51,157	\$ 52,731 \$	54,355	56,030	\$ 57,758	\$ 59,539	\$ 61,375	\$ 63,268 \$	65,219
198 5120001 Regular Salaries & Wages	,	1,823,940	2,174,730	2,241,629	2,310,627	2,381,791	2,455,191	2,530,898	2,608,939	2,689,387	2,772,315	2,857,801
199 5140001 Overtime Pay		230,292	188,940	194,752	200,747	206,929	213,306	219,884	226,664	233,653	240,858	248,285
200 5210001 FICA Taxes		152,892	166,100	171,210	176,479	181,915	187,521	193,303	199,264	205,408	211,742	218,271
201 5220001 Retirement Contributions		239,220	270,890	279,223	287,818	296,682	305,825	315,255	324,976	334,997	345,327	355,975
202 5230001 Hlth.Life.Dntl.Std.Ltd		681,267	865,530	892,156	919,616	947,939	977,152	1,007,283	1,038,343	1,070,360	1,103,365	1,137,388
203 5299991 Reg Salary&Wgs-Contra-Pri		(33,371)	-	-	-	-	-	-	-	-	-	-
204 5299992 Benefits-Contra-Projects		(11,102)	_	_	_	_	_	_	_	_	_	_
205 5150001 One Time COLA Wage Disburse		-	54,040	55,702	57,417	59,185	61,009	62,890	64,830	66,829	68,889	71,014
			0.,0.0	00,.02	J.,	33,.30	0.,000	32,330	0.,000	00,020	55,555	,
O&M Expenses												
206 5310001 Professional Services	\$	1,470 \$	- 9	6 -	\$ - \$	9	· -	\$ -	\$ -	\$ -	\$ - \$	_
207 5310033 General Consulting	*	41,191	19,340	19,882	20,438	21,010	21,599	22.204	22,825	23.464	24,121	24,797
208 5340003 Contract Svcs-Janitorial		9.163	10,780	11,082	11,392	11,711	12,039	12,376	12,723	13,079	13,445	13,822
209 5349000 Contract Services-Other		120,181	50,670	52,089	53,547	55,047	56,588	58,172	59,801	61,476	63,197	64,966
210 5400001 Travel and Per Diem			8,460	8,697	8,940	9,191	9,448	9,713	9,985	10,264	10,552	10,847
			-,	-,	-,	-,	-,	-,	-,5	,	-,	-,



Appendix B – Sewer Fund Revenue Sufficiency Analysis

rejection of Cash Comons												Jone Good C
	FY 20	22	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING												
211 5400100 Transportation Exp		417	_	_	_	_	_	_	_	_	_	_
212 5400110 Mileage-Out of Town		232	-	-	-	-	-	•	-	-	-	-
213 5400200 Meals/Per Diem		754		_								
214 5400205 Meals-Taxable		47		_								
215 5400300 Hotels/Motels/Lodging		2,835	-	-	-	-	-	•	-	-	-	-
216 5400900 Travel-Other		791	-	-	-	-	-	-	-	-	-	-
217 5410001 Communication Services		5,700	7,760	7,977	8,201	8,430	8,666	8,909	9.158	9,415	9,678	9,949
217 5410001 Communication Services 218 5420001 Freight		307	350	360	370	380	391	402	413	425	437	9,949 449
219 5420001 Frieight 219 5420002 Postage		87	200	206	211	217	223	230	236	243	249	256
220 5431100 Utl Svc-Elec-Generl-Power		33,375	50,414	51,826	53,277	54,768	56,302	57,878	59,499	61,165	62,878	64,638
			4,930	5,068	5,210	5,356	5,506	5,660	5,818	5,981	6,149	6,321
		5,839 52.093										
		. ,	15,980	16,427	16,887	17,360	17,846	18,346	18,860	19,388	19,931	20,489
223 5440001 Rentals and Leases		531	2,070	2,128	2,188	2,249	2,312	2,376	2,443	2,511	2,582	2,654
224 5460001 Repair&Maintenance Svcs		29,548	13,170	13,539	13,918	14,308	14,708	15,120	15,543	15,979	16,426	16,886
225 5461000 Repair&Maint-Grounds		41,508	20,920	21,506	22,108	22,727	23,363	24,017	24,690	25,381	26,092	26,823
226 5462000 Repair&Maint-Buildings		59,439	43,950	45,181	46,446	47,746	49,083	50,457	51,870	53,323	54,816	56,350
227 5463000 Repair&Maint-Wtr/Swr Line	1,	,749,863	2,700,000	2,775,600	2,853,317	2,933,210	3,015,340	3,099,769	3,186,563	3,275,786	3,367,508	3,461,799
228 5464000 Repair&Maint-Equipment		83,265	92,210	94,792	97,446	100,175	102,979	105,863	108,827	111,874	115,007	118,227
229 5470001 Printing and Binding Exp		342	710	730	750	771	793	815	838	861	886	910
230 5490001 Othr Current Chgs&Obligat		71	1,250	1,285	1,321	1,358	1,396	1,435	1,475	1,517	1,559	1,603
231 5490060 Incentives & Awards		52	470	483	497	511	525	540	555	570	586	603
232 5496521 Intgv Sv-Fleet-Op & Maint		481,326	497,890	511,831	526,162	540,895	556,040	571,609	587,614	604,067	620,981	638,368
233 5510001 Office Supplies Exp		5,359	13,080	13,446	13,823	14,210	14,608	15,017	15,437	15,869	16,314	16,770
234 5520005 Small Tools, Supp&Allow.		22,373	78,570	80,770	83,032	85,356	87,746	90,203	92,729	95,325	97,994	100,738
235 5520006 Oper. Supplies-Clothing		13,327	10,290	10,578	10,874	11,179	11,492	11,814	12,144	12,484	12,834	13,193
236 5520009 Oper. Supplies-Computer		395	970	997	1,025	1,054	1,083	1,114	1,145	1,177	1,210	1,244
237 5520098 PC purchases under \$5,000		28,442	30,870	31,734	32,623	33,536	34,475	35,441	36,433	37,453	38,502	39,580
238 5520099 PC Purchases under \$1000		2,275	-	-	-		-	-	-	-	-	-
239 5529000 Oper. Supplies-Misc		706,150	568,700	584,624	600,993	617,821	635,120	652,903	671,184	689,978	709,297	729,157
240 5540001 Bks,Pub,Subscrp&Membrshps		1,770	1,320	1,357	1,395	1,434	1,474	1,515	1,558	1,601	1,646	1,692
241 5550001 Training and Education Costs		14,788	13,390	13,765	14,150	14,547	14,954	15,373	15,803	16,245	16,700	17,168
242 5529000 Oper. Supplies-Misc		879	-		-	-	-	-	-	-	-	-
Capital Outlay												
243 5640001 Machinery And Equipment	\$	69,702	\$ 144,010	\$ 148,042	\$ 152,187	\$ 156,449	\$ 160,829	\$ 165,332 \$	169,962	\$ 174,721 \$	\$ 179,613 \$	184,642
244 5640300 Equip-Vehicle&Heavy Equip	1,	,706,434	2,178,300	2,239,292	2,301,993	2,366,448	2,432,709	2,500,825	2,570,848	2,642,832	2,716,831	2,792,902
431330 - Supervisory Control and Data Acquisit	tion (SCADA)											
Personal Services												
245 5110001 Executive Salaries	\$	163,628	\$ 167,080	\$ 172,220	\$ 177,521	\$ 182,988	\$ 188,627	\$ 194,444 \$	200,439	\$ 206,620 \$	\$ 212,991 \$	219,559
246 5120001 Regular Salaries & Wages		186,857	167,170	172,313	177,616	183,087	188,729	194,548	200,547	206,731	213,106	219,677
247 5140001 Overtime Pay		11,036	5,000	5,154	5,312	5,476	5,645	5,819	5,998	6,183	6,374	6,570
248 5210001 FICA Taxes		26,723	25,210	25,986	26,785	27,610	28,461	29,339	30,243	31,176	32,137	33,128
249 5220001 Retirement Contributions		40,064	39,520	40,736	41,990	43,283	44,617	45,992	47,411	48,873	50,380	51,933
250 5230001 Hlth,Life,Dntl,Std,Ltd		74,581	80,430	82,904	85,456	88,088	90,803	93,602	96,489	99,464	102,531	105,693
251 5299991 Reg Salary&Wgs-Contra-Prj		(6,372)	-	· -	-	· -	-	· -	-	-	-	-
252 5299992 Benefits-Contra-Projects		(1,954)	_	_	_	_	_	_	_	-	-	_
253 5150001 One Time COLA Wage Disburse		-	5,040	5,195	5,355	5,520	5,690	5,865	6,046	6,233	6,425	6,623
· · · · · · · · · · · · · · · · · · ·			-,-	.,	.,	-,-	.,	-,	.,.	.,	-,	.,.
O&M Expenses												
254 5310033 General Consulting	\$	_	\$ 150.000	\$ 154,200	\$ 158.518	\$ 162,956	\$ 167.519	\$ 172,209 \$	177,031	\$ 181,988 \$	\$ 187.084 \$	192.322
255 5349000 Contract Services-Other	•	50,807	162,000	166,536	171,199	175,993	180,920	185,986	191,194	196,547	202,051	207,708
256 5400001 Travel and Per Diem		-	2,520	2,591	2,663	2,738	2,814	2,893	2,974	3,057	3,143	3,231
257 5400100 Transportation Exp		872	2,020	2,001	2,000	2,730	2,514	_,555	2,574	-	-	5,201
258 5400300 Hotels/Motels/Lodging		371	-	-			_	-	-	_	=	_
0 0		3/ I 6	-	-	-	-	-	-	-	-	-	-
		•	27,590	20 262	20.157	20.072	20.042	21.675	22 562	22 474	24 414	25 274
260 5410001 Communication Services		30,649		28,363	29,157	29,973	30,812	31,675	32,562	33,474	34,411	35,374
261 5464000 Repair&Maint-Equipment		174,689	167,820	172,519	177,349	182,315	187,420	192,668	198,063	203,608	209,309	215,170
262 5496521 Intgv Sv-Fleet-Op & Maint		4,151	4,250	4,369	4,491	4,617	4,746	4,879	5,016	5,156	5,301	5,449
263 5510001 Office Supplies Exp		346	120	123	127	130	134	138	142	146	150	154
264 5520001 Operating Supplies Exp		16,141	-	-	-	-	-	-	-	-	-	-



Appendix B – Sewer Fund Revenue Sufficiency Analysis

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	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING 265 5520005 Small Tools, Supp&Allow. 266 5520009 Oper. Supplies-Computer 267 5520098 PC purchases under \$5,000 268 5520099 PC Purchases under \$1000	449 35,755 43,022 1,552	- 720 18,000	- 740 18,504	- 761 19,022	- 782 19,555	- 804 20,102	- 827 20,665	- 850 21,244	- 874 21,839	- 898 22,450	- 923 23,079
269 5529000 Oper. Supplies-Misc 270 5550001 Training and Education Costs 271 5400200 Meals/Per Diem 272 5400110 Mileage-Out of Town	10,099 3,027 335 146	1,200 4,680 - -	1,234 4,811 - -	1,268 4,946 - -	1,304 5,084 - -	1,340 5,227 - -	1,378 5,373 - -	1,416 5,523 - -	1,456 5,678 - -	1,497 5,837 - -	1,539 6,000 - -
Capital Outlay 273 5640001 Machinery And Equipment \$	14,862	\$ -	\$ -	\$ -	\$ - \$	5 - 5	\$ - 9	5 - 5	\$ - 9	\$ - \$	_
431335 - Utilities Data Management											
Personal Services 274 5110001 Executive Salaries \$ 275 5120001 Regular Salaries & Wages 276 5140001 Overtime Pay 277 5150001 One Time COLA Wage Disburse 278 5210001 FICA Taxes 279 5220001 Retirement Contributions 280 5230001 Hith, Life, Dntl, Std, Ltd 281 5299992 Benefits-Contra-Projects	- - - - - - - (372)	\$ 159,400 73,670 1,500 3,600 17,510 27,540 57,420	\$ 164,303 75,936 1,546 3,711 18,049 28,387 59,186	\$ 169,361 78,274 1,594 3,825 18,604 29,261 61,008	\$ 174,577 \$ 80,684	179,957 83,171 1,693 4,064 19,768 31,092 64,825	\$ 185,506 85,735 1,746 4,190 20,378 32,050 66,824 -	\$ 191,226 88,379 1,799 4,319 21,006 33,039 68,885	\$ 197,123 91,104 1,855 4,452 21,654 34,057 71,009	\$ 203,201 \$ 93,913	209,467 96,809 1,971 4,731 23,010 36,190 75,455
O&M Expenses 282 5310033 General Consulting \$ 283 5349000 Contract Services-Other 284 5400001 Travel and Per Diem 285 5410001 Communication Services 286 5510001 Office Supplies Exp 287 5520006 Oper. Supplies-Clothing 288 5520009 Oper. Supplies-Computer 289 5529000 Oper. Supplies-Misc 290 5540001 Bks,Pub,Subscrp&Membrshps 291 5550001 Training and Education Cost	- - - - - - - -	\$ 124,730 8,080 10,200 360 400 150 1,130 1,600 740 15,040	\$ 128,222 8,306 10,486 370 411 154 1,162 1,645 761 15,461	\$ 131,813 8,539 10,779 380 423 159 1,194 1,691 782 15,894	\$ 135,503 8,778 11,081 391 435 163 1,228 1,738 804 16,339	139,298 8 9,024 11,391 402 447 168 1,262 1,787 826 16,797	\$ 143,198 \$ 9,276 11,710 413 459 172 1,297 1,837 850 17,267	\$ 147,207 \$ 9,536 12,038 425 472 177 1,334 1,888 873 17,750	\$ 151,329 9,803 12,375 437 485 182 1,371 1,941 898 18,247	\$ 155,566 \$ 10,078 \$ 12,722 \$ 449 \$ 499 \$ 1,87 \$ 1,409 \$ 1,996 \$ 923 \$ 18,758 \$ 155,566 \$	159,922 10,360 13,078 462 513 192 1,449 2,051 949 19,284
Capital Outlay 292 5640001 Machinery And Equipment \$	-	\$ 9,650	\$ 9,920	\$ 10,198	\$ 10,484 \$	10,777	\$ 11,079	11,389	\$ 11,708	\$ 12,036 \$	12,373
431340 - Water Quality - Laboratory Personal Services	196,891 677,048 18,731 66,247 112,531 224,275 (4,461) (1,473)	\$ 200,580 698,480 17,000 67,660 118,830 241,690	\$ 206,750 719,967 17,523 69,741 122,485 249,125 - 15,523	\$ 213,114 742,128 18,062 71,888 126,256 256,793	\$ 219,678 \$ 764,984	226,448 788,558 19,192 76,386 134,155 272,859	\$ 233,430 \$ 812,874	240,628 837,939 20,394 81,169 142,556 289,946 - 18,067	\$ 248,048 863,778 21,023 83,672 146,952 298,887 - 18,624	\$ 255,697 \$ 890,412 21,671 86,252 151,483 308,103 - 19,198	263,581 917,869 22,340 88,912 156,154 317,604 - 19,790
O&M Expenses 302 \$310033 General Consulting \$ 303 5340003 Contract Svcs-Janitorial 304 5349000 Contract Services-Other 305 5400001 Travel and Per Diem 306 5400110 Mileage-Out of Town 307 5400200 Meals/Per Diem 308 5400300 Hotels/Motels/Lodging 309 5400900 Travel-Other 310 5410001 Communication Services 311 5420001 Freight 312 5420002 Postage	4,950 19,992 - 197 1,127 2,726 102 198 - 103	\$ 540 3,600 41,310 5,440 - - - - 560 240 30	\$ 555 3,701 42,467 5,592 - - - - - 576 247 31	\$ 571 3,804 43,656 5,749 - - - - 592 254 32	\$ 587 \$ 3,911 44,878 5,910 608 261 33	603 5 4,020 46,135 6,075 - - - - 625 268 34	\$ 620 \$ 4,133 47,426 6,245 643 276 34	637 3 4,249 48,754 6,420 - - - - 661 283 35	\$ 655 5 4,368 50,120 6,600 - - - - - 679 291 36	\$ 674 \$ 4,490 \$ 51,523 \$ 6,785 \$ - \$ - \$ - \$ 698 \$ 299 \$ 37	692 4,616 52,966 6,975 - - - 718 308 38



Appendix B – Sewer Fund Revenue Sufficiency Analysis

110	jection of cash collows											Scriedule 3
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
	FUND 4051 - SEWER OPERATING											
313	5431100 Utl Svc-Elec-Generl-Power	98,386	176,267	7 181,202	186,276	191,492	196,854	202,366	208,032	213,857	219,845	226,000
314		1,286	1,360	1,398	1,437	7 1,477	1,519	1,561	1,605	1,650	1,696	1,744
315		30,007	4,180		4,417	7 4,541	4,668	4,799	4,933	5,071	5,213	5,359
316	5462000 Repair&Maint-Buildings	2,765	7,480	7,689	7,905	8,126	8,354	8,588	8,828	9,075	9,329	9,590
317	5464000 Repair&Maint-Equipment	112,368	112,320	115,465	118,698	122,022	125,438	128,950	132,561	136,273	140,088	144,011
318	5470001 Printing and Binding Exp	4	30	31	32	2 33	34	34	35	36	37	38
319	5490001 Othr Current Chgs&Obligat	1,904	9,450	9,715	9,987	7 10,266	10,554	10,849	11,153	11,465	11,786	12,116
320	5496521 Intgv Sv-Fleet-Op & Maint	577	-	-	-	-	-	-	-	-	-	-
321	5510001 Office Supplies Exp	1,765	2,850	2,930	3,012	3,096	3,183	3,272	3,364	3,458	3,555	3,654
322	5520099 PC Purchases under \$1000	984	-	-	-	-		-	-	-	-	-
323		163,473	164,490				183,701	188,845	194,132	199,568	205,156	210,900
324	5540001 Bks,Pub,Subscrp&Membrshps	496	520				581	597	614	631	649	667
325	5550001 Training and Education Costs	6,157	4,090	4,205	4,322	2 4,443	4,568	4,696	4,827	4,962	5,101	5,244
326		1,348	-	-	-	-	-	-	-	-	-	-
327	9	54	-	-	-	-	-	-	-	-	-	-
328	·	-	200				223	230	236	243	249	256
329		-	210				235	241	248	255	262	269
330	5520098 PC purchases under \$5,000	1,264	15,300	15,728	16,169	16,622	17,087	17,565	18,057	18,563	19,083	19,617
	Capital Outlay											
331	5640001 Machinery And Equipment	\$ 22,029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	431350 - Water Quality - Monitoring											
	Personal Services											
	5110001 Executive Salaries	\$ 191,910								, ,		
333		382,126	572,740				646,603	666,541	687,094	708,281	730,121	752,634
	5140001 Overtime Pay	18,244	22,000				24,837	25,603	26,393	27,206	28,045	28,910
335		43,432	56,720				64,035	66,009	68,045	70,143	72,306	74,535
336		67,821	92,100		97,855		103,978	107,184	110,489	113,896	117,408	121,028
337	5230001 Hlth,Life,Dntl,Std,Ltd	162,316	240,160	247,548	255,167	263,026	271,132	279,492	288,111	296,995	306,153	315,593
338	, ,	(897)	-	- 1		-	-	-	-	-	-	-
339	3 , , , , ,	(19,610)	-	-	-	-	-	-	-	-	-	-
340	5299992 Benefits-Contra-Projects 5150001 One Time COLA Wage Disburse	(8,244)	14,880	15.338	15,810	16,297	16,799	- 17,317	- 17,851	18,401	18,969	- 19,554
341	3130001 One Time COLA Wage Disbuise	-	14,000	15,556	15,610	10,297	10,799	17,517	17,001	10,401	10,909	19,554
	O&M Expenses											
	5310033 General Consulting	\$ 	\$ 155,280									
343	5340003 Contract Svcs-Janitorial	3,056	3,020				3,373	3,467	3,564	3,664	3,767	3,872
344	5349000 Contract Services-Other	15,561	555,020	570,561	586,536	602,959	619,842	637,198	655,039	673,380	692,235	711,618
345		(1,086)		-	40.074	-	-	-	-	40.404	40.004	40.400
346		1,382	10,290	10,578	10,874	11,179	11,492	11,814	12,144	12,484	12,834	13,193
	5400100 Transportation Exp	39			-	-	-	-	-	-	-	-
348 349		282			-	-	-	-	-	-	-	-
350	•	1,736		-	-	-	-	-	-	-	-	-
351	5400300 Hotels/Motels/Lodging	4,858			-	-	-	-	-	-	-	-
352		209										
353	5410001 Communication Services	1,470	1,500	1,542	1,585	1,630	1,675	1,722	1.770	1,820	1,871	1,923
354		59	480				536	551	567	582	599	615
	5420002 Postage	306	800				893	918	944	971	998	1,026
356	ŭ .	1,114	1.440				1,608	1,653	1,700	1,747	1,796	1,846
357	5461000 Repair&Maint-Grounds	10,336	10.400	,	10,991		11,615	11,940	12,274	12,618	12,971	13,334
358		1,597	6,920				7,728	7,945	8,167	8,396	8,631	8,872
359	3	23,822	38,050				42,494	43,684	44,907	46,164	47,457	48,786
360		234	400				447	459	472	485	499	513
361	5480001 Promotional Activities Exp	-	560				625	643	661	679	698	718
362		_	200				223	230	236	243	249	256
363		27,607	23,940				26,736	27,485	28,254	29,045	29,859	30,695
	5510001 Office Supplies Exp	1,040	1,200				1,340	1,378	1,416	1,456	1,497	1,539
365		18	,,	,	-	-	-	-	-	-	-	-
366		884	1,440	1,480	1,522	1,564	1,608	1,653	1,700	1,747	1,796	1,846
	5520006 Oper. Supplies-Clothing	1,523	2,600				2,904	2,985	3,069	3,154	3,243	3,334
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Appendix B – Sewer Fund Revenue Sufficiency Analysis

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	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING											
368 5520009 Oper. Supplies-Computer	184	1,000	1,028	1,057	1,086	1,117	1,148	1,180	1,213	1,247	1,282
369 5520098 PC purchases under \$5,000	13,377	4,000	4,112	4,227	4,345	4,467	4,592	4,721	4,853	4,989	5,129
370 5520099 PC Purchases under \$1000	2,086	33.800	34,746	- 35.719	- 36,719	- 37.748	- 38,805	- 39.891	- 41.008	- 42,156	43.337
371 5529000 Oper. Supplies-Misc372 5540001 Bks,Pub,Subscrp&Membrshps	23,765 88	33,800	103	106	109	37,746 112	30,005	39,691	41,006	42,156 125	43,337 128
373 5550001 Training and Education Costs	2,896	4,230	4,348	4.470	4,595	4,724	4,856	4,992	5.132	5,276	5,423
374 5490060 Incentives & Awards	-	120	123	127	130	134	138	142	146	150	154
375 5550000 Training	-	680	699	719	739	759	781	803	825	848	872
Capital Outlay											
376 5640001 Machinery And Equipment	\$ -	\$ 70,000	\$ 71,960	\$ 73,975	\$ 76,046	\$ 78,175	\$ 80,364	\$ 82,615	\$ 84,928	\$ 87,306	89,750
431360 - South Operations (South Cross)											
Personal Services	6 000 000	ф оо г 100	A 070 F0F	A 000 047	¢ 000 700	000 004	A 200 004	¢ 040 400	¢ 000.045	f 222 222 4	0.40.000
377 5110001 Executive Salaries 378 5120001 Regular Salaries & Wages	\$ 239,383 2.402.652	\$ 265,430 2,842,210	\$ 273,595 2,929,642	\$ 282,017 3,019,818	\$ 290,702 \$ 3,112,824	\$ 299,661 3,208,752	\$ 308,901 3,307,695	\$ 318,426 3,409,689	\$ 328,245 3,514,828	\$ 338,366 \$ 3,623,209	348,800 3,734,933
379 5140001 Overtime Pay	409,361	360,000	371,074	382,496	394,276	406,427	418,959	431,878	445,195	458,923	473,074
380 5210001 FICA Taxes	224,310	232,900	240,065	247,454	255,075	262,936	271,043	279,401	288,017	296,898	306,053
381 5220001 Retirement Contributions	355,839	371,630	383,062	394,853	407,014	419,557	432,494	445,830	459,577	473,749	488,357
382 5230001 Hlth,Life,Dntl,Std,Ltd	748,944	1,009,410	1,040,462	1,072,487	1,105,518	1,139,587	1,174,727	1,210,950	1,248,290	1,286,782	1,326,460
383 5299991 Reg Salary&Wgs-Contra-Prj	(37,959)	-	-	-		-	-	-	-	-	-
384 5299992 Benefits-Contra-Projects	(11,149)		-	·		- · -	.	-	-		
385 5150001 One Time COLA Wage Disburse	-	63,600	65,556	67,574	69,656	71,802	74,016	76,298	78,651	81,076	83,576
O&M Expenses											
386 5310033 General Consulting	\$ 172,589		·		\$ 74,960						
387 5340003 Contract Svcs-Janitorial	55,545	84,100	86,455	88,876	91,364	93,922	96,552	99,256	102,035	104,892	107,829
388 5340005 Sludge Recycling 389 5349000 Contract Services-Other	1,234,669 760,820	1,300,000 867.600	1,336,400 891,893	1,373,819 916,866	1,412,286 942,538	1,451,830 968.929	1,492,481 996,059	1,534,271 1,023,949	1,577,230 1,052,619	1,621,393 1,082,093	1,666,792 1,112,391
390 5400001 Travel and Per Diem	700,020	12,000	12,336	12,681	13,036	13,402	13,777	14,163	14,559	14,967	15,386
391 5400100 Transportation Exp	4,824	-	-	12,001	-	-	-	-	-	-	-
392 5400105 Mileage-Local	47	-	-		-	-	-	-	-	_	-
393 5400110 Mileage-Out of Town	271	-		-	-	-	-	-	-	-	-
394 5400200 Meals/Per Diem	1,759	-	- 4		-	-	-	-	-	-	-
395 5400300 Hotels/Motels/Lodging	6,443	-	-	-	-	-	-	-	-	-	-
396 5400900 Travel-Other	313	-	7,400	-	-	-	-	-		-	-
397 5410001 Communication Services	5,484	7,200	7,402	7,609	7,822	8,041	8,266	8,498	8,735	8,980	9,231
398 5420001 Freight 399 5420002 Postage	11,088 73	3,700 250	3,804 257	3,910 264	4,020 272	4,132 279	4,248 287	4,367 295	4,489 303	4,615 312	4,744 321
400 5431100 Utl Svc-Elec-Generl-Power	2,804,405	3,640,000	3,741,920	3,846,694	3,954,401	4,065,124	4,178,948	4,295,958	4,416,245	4,539,900	4,667,017
401 5432000 Utl Svc-Municipal Wtr&Swr	29,311	37,000	38,036	39,101	40,196	41,321	42,478	43,668	44,890	46,147	47,439
402 5433000 Utl Svc-County Water&Swr	80,116	84,000	86,352	88,770	91,255	93,811	96,437	99,138	101,913	104,767	107,700
403 5439000 Utility Svc-Miscellaneous	561,009	550,000	565,400	581,231	597,506	614,236	631,434	649,115	667,290	685,974	705,181
404 5440001 Rentals and Leases	12,923	108,800	111,846	114,978	118,197	121,507	124,909	128,407	132,002	135,698	139,498
405 5461000 Repair&Maint-Grounds	176,364	199,500	205,086	210,828	216,732	222,800	229,038	235,452	242,044	248,821	255,788
406 5462000 Repair&Maint-Buildings	130,826	285,000	292,980	301,183	309,617	318,286	327,198	336,359	345,777	355,459	365,412
407 5463000 Repair&Maint-Wtr/Swr Line 408 5464000 Repair&Maint-Equipment	24,259 789,998	1,271,200	1,306,794	1,343,384	1,380,999	1,419,667	1,459,417	1,500,281	1,542,289	1,585,473	1,629,866
409 5470001 Printing and Binding Exp	1,312	3,000	3,084	3,170	3,259	3,350	3,444	3,541	3,640	3,742	3,846
410 5490001 Othr Current Chgs&Obligat	13,687	9,850	10,126	10,409	10,701	11,000	11,308	11,625	11,951	12,285	12,629
411 5490060 Incentives & Awards	1,256	-	-	-	-		,			-	-
412 5496521 Intgv Sv-Fleet-Op & Maint	520,423	636,880	654,713	673,045	691,890	711,263	731,178	751,651	772,697	794,333	816,574
413 5510001 Office Supplies Exp	7,845	16,000	16,448	16,909	17,382	17,869	18,369	18,883	19,412	19,956	20,514
414 5520001 Operating Supplies Exp	6,637	-	-	-	-	-	-	-	-	-	-
415 5520003 Oper. Supplies-Chemicals	2,920,860	3,831,200	3,938,474	4,048,751	4,162,116	4,278,655	4,398,457	4,521,614	4,648,219	4,778,370	4,912,164
416 5520005 Small Tools, Supp&Allow.	8,987	48,000	49,344	50,726	52,146	53,606	55,107	56,650	58,236	59,867	61,543
417 5520006 Oper. Supplies-Clothing	13,335	17,500	17,990	18,494	19,012	19,544	20,091	20,654	21,232	21,826	22,438
418 5520009 Oper. Supplies-Computer 419 5520098 PC purchases under \$5,000	758 21,645	8,000 30,000	8,224 30,840	8,454 31,704	8,691 32,591	8,934 33,504	9,185 34,442	9,442 35,406	9,706 36,398	9,978 37,417	10,257 38,464
419 5520098 PC purchases under \$5,000 420 5520099 PC Purchases under \$1000	21,645	30,000	30,040	31,704	32,381	33,304	34,442	33,406	30,396	31,411	30,404
421 5529000 Oper. Supplies-Misc	990,606	1,454,000	1,494,712	1,536,564	1,579,588	1,623,816	1,669,283	1,716,023	1,764,072	1,813,466	1,864,243
422 5540001 Bks,Pub,Subscrp&Membrshps	2,806	3,000	3,084	3,170	3,259	3,350	3,444	3,541	3,640	3,742	3,846
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Appendix B – Sewer Fund Revenue Sufficiency Analysis

riojection of Cusii Comons												ciicacic c
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING												
423 5550001 Training and Education Costs		13,023	40,000	41,120	42,271	43,455	44,672	45,923	47,208	48,530	49,889	51,286
424 5480001 Promotional Activities Exp		3,858	4,000	4,112	4,227	4,345	4,467	4,592	4,721	4,853	4,989	5,129
Capital Outlay												
425 5640001 Machinery And Equipment	\$	142,014	\$ 38,200	\$ 39,270	40,369	\$ 41,499	\$ 42,661	\$ 43,856	\$ 45,084	\$ 46,346	\$ 47,644 \$	48.978
426 5640300 Equip-Vehicle&Heavy Equip	Ψ	156,977	271,700	279,308	287,128	295,168	303,433	311,929	320,663	329,641	338,871	348,360
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			,	.,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,-	, .	
431370 - Water & Sewer Code Enforcement												
Personal Services	\$	13,351	\$ 25,290	\$ 26,068	\$ 26,870	\$ 27,698	\$ 28,551	\$ 29,432	\$ 30,339	\$ 31,275	\$ 32.239 \$	33,233
427 5120001 Regular Salaries & Wages 428 5140001 Overtime Pay	ý.	431	1,020	\$ 26,066 \$ 1,051	1,084	1,117	1,152	1,187	5 30,339 1,224	31,275 3 1,261	5 32,239 \$ 1,300	1,340
429 5210001 FICA Taxes		1,030	1,880	1,938	1,997	2,059	2,122	2,188	2,255	2,325	2,397	2,470
430 5220001 Retirement Contributions		1,516	2.960	3,051	3,145	3,242	3,342	3,445	3,551	3,660	3,773	3,890
431 5230001 Hlth,Life,Dntl,Std,Ltd		5,009	9,710	10,009	10,317	10,635	10,962	11,300	11,649	12,008	12,378	12,760
432 5299991 Reg Salary&Wgs-Contra-Prj		(141)	-	-	-	-	-	-	-	-	-	-
433 5299992 Benefits-Contra-Projects		(53)	-	-	-	-	-	-	-	-	-	-
434 5150001 One Time COLA Wage Disburse		-	600	618	637	657	677	698	720	742	765	788
OSM Evmanas												
O&M Expenses 435 5349000 Contract Services-Other	\$	969	\$ 3.120	\$ 3,207	3,297	\$ 3,389	\$ 3,484	\$ 3,582	\$ 3.682	\$ 3,785	\$ 3.891 \$	4,000
436 5400001 Travel and Per Diem	Ψ	-	850	φ 3,207 X	898	923	949	976	1,003	1,031	1,060	1,090
437 5410001 Communication Services		164	170	175	180	185	190	195	201	206	212	218
438 5420001 Freight		-	10	10	11	11	11	11	12	12	12	13
439 5420002 Postage		109	230	236	243	250	257	264	271	279	287	295
440 5470001 Printing and Binding Exp		45	270	278	285	293	302	310	319	328	337	346
441 5480001 Promotional Activities Exp		7	1,020	1,049	1,078	1,108	1,139	1,171	1,204	1,238	1,272	1,308
442 5496521 Intgv Sv-Fleet-Op & Maint		1,819	-	-	-	-	-	-	-	-	-	-
443 5510001 Office Supplies Exp 444 5520006 Oper, Supplies-Clothing		15	50 50	51 51	53 53	54 54	56 56	57 57	59 59	61 61	62 62	64 64
444 5520006 Oper. Supplies-Clothing 445 5520099 PC Purchases under \$1000		19 24	-	- 31	53	- 54	- 50	-	-	-	- 02	- 04
446 5529000 Oper. Supplies-Misc		171	170	175	180	185	190	195	201	206	212	218
447 5540001 Bks,Pub,Subscrp&Membrshps		(32)	-	-		-	-	-	-	-	-	-
448 5550001 Training and Education Costs		346	780	802	824	847	871	895	921	946	973	1,000
449 5520001 Operating Supplies Exp		-	70	72	74	76	78	80	83	85	87	90
450 5520098 PC purchases under \$5,000		145	570	586	602	619	637	654	673	692	711	731
435110 - Wholesale Wastewater												
O&M Expenses												
451 5340006 Swr Svcs-Treatment Charge	\$	1,438,403	\$ 1,789,000	\$ 1,839,092	1,890,587	\$ 1,943,523	\$ 1,997,942	\$ 2,053,884	\$ 2,111,393	\$ 2,170,512	\$ 2,231,286 \$	2,293,762
435120 - North Operations (Dunn)												
Personal Services 452 5110001 Executive Salaries	\$	62,252	\$ 101,290	\$ 104,406	\$ 107,620	\$ 110,934	\$ 114,353	\$ 117,879	\$ 121,514	\$ 125,261	\$ 129,123 \$	133,105
453 5120001 Regular Salaries & Wages	Ψ	1,298,846	1,487,970	1.533.743	1,580,952	1,629,643	1,679,864	1,731,663	1,785,060	1,840,103	1,896,843	1,955,333
454 5140001 Overtime Pay		167,224	120,000	123,691	127,499	131,425	135,476	139,653	143,959	148,398	152,974	157,691
455 5210001 FICA Taxes		111,602	119,160	122,826	126,606	130,506	134,527	138,676	142,952	147,360	151,903	156,588
456 5220001 Retirement Contributions		174,874	189,220	195,041	201,044	207,236	213,622	220,210	227,000	234,000	241,215	248,653
457 5230001 Hlth,Life,Dntl,Std,Ltd		386,029	514,270	530,090	546,406	563,235	580,592	598,495	616,950	635,974	655,584	675,799
458 5299991 Reg Salary&Wgs-Contra-Prj		(22,807)	-	-	-	-	-	-	-	-	-	-
459 5299992 Benefits-Contra-Projects		(7,179)	-	- 00 007	- 04 405	-	- 00 570	- 07 700	-	-	-	40.577
460 5150001 One Time COLA Wage Disburse		-	32,400	33,397	34,425	35,485	36,578	37,706	38,869	40,068	41,303	42,577
O&M Expenses												
461 5310033 General Consulting	\$			\$ 7,196								8,975
462 5340003 Contract Svcs-Janitorial		19,425	59,600	61,269	62,984	64,748	66,561	68,425	70,340	72,310	74,335	76,416
463 5340005 Sludge Recycling		616,032	495,000	508,860	523,108	537,755	552,812	568,291	584,203	600,561	617,377	634,663
464 5349000 Contract Services-Other		294,692	407,980	419,403	431,147	443,219	455,629	468,387	481,501	494,983	508,843	523,091
465 5400001 Travel and Per Diem 466 5400100 Transportation Exp		968	6,250	6,425	6,605	6,790	6,980	7,175	7,376	7,583	7,795	8,013
466 5400100 Transportation Exp 467 5400105 Mileage-Local		968 32	-	-	-	-	-	-	-	-	-	-
468 5400110 Mileage-Out of Town		199	_	_	_	_	_	_	_	_	-	-
469 5400200 Meals/Per Diem		296	-	-	-	-	-	-	-	-	-	-



Appendix B – Sewer Fund Revenue Sufficiency Analysis

riojection of Cash Collows											achedole a
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032
FUND 4051 - SEWER OPERATING											
470 5400300 Hotels/Motels/Lodging	3,030	-	-	-	_	-	_	-	-	-	-
471 5400900 Travel-Other	52	-	-	-	-	-	-	-	-	-	-
472 5410001 Communication Services	2,715	3,500	3,598	3,699	3,802	3,909	4,018	4,131	4,246	4,365	4,488
473 5420001 Freight	9,690	11,000	11,308	11,625	11,950	12,285	12,629	12,982	13,346	13,719	14,104
474 5420002 Postage	373	80	82	85	87	89	92	94	97	100	103
475 5431100 Utl Svc-Elec-Generl-Power	1,135,651	1,539,200	1,582,298	1,626,602	1,672,147	1,718,967	1,767,098	1,816,577	1,867,441	1,919,729	1,973,482
476 5432000 Utl Svc-Municipal Wtr&Swr	773	700	720	740	760	782	804	826	849	873	898
477 5433000 Utl Svc-County Water&Swr	22,618	24,000	24,672	25,363	26,073	26,803	27,554	28,325	29,118	29,933	30,772
478 5439000 Utility Svc-Miscellaneous	152,496	110,550	113,645	116,827	120,099	123,461	126,918	130,472	134,125	137,881	141,741
479 5440001 Rentals and Leases	75,296	140,200	144,126	148,161	152,310	156,574	160,958	165,465	170,098	174,861	179,757
480 5461000 Repair&Maint-Grounds	170,594	151,000	155,228	159,574	164,042	168,636	173,357	178,211	183,201	188,331	193,604
481 5462000 Repair&Maint-Buildings	23,332	128,500	132,098	135,797	139,599	143,508	147,526	151,657	155,903	160,268	164,756
482 5464000 Repair&Maint-Equipment	186,572	161,130	165,642	170,280	175,047	179,949	184,987	190,167	195,492	200,965	206,592
483 5470001 Printing and Binding Exp 484 5490001 Othr Current Chgs&Obligat	67 3,607	300 4,500	308 4,626	317 4,756	326 4,889	335 5,026	344 5,166	354 5,311	364 5,460	374 5,613	385 5,770
485 5496521 Intgv Sv-Fleet-Op & Maint	254,576	314,650	323,460	332,517	341,828	351,399	361,238	371,353	381,750	392,439	403,428
486 5510001 Office Supplies Exp	39,497	6,000	6,168	6,341	6,518	6,701	6,888	7,081	7,280	7,483	7,693
487 5520003 Oper. Supplies-Chemicals	637,125	849,650	873,440	897,897	923,038	948,883	975,451	1,002,764	1,030,841	1,059,705	1,089,377
488 5520005 Small Tools,Supp&Allow.	10,479	10,000	10,280	10,568	10,864	11,168	11,481	11,802	12,133	12,472	12,821
489 5520006 Oper. Supplies-Clothing	4,689	5,300	5,448	5,601	5,758	5,919	6,085	6,255	6,430	6,610	6,795
490 5520009 Oper. Supplies-Computer	60	550	565	581	598	614	631	649	667	686	705
491 5520099 PC Purchases under \$1000	18,086	-	-	-		_	-	-	-	-	-
492 5529000 Oper. Supplies-Misc	502,720	686,300	705,516	725,271	745,578	766,455	787,915	809,977	832,656	855,971	879,938
493 5540001 Bks,Pub,Subscrp&Membrshps	720	2,500	2,570	2,642	2,716	2,792	2,870	2,951	3,033	3,118	3,205
494 5550001 Training and Education Costs	12,281	17,500	17,990	18,494	19,012	19,544	20,091	20,654	21,232	21,826	22,438
495 5520098 PC purchases under \$5,000	6,622	19,500	20,046	20,607	21,184	21,777	22,387	23,014	23,658	24,321	25,002
Capital Outlay											
496 5640001 Machinery And Equipment	\$ 324			\$ 183,458	188,595						
497 5640300 Equip-Vehicle&Heavy Equip	207,275	460,000	472,880	486,121	499,732	513,725	528,109	542,896	558,097	573,724	589,788
435130 - Purchase of Reclaim											
O&M Expenses	¢ 00.007	¢ 00.000	00.040	04 704	00.504	A 00.504	n 04.440	. 05.400	A 00.000	n 07 447	6 00.404
498 5432010 Utl Svc-Municpl Wtr-RcImd	\$ 36,807	\$ 30,000	\$ 30,840	\$ 31,704	32,591	\$ 33,504	\$ 34,442	\$ 35,406	\$ 36,398	\$ 37,417	\$ 38,464
894051 - Emergency Events-Sewer											
Personal Services											
499 5299992 Benefits-Contra-Projects	\$ 76,937	\$	\$ -	\$ - 5		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
400 020002 Boliolia Collia i Tojoda	Ψ 70,507	Ψ		Ψ .		Ψ	Ψ	Ψ	Ψ	Ψ	Ψ
O&M Expenses											
500 5299991 Reg Salary&Wgs-Contra-Prj	\$ 228,798	\$ -	\$ -	\$ - 9	6 -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
501 5340001 Other Contractual Svcs	7,190		· .	-	_	-	-	-	-	-	-
502 5520001 Operating Supplies Exp	4,088	-	_	_	_	_	_	_	_	_	_
503 5440001 Rentals and Leases	3,095		-	-	-	-	-	-	-	-	-
504 5490001 Othr Current Chgs&Obligat	85	-	-	-	-	-	-	-	-	-	-
431470 - CIP Planning & Design											
O&M Expenses											
505 5400105 Mileage-Local	\$ 459	\$ -	\$ -	\$ - 5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
431470 - CIP Planning & Design											
Capital Outlay				•		•	•	•	•	•	•
506 5640001 Machinery And Equipment	\$ 50,524	\$ -	\$ -	\$ - 8	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
507 5470001 Printing and Binding Exp	316	-	-	-	-	-	-	-	-	-	-
404474 O											
431471 - Construction Management											
O&M Expenses	e 40.500	¢.	Ф	.		¢.	Ф	¢.	r.	¢.	¢
508 5610001 Land Costs 509 5611000 Land-Acquisition	\$ 18,500 10,291	Φ -	\$ -	\$ - 5	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
510 5620200 Building-Architect & Eng	10,291	-	-	-	-	-	-	-	-	-	-
510 3020200 Building-Architect & Eng	214	-	-	-	-	-	-	-	-	-	-



Projection of Cash Outflows																Sc	chedule 5
	FY 2022	F	FY 2023		FY 2024		FY 2025		FY 2026		FY 2027	FY 2028	FY 2029	FY 2030	FY 2031		FY 2032
FUND 4051 - SEWER OPERATING 431471 - Construction Management																	
Capital Outlay																	
511 5470001 Printing and Binding Exp	\$ 591	\$	-	\$	-	\$	-	\$	-	\$	_	\$ -	\$ -	\$ -	\$ -	\$	-
512 5400105 Mileage-Local	6		-		-		-		-		-	-	-	-	-		-
513 5640001 Machinery And Equipment	18,932		-		-		-		-		-	-	-	-	-		-
514 Personal Services	\$ 17,782,443	\$	21,954,410	\$	22,629,774	\$	23,326,326	\$	24,044,744	\$	24,785,730	\$ 25,550,008	\$ 26,337,853	\$ 27,149,992	\$ 27,987,174	\$	28,850,170
515 Operations & Maintenance	34,456,281		45,411,871		45,661,003		45,917,111		47,180,391		48,479,042	49,814,055	51,186,448	52,597,269	54,047,592		55,538,525
516 Capital Outlay	 2,567,084		3,456,810		3,553,601	_	3,653,101		3,755,388		3,860,539	3,968,634	 4,079,756	 4,193,989	4,311,421		4,432,141
517 Total Expenses	\$ 54,805,807	\$	70,823,091	\$	71,844,379	\$	72,896,539	\$	74,980,523	\$	77,125,310	\$ 79,332,697	\$ 81,604,058	\$ 83,941,250	\$ 86,346,187	\$	88,820,836
Expense Execution Factors																	
518 Personal Services	100%		95%		95%		95%		95%	4	95%	95%	95%	95%	95%		95%
519 All Other O&M Expenses 520 Capital Outlay	100% 100%		100% 100%		100% 100%		100% 100%		100% 100%		100% 100%	100% 100%	100% 100%	100% 100%	100% 100%		100% 100%
320 Capital Outlay	100 70		100 /0		100 /0		100 /0		100 %		100%	100 /6	100 70	100 /0	100 /0		100 70
Total Expenses at Execution																	
521 Personal Services	\$ 17,782,443	\$	20,856,690	\$	21,498,286	\$	22,160,010	\$	22,842,507	\$	23,546,443	\$ 24,272,508	\$ 25,020,961	\$ 25,792,493	\$ 26,587,815	\$	27,407,661
522 Operations & Maintenance	34,456,281		45,411,871		45,661,003		45,917,111		47,180,391		48,479,042	49,814,055	51,186,448	52,597,269	54,047,592		55,538,525
523 Capital Outlay	2,567,084		3,456,810		3,553,601		3,653,101		3,755,388		3,860,539	3,968,634	4,079,756	4,193,989	4,311,421		4,432,141
Total Expenses at Execution	\$ 54,805,807	\$	69,725,371	\$	70,712,890	\$	71,730,223	\$	73,778,286	\$	75,886,024	\$ 78,055,197	\$ 80,287,165	\$ 82,583,751	\$ 84,946,828	\$	87,378,327
Transfers Out																	
525 Trans To Sewer R & R	\$ 24,911,190	\$	42,143,640	\$	-	\$	34,015,599	\$	43,433,017	\$	41,344,386	\$ 39,360,535	\$ 57,045,964	\$ 54,810,645	\$ 57,802,711	\$	59,782,474
526 Total Transfers Out	\$ 24,911,190	\$	42,143,640	\$	-	\$	34,015,599	\$	43,433,017	\$	41,344,386	\$ 39,360,535	\$ 57,045,964	\$ 54,810,645	\$ 57,802,711	\$	59,782,474
Debt Service								d									
527 Series 2008A	\$ 2,194,160	\$	2,189,345	\$	2,187,988	\$	9,737,031	\$	9,736,507	\$	9,729,662	\$ 9,722,190	\$ -	\$ -	\$ -	\$	-
528 Series 2008B	5,389,245		5,390,048		5,387,646	١	- 1		-		-	-	-	-	-		-
529 Series 2016	2,026,128		2,027,372		2,028,670		-		_		_	_	_	-	-		_
530 Series 2021A	447,847			•	-	4	-		_		_	_	_	-	-		_
531 Series 2021B	111,760		111,640		111,520		111,400		112,280		112,140	112,000	111,860	111,720	111,580		5,326,440
532 Series 2022	3,941,209		4,313,310		4,328,914		4,335,804		4,347,074		4,361,666	4,370,532	4,382,731	4,396,217	4,406,965		-
533 New Debt Service	-				105,905		137,786		376,347		966,371	1,747,598	2,180,894	2,719,455	3,269,495		3,803,086
Total Debt Service	\$ 14,110,350	\$	14,031,714	\$	14,150,642	\$	14,322,021	\$	14,572,207	\$	15,169,838	\$ 15,952,320	\$ 6,675,485	\$ 7,227,392	\$ 7,788,040	\$	9,129,526
535 Total Cash Outflows	\$ 93,827,347	\$ 1	25,900,724	\$	84,863,532	\$	120,067,842	\$	131,783,510	\$	132,400,248	\$ 133,368,051	\$ 144,008,613	\$ 144,621,787	\$ 150,537,580	\$	156,290,327
		_															



Appendix B - Sewer Fund Revenue Sufficiency Analysis

Capital Improvement Program (CIP) Schedule 6 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 FY 2032 **Total Cost Projects** 000744A-Facility Miscellaneous Improvements 1,693,000 607,000 \$ 586,000 100,000 100,000 100,000 100,000 100,000 \$ - \$ - \$ \$ \$ \$ \$ \$ - \$ 000847A-South Cross Bayou Wastewater 682,000 736,000 400,000 400,000 400,000 400,000 400,000 3,418,000 Treatment Facility Upgrades and Replacement 001057A-General Upgrades to Supervisory Control 479,000 902,000 1,040,000 872,000 872,000 917,000 5,082,000 and Data Acquisition (SCADA) 002149A-Logan Laboratory Improvements 814.870 814.870 002149A-Logan Laboratory Improvements 147,000 66,000 1,942,130 1,359,000 3,514,130 002166A-South Cross Bayou Dewatering 1,600,000 5,200,000 2,700,000 590,000 10,090,000 Improvements 002937A-South Cross Bayou Aeration 560.000 1.005.000 2.250.000 3.850.000 7.665.000 Improvements 002938A-South Cross Bayou Bio Solids Process 450,000 000,008 3,300,000 4,900,000 9,450,000 Train Improvements 002941A-South Cross Bayou High Service Pump 200.000 250.000 3,000,000 3,500,000 6,950,000 Improvements 002944A-South Cross Bayou Grit Facility 8,054,000 8,054,000 Improvements 003407A-South Cross Bayou Pavement 30.000 720.000 750.000 11 Rehabilitation 003408A-South Cross Bayou Denitrification Filter 1,800,000 5,850,000 2,390,000 10,040,000 12 003408A-South Cross Bayou Denitrification Filter 13 158.000 58.000 216,000 Rehah 14 003756A-SCB Plant Lighting Upgrades 1,502,000 1,502,000 003758A-South Cross Bayou Influent Pump Station 400,000 1,300,000 15 1,300,000 3,000,000 Improvements 003759A-South Cross Bayou Operations and 16 300.000 300.000 600.000 Control Building Improvements 17 003763A-Utilities Facilities Security 90,000 24,000 32,000 100,000 100,000 100,000 100,000 546,000 003765A-Programmable Logic Controller Upgrades 2,540,000 1,339,100 5,511,100 18 1,632,000 19 004143B-Regional Resource Recovery Facility 3,000,000 ,000,000 7,000,000 004358A-South Cross Bayou Digester Gas 20 735,000 883,000 1,618,000 Flowmeter Installation 004359A-South Cross Bayou North and South 135,000 30.000 480,000 1.020.000 21 1,665,000 Train Primary Clarifier Improvements 004360A-Pump Station 016 Improvements 700,000 200,000 5,550,000 22 50,000 100,000 2,500,000 2,000,000 004368A-South Cross UV Disinfection System 23 250,000 250,000 2,500,000 2,500,000 5,500,000 Replacement 004489A-SCB Roofing replacements-Multiple 24 150,000 400,000 550,000 004574A-FDOT Utility Relocation US 19 From CR 25 7,500 7,000 4,000 252,000 250,000 100,000 250,000 870,500 95 to Pine 004575A-FDOT Utility Relocation US 19 from 26 7.500 250,000 250,000 100,000 607,500 Nebraska Av to Timberlane Rd 433797-1 004576A-FDOT Utility Relocation US 19 from 27 7.500 7,500 Timberlane Rd. to Lake St. 433796-1 28 004903A-South Cross Bayou Fiber Optic Upgrades 150.000 482.000 632.000 004904A-South Cross Bayou Pelletizer Dust 29 820,000 820,000 1,640,000 Hazard Mitigation 004905A-South Cross Bayou Reclaim Water 30 20.000 20.000 300.000 300.000 640,000 Storage Tanks Rehabilitation 004906A-South Cross Bayou Electrical Switchgear 31 120,000 120,000 1,520,000 1,520,000 1,430,000 1,400,000 6,110,000 Replacement 005220A-Utilities Generator Buildings Sprinkler 188.000 28.000 80.000 80.000 32 Installations 005221A-Pump Station 182 Rehabilitation 33 2,165,000 750,000 2,915,000 005222A-Logan Utilities Operations Center 34 229,000 1,144,000 1,372,000 1,372,000 4,117,000 Building



Cup	oital Improvement Program (CIP)												Schedule 6
	ODECOMA CANAL CANAL PARAMETER AND	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Total Cost
35	005226A-South Cross Bayou Building Hardenings for the Operations Support Center and Dewatering Building	-	-	-	238,000	123,250	-	-	-	-	-	-	361,250
36	005226A-South Cross Bayou Building Hardenings for the Operations Support Center and Dewatering Building	-	-	100,000	262,000	376,750	-	-	-	-	-	-	738,750
37	000700B-Westwinds Dr. Bridge Replacement- Utility Relocations	55,000	-	-	-	-	-	-	-	-	-	-	55,000
38	000702B-Crosswinds Dr. Bridge Replacement- Utility Relocations	24,000	-	-	-	-	-	-	-	-	-	-	24,000
39	000791A-FDOT Relocation Projects Miscellaneous	100,000	100,000	100,000	100,000	100,000	100,000	100,000	-	-	-	-	700,000
40	000831A-Water, Sewer and Reclaimed Water Relocation Projects	100,000	100,000	100,000	100,000	100,000	100,000	100,000	-	-	-	-	700,000
41	000852A-W.E. Dunn Wastewater Treatment Facility Upgrades and Repair and Replacement	978,000	550,000	500,000	500,000	500,000	500,000	500,000	-	-	-	-	4,028,000
42	000964A-Sanitary Sewer Pump Station Rehabilitation & Improvements	2,923,000	2,400,000	2,350,000	2,300,000	2,300,000	2,300,000	2,300,000	-	-	-	-	16,873,000
43	001035B-Oakwood Dr. Bridge Replacement Utility Relocations	-	133,000	-	-	-	-	-	-	-	-	-	133,000
44	001177D-Lakeshore Estates Road and Drainage Improvements Phase II Utilities Relocations	211,000	-	-	-	-	-	-	-	-	-	-	211,000
45	001333B-North Highland Avenue Water and Sewer Improvements Phase I	320,000	232,000	-	-		-	-	-	-	-	-	552,000
46 47	001523A-FDOT US19 Northside to CR95 001814A-Sanitary Sewer Manhole Rehab Project	50,000	25,000	25,000 500,000	500,000	500,000	500,000	500,000	-	-	-	-	100,000 2,500,000
48	001814C-Sanitary Sewer Manhole Rehabilitation FY22-23	-	640,000	-	300,000	-	-	-	-	-	-	-	640,000
49	001817B-Crystal Beach Water, Sewer and Reclaim Water Relocations Along Grace St., Seafford Ave., Disston St.	203,000	20,000	-		-		-	-	-	-	-	223,000
50	001933A-Sanitary Sewer Cured In Place Pipe Lining	50,000	2,050,000	2,050,000	2,050,000	2,050,000	2,050,000	2,050,000	-	-	-	-	12,350,000
51	001933D-Annual Sewer CIPP-Tarpon Springs, Palm Harbor, Curlew City	900,000	900,000	900,000			-	-	-	-	-	-	2,700,000
52	001933E-Annual Sewer CIPP-Bardmoor, Kenneth City	-	-	980,000	-	-	-	-	-	-	-	-	980,000
53	001933F-Annual Sewer CIPP-Belleair, Belleair Bluffs	950,000	1,555,000		-	-	-	-	-	-	-	-	2,505,000
54	001933G-Annual Sewer CIPP-Ridgewood, Oakhurst, Belleair Beach, N. Lake Seminole	2,583,000	2,600,000	-	-	-	-	-	-	-	-	-	5,183,000
55	002063B-Starkey Road Utility Relocation from Flame Vine Ave to Bryan Dairy Road	1,015,000	15,000	1,015,000	1,125,000	-	-	-	-	-	-	-	3,170,000
56	002069F-62nd Ave N & 25 St N. Intersection and Sidewalk Improvements Utility Relocations	-	57,000	-	-	-	-	-	-	-	-	-	57,000
57	002131B-46th Ave N Sidewalk Improvements from 49th St to 37th St Utility Relocation	-	110,000	-	-	-	-	-	-	-	-	-	110,000
58	002160A-Pump Station 016/Park Blvd Force Main to South Cross Bayou Replacement	2,796,000	900,000	-	-	-	-	-	-	-	-	-	3,696,000
59	002232B-Indian Rocks Road Sidewalk Improvements Phase 2B From Church Creek to 8th Avenue SW-Utilities Relo	60,000	-	-	-	-	-	-	-	-	-	-	60,000
60	002346B-Indian Rocks Sewer CIPP-Phase 1	-	800,000	800,000	-	-	-	-	-	-	-	-	1,600,000
61	002690B-Utility Relocation for 62nd St @ 142nd Ave Intersection Improvements	32,000	-	-	-	-	-	-	-	-	-	-	32,000
62	002747C-Sewer Interceptor Rehabilitation 94th Ave to 86th Ave	200,000	-	-	-	-	-	-	-	-	-	-	200,000
63	002747F-Sanitary Sewer Interceptor Pipe Rehabilitation-Bee Pond Road	645,800	710,000	-	-	-	-	-	-	-	-	-	1,355,800
64	002747G-Sanitary Sewer Interceptor Pipe Rehabilitation-109th St.	500,000	821,000	-	-	-	-	-	-	-	-	-	1,321,000



Page	Cap	ital Improvement Program (CIP)												Schedule 6
Part			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Total Cost
Part	65	Rehabilitation -74th Ave	250,000	340,000	-	-	-	-	-	-	-	-	-	590,000
Control Cont	66		1,000,000	1,028,000	-	-	-	-	-	-	-	-	-	2,028,000
Semente By-Pieck Canal (17 1, 175,000 1, 175	67		829,800	660,000	-	-	-	-	-	-	-	-	-	1,489,800
19 Silvenix Design & Rondowny Sprigor Part (Common Common Com	68		1,143,000	170,000	-	-	-	-	-	-	-	-	-	1,313,000
Proceedings Processing Pr	69	Sidewalk Design & Roadway Improvements From West Drainage Outfa	220,000	390,000	-	-	-	-	-	-	-	-	-	610,000
Improvements	70		167,000	-	-	-	-	-	-	-	-	-	-	167,000
150,000 150,	71		11,000,000	5,080,000	-	-	-	-	-	-	-	-	-	16,080,000
14				700,000	-	-	-		-	-	-	-	-	
Page	73	· ·	150,000	-	-	-	-	-		-	-	-	-	150,000
System Improvements	74	Force Main Improvements	44,000	-	-	-		-		-	-	-	-	44,000
77		System Improvements		-	-		3,532,000	100,000	-	-	-	-	-	
Margington Beachy Marg	76		1,150,000	30,000	351,000	1,000,000	-	-	-	-	-	-	-	2,531,000
No.	77	Redington Beach)	4,334,000	1,436,000	-	-		-	-	-	-	-	-	5,770,000
Odd Control Equipment	78	Klosterman Road and Disston	708,000	-	-				-	-	-	-	-	708,000
81		Odor Control Equipment	314,000				200,000	200,000	200,000	-	-	-	-	
2003431A-Dunn Podr Charf Replacement			-				2 000 000	-	-	-	-	-	-	
303432A-Dunn Odor Control System - 300,000 300,000				300,000			2,000,000			-				
Program throughout the County			-	-	1,000,000	-	300,000	-	-	-	-	-	-	
Rehabilitation Lansbrook Rehabilitation Replacements Reclaime Water Meters Replacement Associated Water Meters Reclaimed Water Meters Reclaimed Water Meters Reclaimed Water Meters Replacement Associated with Drainage and Replacements Replacement Associated with Drainage and Replacements Successions Reclaimed Water Meters Replacement Associated with Drainage and Replacements Successions Replacement Associated with Drainage and Replacements Successions Replacement Associated with Drainage and Replacement Successions Replacement Associated with Drainage Adulter Successions Replacement Associated Successions Replacement Associated Success	84		-	500,000	1,000,000	17,000,000	17,000,000	17,000,000	17,000,000	-	-	-	-	69,500,000
86 03746A-WED Grit Capture System Improvements	85		-	-	900,000			-	-	-	-	-	-	900,000
Improvements	86		-			200,000	1,000,000	4,600,000	-	-	-	-	-	5,800,000
88 003748A-Gulf Blvd. Relocations @ the Narrows 234,000	87		242,000	1,500,000	3,600,000	2,200,000	-	-	-	-	-	-	-	7,542,000
Rehabilitation 100,000	88	•	234,000	-	-		-	-	-	-	-	-	-	234,000
90 003760A-North County Force Main Improvements 650,000 650,000 1,150,000 4,150,000 1,350,000 7,950,000 003761A-Force Main Capacity Improvements 100,000 400,000 3,550,000 3,550,000 7,600,000 1,700,000 1	89		100,000		100,000	300,000	2,040,000	6,900,000	-	-	-	-	-	9,440,000
91 003761A-Force Main Capacity Improvements Highland Lakes FM - 100,000 400,000 3,550,000 3,550,000 7,600,000 92 003762A-Pump Stations Generator Improvements 2,183,000 2,200,000 1,700,000 1,400,000 7,600,000 93 003769A-Advanced Metering Infrastructure (AMI) Reclaimed Water Meters 003896B-Crystal Beach Utility Relocation and Replacement Associated with Drainage and Roadway Improvements 120,000 375,000 375,000	90		650,000	650,000	1,150,000	4,150,000	1,350,000		_			-	_	7,950,000
92 003762A-Pump Stations Generator Improvements 2,183,000 2,200,000 1,700,000 1,400,000 7,483,000 93 003769A-Advanced Metering Infrastructure (AMI) 2,147,000 2,442,000 3,362,000 3,341,000 1,701,000	91		-		400,000	3,550,000	3,550,000	-	-	-	-	-	-	7,600,000
Reclaimed Water Meters 2,147,000 2,442,000 3,362,000 1,701,000 12,993,000 003896B-Crystal Beach Utility Relocation and Replacement Associated with Drainage and Roadway Improvements 175,000 Roadway Improvements	92	•	2,183,000	2,200,000	1,700,000	1,400,000	-	-	-	-	-	-	-	7,483,000
94 Replacement Associated with Drainage and Replacement Associated with Drainage and Roadway Improvements 95 004354A-Pinellas Trail Loop North Segment Utility Relocations 96 004361A-WE Dunn Fall Protection Installation 97 004362A-WED Operations Building Modifications 98 004363A-Chesnut Park Managed Aquifer 1,100,000 99 004364A-Chesnut Park Managed Aquifer 1,100,000 90 004364A-Chesnut Park Aquifer Storage and 90 004364A-Chesnut Park Aquifer Storage and 90 004364A-Chesnut Park Aquifer Storage and	93		2,147,000	2,442,000	3,362,000	3,341,000	1,701,000	-	-	-	-	-	-	12,993,000
Relocations 120,000 - - - - - - - - -	94	003896B-Crystal Beach Utility Relocation and Replacement Associated with Drainage and	-	175,000	375,000	-	-	-	-	-	-	-	-	550,000
96 004361A-WE Dunn Fall Protection Installation 101,000 970,000 531,000 1,602,000 97 004362A-WED Operations Building Modifications 100,000 1,000,000 900,000 2,000,000 98 004363A-Chesnut Park Managed Aquifer 1,100,000 1,100,000 1,000,000 900,000 1,002,000 1,000,000 98 004364A-Chesnut Park Managed Aquifer 1,100,000 1,602,000 1,000,000 900,000 1,002,000 98 004363A-Chesnut Park Managed Aquifer 1,100,000 1,002,000 98 004363A-Chesnut Park Managed Aquifer 1,100,000 1,002,000 98 004363A-Chesnut Park Managed Aquifer 1,100,000	95		120,000	-	-	-	-	-	-	-	-	-	-	120,000
98 004363A-Chesnut Park Managed Aquifer Recharge Project 1,100,000 1,100,000 0 004364A-Chesnut Park Aquifer Storage and 75,000 75,000 450,000 1,500,000 580,000	96		-	-	-	_		970,000	531,000	-	-	-	-	1,602,000
Recharge Project 1,100,000	97		-	-	-	100,000	1,000,000	900,000	-	-	-	-	-	2,000,000
	98		1,100,000	-	-	-	-	-	-	-	-	-	-	1,100,000
	99		-	75,000	75,000	450,000	1,500,000	580,000	-	-	-	-	-	2,680,000



Appendix B - Sewer Fund Revenue Sufficiency Analysis

Capital Improvement Program (CIP) Schedule 6 FY 2022 FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 FY 2032 **Total Cost** 004364A-Chesnut Park Aquifer Storage and 100 75,000 75,000 450,000 1,500,000 4,369,000 6.469.000 12,938,000 Recovery System Project 101 004365A-Dunn Exploratory Well 900,000 900,000 855,000 1,550,000 2,895,000 7,100,000 004478F-Bryan Dairy at Lake Seminole Bypass 89,000 89,000 102 Canal 8-Inch F.M. Replacement 004478G-3343 Crescent Oaks Blvd Gravity Sewer 103 651,000 650,000 1,301,000 Main Replacement 004495A-72nd Terrace Gravity Sewer and 72nd 1,050,000 870,000 3,255,000 104 5,175,000 Avenue Gravity Interceptor Upgrade 004532A-CR 95 Force Main 105 949,000 50,000 999,000 Replacement/Relocation 004540B-West Bay Drive Utility Relocation and 106 256,000 150,000 406,000 Replacement 004572A-Marlin Drive Utility Relocation for City of 283.000 55,000 400.000 738,000 Belleair Bluffs Roadway Improvements 004578A-Building Hardening-General Maintenance 108 182,660 182,660 **Building South** 004578A-Building Hardening-General Maintenance 109 9,000 302,340 311,340 **Building South** 004907A-Force Main and ARV Replacements-490,000 200,000 1,250,000 2,490,000 110 550,000 20\201D Force Main Camelot Court 004908A-Force Main and ARV Replacements-3,700,000 111 250,000 250,000 4,050,000 8,250,000 30\201D Force Main Pinellas Trail and Klosterman 004909A-62nd Street North Force Main Extension 112 340.000 820.000 1,160,000 and Gravity Main Capacity Improvement 004911A-Bear Creek 14\201D Force Main 113 1,650,000 10,000 180,000 1,840,000 Replacement Project 005015A-Manufactured Home Communities 400.000 114 10,554,000 8,000,000 8,000,000 26,954,000 Wastewater Collection System Improvements 005015C-Manufactured Home Communities Wastewater Collection System Imp-Canal 200,000 800,000 600,000 300,000 1,900,000 115 Crossinas 005217A-North County Supplemental Reclaim 116 270,000 4.310,000 1,110,000 5.690.000 Water Supply 005219A-Forelock/Mistwood Force Main 117 140,000 2,000,000 2,140,000 Replacement from Lift Station 387 005225A-Find and Fix Pipe Lining and Private 5,300,000 5,100,000 5.100.000 5.100.000 4.900.000 25,500,000 118 Sewer Laterals 005229A-Pump Station 327 Rehabilitation 119 110,000 1,110,000 1,110,000 2,330,000 005582A-24 in Force Main Replacement at 53rd 120 250,000 2,500,000 2,750,000 Avenue and Duhme Rd. 005584A-Countywide Concrete Force Main 121 375,000 375,000 2,375,000 2,000,000 2,000,000 2,000,000 9,125,000 006052A-Septic to Sewer Program Phase 1 400,000 5,000,000 4,600,000 10,000,000 Unspecified Upcoming Projects¹ 18,200,000 16,855,000 19,650,000 68,236,000 124 Total CIP Budget (in current dollars) \$ 66,706,100 \$ 70,520,000 \$ 82,559,100 \$ 113,006,000 \$ 80,253,000 \$ 60,121,000 \$ 32,841,000 \$ 20,000,000 \$ 20,000,000 \$ 20,000,000 \$ 20,000,000 \$ 586.006.200 125 Escalated CIP 2 3 \$ 66,706,100 \$ 78,906,251 \$ 93,189,848 \$ 133,827,472 \$ 100,178,159 \$ 77,646,008 \$ 43,782,478 \$ 27,463,203 \$ 28,287,099 \$ 29,135,712 \$ 30,009,783 \$ 709,132,112 126 CIP Adjustment 4 (32,147,296)(42,077,996)(81,651,574) (49,672,247) (25,767,883) 7,620,239 34,329,004 35,358,874 37,512,229 127 Final CIP Funding Level \$ 33,432,430 \$ 46,758,956 \$ 51,111,852 \$ 52,175,898 \$ 50,505,912 \$ 51,878,125 \$ 51,402,717 \$ 61,792,206 \$ 63,645,973 \$ 65,555,352 \$ 67,522,012 \$ 595,781,432



¹ Unspecified future year capital expenses calculated to match PCU's forecast of \$20M per year.

² CIP escalation factor of 15% in FY 2023 and 3% annually beginning in FY 2024.

³ Escalation not applied to highlighted projects which are fully funded through ARPA, State, or other Federal grants.

⁴ Adjustment to reflect assumed annual capital spending

Pro	Forma: Projection of Annual Cashflov	w and Debt Servi	ice Covera	ge								Sc	hedule 7
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	-	FY 2032
	Operating Revenue												
	Sewer - Retail, Sewer - Wholesale And Reclaimed												
	Rate Revenue	\$ 86.867.725	\$ 86.867.725	\$ 96.083.574	\$ 100.116.748	\$ 104,341,906	\$ 108,378,860	\$ 112,619,364	\$ 115.385.662	\$ 120,194,419	\$ 125,203,662	\$	130.421.752
2	Change in Revenue From Growth	-	1,142,070	518,294	540,044	164,272	171,185	178,388	185,895	193,717	201,869		210,364
3	Subtotal	\$ 86,867,725	\$ 88,009,795	\$ 96,601,868	\$ 100,656,792	\$ 104,506,179	\$ 108,550,045	\$ 110,947,752	\$ 115,571,557	\$ 120,388,136	\$ 125,405,531	\$	130,632,116
4	Weighted Average Rate Increase	0.00%	9.17%	3.64%	3.66%	3.71%	3.75%	4.00%	4.00%	4.00%	4.00%		4.00%
5	Additional Rate Revenue From Rate Increase	-	8,073,779	3,514,880	3,685,114	3,872,681	4,069,319	4,437,910	4,622,862	4,815,525	5,016,221		5,225,285
6	Total Rate Revenue	\$ 86,867,725	\$ 96,083,574	\$ 100,116,748	\$ 104,341,906	\$ 108,378,860	\$ 112,619,364	\$ 115,385,662	\$ 120,194,419	\$ 125,203,662	\$ 130,421,752	\$	135,857,400
7	Plus: Other Operating Revenue	17,472,394	21,218,353	21,218,353	21,218,353	21,218,353	21,218,353	19,574,058	20,254,264	20,961,678	21,697,388		22,462,527
8	Equals: Total Operating Revenue	\$ 104,340,118	\$ 117,301,927	\$ 121,335,101	\$ 125,560,259	\$ 129,597,213	\$ 133,837,717	\$ 134,959,720	\$ 140,448,683	\$ 146,165,340	\$ 152,119,140	\$	158,319,928
	Less: Operating Expenses												
9	Personal Services	\$ (17,781,984)	\$ (20,856,690)	\$ (21,498,286)	\$ (22,160,010)	\$ (22,842,507)	\$ (23,546,443)	\$ (24,272,508)	\$ (25,020,961)) \$ (25,792,493)	\$ (26,587,815)	\$	(27,407,661)
	Operations & Maintenance Costs	(34,456,740)	(45,411,871)	(45,661,003)	(45,917,111)		(48,479,042)				(54,047,592)		(55,538,525)
11	Equals: Net Operating Income	\$ 52,101,395	\$ 51,033,367	\$ 54,175,812	\$ 57,483,138	\$ 59,574,316	\$ 61,812,232	\$ 60,873,158	\$ 64,241,274	\$ 67,775,578	\$ 71,483,733	\$	75,373,741
	Plus: Non-Operating Income/(Expense)												
	Interest Income	\$ 522,861	\$ 370,022	\$ 690,872	\$ 788,697	\$ 815,418	\$ 821,957	\$ 847,528	\$ 847,511	\$ 847,563	\$ 874.601	\$	904.477
	Equals: Net Income		\$ 51,403,389							\$ 68,623,142		\$	76,278,218
	Senior Lien Debt Service Coverage Test	A 50.004.050	£ 54 400 000	A 54 000 005	£ 50.074.000	2 00 000 704	6 00 004 400	04 700 000	¢ 05 000 705	A 00 000 440	A 70.050.004	•	70 070 040
	Net Income Available for Senior-Lien Debt Service	\$ 52,624,256	\$ 51,403,389	\$ 54,866,685	\$ 58,271,836	\$ 60,389,734		\$ 61,720,686	\$ 65,088,785		. , ,	\$	76,278,218
	Existing Senior-Lien Debt	14,110,350	14,031,714	14,044,737	14,184,235	14,195,861	14,203,467	14,204,721	4,494,591	4,507,937	4,518,545		5,326,440
	Cumulative New Senior Lien Debt Service (calculated)	Dem 6 44 440 250	£ 44.024.744	105,905	137,786	376,347	966,371	1,747,598	2,180,894	2,719,455	3,269,495	•	3,803,086
	Total Annual Senior-Lien Debt Service	Req. \$ 14,110,350		\$ 14,150,642	\$ 14,322,021	\$ 14,572,207	\$ 15,169,838				. , ,	\$	9,129,526
	Calculated Senior-Lien Debt Service Coverage	1.15 3.73	3.66	3.88	4.07	4.14	4.13	3.87	9.75	9.49	9.29		8.36
	Subordinate Debt Service Coverage Test	¢ 00 540 000	A 07.074.075	. 40.740.040	0 40 040 045	0 45 047 500	. 47 404 054	A 45 700 000	6 50 440 000	¢ 04 005 750	A 04 570 004	•	07.440.000
	Net Income Available for Subordinate Debt Service	 		· , , ,					. , ,	\$ 61,395,750	<u> </u>	\$	67,148,692
	Total Annual Subordinate Debt Service	Req. \$ -	\$ -	\$ -	\$ -	\$	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-
21	Calculated Subordinate Debt Service Coverage	1.15	-	-		-	-	-	-	-	-		-
	Total All-In Debt Service Coverage Test												
22	Net Income Available for Subordinate Debt Service	\$ 52,624,256	\$ 51,403,389	\$ 54,866,685	\$ 58,271,836	\$ 60,389,734	\$ 62,634,189	\$ 61,720,686	\$ 65,088,785	\$ 68,623,142	\$ 72,358,334	\$	76,278,218
23	Total Senior-Lien Debt Service	14,110,350	14,031,714	14,150,642	14,322,021	14,572,207	15,169,838	15,952,320	6,675,485	7,227,392	7,788,040		9,129,526
24	Total Annual Debt Service	\$ 14,110,350	\$ 14,031,714	\$ 14,150,642	\$ 14,322,021	\$ 14,572,207	\$ 15,169,838	\$ 15,952,320	\$ 6,675,485	\$ 7,227,392	\$ 7,788,040	\$	9,129,526
25	Calculated All-In Debt Service Coverage	3.73	3.66	3.88	4.07	4.14	4.13	3.87	9.75	9.49	9.29		8.36
	Cash Flow Test												
	Net Income Available For Debt Service	\$ 52.624.256	\$ 51,403,389	\$ 54.866.685	\$ 58.271.836	\$ 60,389,734	\$ 62,634,189	\$ 61,720,686	\$ 65,088,785	\$ 68,623,142	\$ 72,358,334	\$	76.278.218
27	Net Interfund Transfers (In - Out)	(24,911,190)	(42,143,640)	Ψ 34,000,003	(34,015,599)	(43,433,017)	(41,344,386)	(39,360,535)					(59,782,474)
28	Net Debt Service Payment	(14,110,350)	(14,031,714)	(14,150,642)	(14,322,021)	(14,572,207)	(15,169,838)						(9,129,526)
29	Capital Outlay	(2,567,084)	(3,456,810)	(3,553,601)	(3,653,101)	(3,755,388)	(3,860,539)	(3,968,634)					(4,432,141)
	Net Cash Flow	\$ 11,035,633		\$ 37,162,442								\$	2,934,077
		\$ 11,000,000	Ţ (0,220,770)	7 77,102,442	Ţ 0,201,110	+ (1,010,010)	Ţ 2,200,420	÷ 2,400,107	+ (2,112,420)	, + 2,001,110	Ţ 2,400,10Z	Ψ	_,00-,011
	Unrestricted Reserve Fund Test	Φ 05 000 005	00 407 007	0.00.400.450	6 05 004 504	e 74.040.700	£ 70.074.000	£ 70.504.055	e 74.070.450	A 70.050.000	A 74 040 440	•	77 405 044
	Balance At Beginning Of Fiscal Year	\$ 25,392,295		\$ 28,199,152		\$ 71,642,708		\$ 72,531,255		\$ 72,258,033		\$	77,105,311
32	Cash Flow Surplus/(Deficit)	11,035,633	(8,228,775)		6,281,115	(1,370,879)	2,259,426 \$ 72,531,255	2,439,197 74,970,453	(2,712,420) \$ 72,258,033		2,456,162 \$ 77,105,311	•	2,934,077
~~												\$	80,039,388
	Balance At End Of Fiscal Year	\$ 36,427,927		\$ 65,361,594	\$ 71,642,708	\$ 70,271,830		. , ,	. , ,		· , ,	Ψ	
34	Balance At End Of Fiscal Year Minimum Working Capital (O&M) Reserve Target Excess/(Deficiency) Of Working Capital To Target	66,443,447	75,287,466	\$ 65,361,594 76,794,514 \$ (11,432,920)	78,375,368	80,589,277	83,051,887	85,703,436	83,048,395	85,713,959) \$ (11,064,810)	88,455,956		91,689,075 (11,649,687)



Balance At Beginning Of Fiscal Year Sept.	Sources and Uses by Fund		5 1/ 0000		E)/ 0000		E)/ 000/		E)/ 000E		5 1/ 0000		E)/ 000E		E1/ 0000		EV 0000		5 1/ 0000	_			hedule 8
Semente Mangreening Of Fiscal Verification \$ 28,034 8 208,072 8 207,471 8 270,091 8 277,792 8 277,592 8 277,592 8 278,592 8 283,086 8 283,070 2 283,075 7 283,07			FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029		FY 2030		FY 2031		FY 2032
Substant Manual	Sewer Interest & Sinking																						
Total Armount Available For Piperios \$1,23,34 \$1,256,25 \$26,345 \$28,345 \$2	Balance At Beginning Of Fiscal Year	\$	263,343	\$	265,822	\$	267,417	\$	270,091	\$	272,792	\$	275,520	\$	278,275	\$	281,058	\$	283,869	\$	286,707	\$	289,574
Amount Projects Switchel Switc	Subtotal	\$	263,343	\$	265,822	\$	267,417	\$	270,091	\$	272,792	\$	275,520	\$	278,275	\$	281,058	\$	283,869	\$	286,707	\$	289,574
Subblaim	Total Amount Available For Projects	\$	263,343	\$	265,822	\$	267,417	\$	270,091	\$	272,792	\$	275,520	\$	278,275	\$	281,058	\$	283,869	\$	286,707	\$	289,574
Place Interest Enrings 2,480 1,595 2,674 2,700 2,728 2,755 2,755 2,815 2,8	Amount Paid For Projects		-		-				-		_		-		-				-		-		-
Balance Al End Of Fiscal Year \$ 286,822 \$ 267,417 \$ 270,091 \$ 272,792 \$ 275,520 \$ 276,520 \$ 278,075 \$ 281,088 \$ 283,869 \$ 288,070 \$ 289,574 \$ 292,47 \$ Vehicle Replacement \$ 2600,000 \$ 4,000,00	Subtotal	\$	263,343	\$	265,822	\$	267,417	\$	270,091	\$	272,792	\$	275,520	\$	278,275	\$	281,058	\$	283,869	\$	286,707	\$	289,574
Name Septement	Plus: Interest Earnings		2,480		1,595		2,674		2,701		2,728		2,755		2,783		2,811		2,839		2,867		2,896
Balance Al Eeginning Of Fiscal Year \$4,000.000 \$4,000	Balance At End Of Fiscal Year	\$	265,822	\$	267,417	\$	270,091	\$	272,792	\$	275,520	\$	278,275	\$	281,058	\$	283,869	\$	286,707	\$	289,574	\$	292,470
Subtotal \$4,000,000 \$4,00	Vehicle Replacement																						
Less: Restricted Funds	Balance At Beginning Of Fiscal Year	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000
Subbtail Substail	Subtotal	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000
Add Back Resirticided Funds 4,000,000	Less: Restricted Funds		(4,000,000))	(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000)		(4,000,000
Plus: Interest Earnings	Subtotal	\$	_	\$	-	\$	-	\$	-	\$		\$		\$	-	\$	-	\$	-	\$	-	\$	
Less: Interest Allocated To Cash Flow 37,864 24,000 40,000	Add Back: Restricted Funds		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000		4,000,000
Balance At End Of Fiscal Year S	Plus: Interest Earnings		37,664		24,000		40,000		40,000		40,000		40,000		~				40,000		40,000		40,000
Renewal & Replacement Balance At Beginning Of Fiscal Year Annual Revenues \$ 28,504,732 \$ 19,993,492 \$ 29,979,836 \$ 5,883,597 \$ 6,101,299 \$ 6,317,448 \$ 6,520,632 \$ 6,732,984 \$ 6,790,362 \$ 7,064,810 \$ 7,350,645 \$ 7,064,810	Less: Interest Allocated To Cash Flow		(37,664))	(24,000)		(40,000)		(40,000)		(40,000)		(40,000)		(40,000)		(40,000)		(40,000)	,	(40,000)		(40,000
Balance Al Beginning Of Fiscal Year Annual Revenues \$ 28,504,732 \$ 19,983,492 \$ 29,979,386 \$ 5,883,597 \$ 6,101,299 \$ 6,317,448 \$ 6,520,632 \$ 6,732,984 \$ 6,790,362 \$ 7,064,810 \$ 7,350,64	Balance At End Of Fiscal Year	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000	\$	4,000,000
Balance At Beginning Of Fiscal Year (28,504,732) \$ 19,983,492 \$ 29,979,836 \$ 5,883,597 \$ 6,101,299 \$ 6,317,448 \$ 6,520,632 \$ 6,732,984 \$ 6,790,362 \$ 7,064,810 \$ 7,350,664, 24,911,190 \$ 42,435,640 \$ 29,979,836 \$ 39,899,196 \$ 43,435,017 \$ 41,344,386 \$ 39,360,535 \$ 70,45,964 \$ 54,810,645 \$ 67,802,711 \$ 59,782,47 \$ 1,400,400 \$ 1,400	Renewal & Replacement																						
Annual Revenues	·	\$	28 504 732	\$	19 983 492	\$	29 979 836	\$	5 883 597	\$	6 101 299	S	6 317 448	\$	6 520 632	\$	6 732 984	\$	6 790 362	\$	7 064 810	\$	7,350,645
Subtotal \$ 53,415,922 \$ 62,127,132 \$ 29,979,836 \$ 39,890,196 \$ 49,534,316 \$ 47,661,834 \$ 45,881,166 \$ 63,778,947 \$ 61,601,007 \$ 64,867,521 \$ 67,133,11		Ť	-,,	Ψ	-,,	Ψ.		~	-,,	Ť		•		•	-,,	Ť		Ψ		Ψ.		Ψ.	59,782,474
Less: Restricted Funds (3,088,720) (5,243,149) (5,883,597) (6,101,299) (6,317,448) (6,520,632) (6,732,984) (6,790,362) (7,064,810) (7,350,645) (7,649,647) (7,649,		\$		\$, -,	\$	29.979.836	\$		\$		\$		\$		\$		\$		\$, ,	\$	67.133.119
Total Amount Available For Projects (33,432,430) (32,147,296) (24,096,239) (33,797,898) (43,216,868) (41,141,202) (39,148,182) (56,988,585) (54,536,197) (57,516,876) (59,483,4736) (59,483,4736) (24,096,239) (33,797,898) (43,216,868) (41,141,202) (39,148,182) (56,988,585) (54,536,197) (57,516,876) (59,483,4736		•			- , , -	•	.,,,	7		_	77.1	•	, ,		-,,	•		•	- , ,		- , ,-	•	. , , .
Amount Paid For Projects (33,432,430) (32,147,296) (24,096,239) (33,797,898) (43,216,868) (41,141,202) (39,148,182) (56,988,585) (54,536,197) (57,516,876) (59,483,452) (50,48		\$				\$		\$		\$	1 - 7	\$				\$		\$		\$		\$,
Subtotal \$ 16,894,772 \$ 24,736,687 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	•	•				•		•		Ť		•				•		•					
Add Back: Restricted Funds 3,088,720 5,243,149 5,883,597 6,101,299 6,317,448 6,520,632 6,732,984 6,790,362 7,064,810 7,350,645 7,649,66	· · · · · · · · · · · · · · · · · · ·	\$				\$	(= 1,000,000)	\$	-	\$		\$, , ,	\$		\$	-		,		
Plus: Interest Earnings	Add Back: Restricted Funds	•		_		Ž	5.883.597	Ţ	6.101.299	_	6.317.448	•		•	6.732.984	•	6.790.362	•	7.064.810	•		•	7,649,687
Less: Interest Allocated To Cash Flow (228,281) (149,890) (179,317) (69,924) (62,094) (64,190) (66,268) (67,617) (69,276) (72,077) (75,007) Balance At End Of Fiscal Year \$ 19,983,492 \$ 29,979,836 \$ 5,883,597 \$ 6,101,299 \$ 6,317,448 \$ 6,520,632 \$ 6,732,984 \$ 6,790,362 \$ 7,064,810 \$ 7,350,645 \$ 7,649,689 ARPA Balance At Beginning Of Fiscal Year \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$						7																	75,002
Balance At End Of Fiscal Year \$ 19,983,492 \$ 29,979,836 \$ 5,883,597 \$ 6,101,299 \$ 6,317,448 \$ 6,520,632 \$ 6,732,984 \$ 6,790,362 \$ 7,064,810 \$ 7,350,645 \$ 7,649,64	· ·			١							,												(75,002
Balance At Beginning Of Fiscal Year \$. \$		\$		\$		\$, ,	\$. , ,	\$		\$				\$, ,	\$		\$		\$	7,649,687
Balance At Beginning Of Fiscal Year \$	ΔRPΔ					۹																	
Annual Revenues - 3,800,000 16,050,000 9,690,000 590,000		Ф		Ф		¢		Ф		Φ		Ф		Ф	_	Φ		Ф		Ф	_	Ф	
Subtotal \$ - \$ 3,800,000 \$ 16,050,000 \$ 9,690,000 \$ 590,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 1 Total Amount Available For Projects \$ - \$ 3,800,000 \$ 16,050,000 \$ 9,690,000 \$ 590,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	• •	Ψ	_	Ψ		Ψ		Ψ		Ψ		Ψ		Ψ		Ψ		Ψ		Ψ	_	Ψ	
Total Amount Available For Projects \$ - \$ 3,800,000 \$ 16,050,000 \$ 9,690,000 \$ 590,000 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ Amount Paid For Projects - (3,800,000) (16,050,000) (9,690,000) (590,000)		Φ.		Φ.		•		¢		Φ		Φ.		Φ.		\$		Φ.		Φ.		¢	
Amount Paid For Projects - (3,800,000) (16,050,000) (9,690,000)				_		_		_		_		_		_		_		_		_		_	
Revenue Fund \$ 25,392,295 \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,37 Subtotal \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,37 Subtotal \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,311 \$ 80,039,38 Less: Restricted Funds (36,427,927) (28,199,152) (65,361,594) (71,642,708) (70,271,830) (72,531,255) 74,970,453 72,258,033 74,649,149 77,105,311 \$ 80,039,38	•	Ψ	_	Ψ				Ψ		Ψ		Ψ		Ψ		Ψ		Ψ		Ψ	_	Ψ	
Balance At Beginning Of Fiscal Year \$ 25,392,295 \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,37	· · · · · · · · · · · · · · · · · · ·	\$	-	\$, , ,		, , ,	\$	(, , ,	\$. , ,	\$		\$	-	\$		\$	-	\$	-	\$	-
Balance At Beginning Of Fiscal Year \$ 25,392,295 \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,37 Net Cash Flow 11,035,633 (8,228,775) 37,162,442 6,281,115 (1,370,879) 2,259,426 2,439,197 (2,712,420) 2,391,116 2,456,162 2,934,07 Subtotal \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 70,271,830 72,531,255 74,970,453 72,258,033 74,649,149 77,105,311 80,039,38 Less: Restricted Funds (36,427,927) (28,199,152) (65,361,594) (71,642,708) (70,271,830) (72,531,255) (74,970,453) (72,258,033) (74,649,149) (77,105,311) (80,039,38)	Povonuo Fund																						
Net Cash Flow 11,035,633 (8,228,775) 37,162,442 6,281,115 (1,370,879) 2,259,426 2,439,197 (2,712,420) 2,391,116 2,456,162 2,934,07 Subtotal \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,311 \$ 80,039,38 Less: Restricted Funds (36,427,927) (28,199,152) (65,361,594) (71,642,708) (70,271,830) (72,531,255) (74,970,453) (72,258,033) (74,649,149) (77,105,311) (80,039,38)		ф.	05 000 005	ф	20 427 007	Φ.	20 400 450	ф	CE 201 FO 1	œ.	74 040 700	Φ.	70 074 000	Ф	70 504 055	ф	74 070 450	ф	70.050.000	•	74 040 440	Φ.	77 405 044
Subtotal \$ 36,427,927 \$ 28,199,152 \$ 65,361,594 \$ 71,642,708 \$ 70,271,830 \$ 72,531,255 \$ 74,970,453 \$ 72,258,033 \$ 74,649,149 \$ 77,105,311 \$ 80,039,38 Less: Restricted Funds (36,427,927) (28,199,152) (65,361,594) (71,642,708) (70,271,830) (72,531,255) (74,970,453) (72,258,033) (74,649,149) (77,105,311) (80,039,38)		\$	-, ,	Ъ	,	\$	-,, -	Ъ		\$		Ъ		Ъ		ф	,,	Ъ		ф		Ъ	
Less: Restricted Funds (36,427,927) (28,199,152) (65,361,594) (71,642,708) (70,271,830) (72,531,255) (74,970,453) (72,258,033) (74,649,149) (77,105,311) (80,039,38)		•		_		_		_		*		_		_		_		_		_		Φ.	
		\$						\$		\$		\$				\$		\$, ,
					, , ,			_	(/1,642,708)	_		_			, , ,	_			, , ,				(80,039,388



WATER, SEWER RECLAIMED WATER RATE STUDYAppendix B – Sewer Fund Revenue Sufficiency Analysis

Sources and Uses by Fund										5	sc	hedule 8
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031		FY 2032
Add Back: Restricted Funds	36,427,927	28,199,152	65,361,594	71,642,708	70,271,830	72,531,255	74,970,453	72,258,033	74,649,149	77,105,311		80,039,388
Plus: Interest Earnings	291,048	193,881	467,804	685,022	709,573	714,015	737,509	736,142	734,536	758,772		785,723
Less: Interest Allocated To Cash Flow	(291,048)	(193,881)	(467,804)	(685,022)	(709,573)	(714,015)	(737,509)	(736,142)	(734,536)	(758,772)		(785,723)
Balance At End Of Fiscal Year	\$ 36,427,927	\$ 28,199,152	\$ 65,361,594	\$ 71,642,708	\$ 70,271,830	\$ 72,531,255	\$ 74,970,453	\$ 72,258,033	\$ 74,649,149	\$ 77,105,311	\$	80,039,388
Restricted Reserves												
Balance At Beginning Of Fiscal Year	\$ 375,150	\$	375,150									
Subtotal	\$ 375,150	\$	375,150									
Plus: Interest Earnings	3,532	2,251	3,752	3,752	3,752	3,752	3,752	3,752	3,752	3,752		3,752
Less: Interest Allocated To Cash Flow	(3,532)	(2,251)	(3,752)	(3,752)	(3,752)	(3,752)	(3,752)	(3,752)	(3,752)	(3,752)		(3,752)
Balance At End Of Fiscal Year	\$ 375,150	\$	375,150									



Projection of Capital Improv	er	nent Prog	gra	m Fundin	g	Sources								Sc	hedule 9
Final Capital Projects Funding Sources		FY 2022		FY 2023		FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031		FY 2032
Renewal & Replacement	\$	33,432,430	\$	32,147,296	\$	24,096,239	\$ 33,797,898	\$ 43,216,868	\$ 41,141,202	\$ 39,148,182	\$ 56,988,585	\$ 54,536,197	\$ 57,516,876	\$	59,483,432
Grants		-		10,811,660		8,889,870	8,688,000	2,023,250	580,000	-	-	-	-		-
ARPA		-		3,800,000		16,050,000	9,690,000	590,000	-	-	-	-	-		-
Senior-Lien Debt Proceeds		-		-		2,075,744	-	4,675,794	10,156,923	12,254,534	4,803,621	9,109,775	8,038,476		8,038,580
Total Projects Paid	\$	33,432,430	\$	46,758,956	\$	51,111,852	\$ 52,175,898	\$ 50,505,912	\$ 51,878,125	\$ 51,402,717	\$ 61,792,206	\$ 63,645,973	\$ 65,555,352	\$	67,522,012



Senior Lien Borrowing													Sc	:he	edule 10
Term (Years) Interest Rate	FY 2022 30 4.50%	FY 202 3 30 5.00%	ł	FY 2024 30 5.00%	FY 2025 30 5.00%	i	FY 2026 30 5.00%	FY 2027 30 5.00%	FY 2028 30 5.00%	FY 2 30 5.0)	FY 2030 30 5.00%	FY 2031 30 5.00%		FY 2032 30 5.00%
Sources of Funds Par Amount	\$	- \$	- \$	2,118,106	\$	-	\$ 4,771,219	\$ 10,364,207	\$ 12,504,627	\$ 4,9	01,655	\$ 9,295,689	\$ 8,202,526	\$	8,202,633
Uses of Funds	\$	- \$ - - - -	- \$ - - - -	42,362 - - - - -			95,424 - - - - -	207,284	250,093 - - - - -		03,621 98,033 - - - - -	\$ 9,109,775 185,914 - - - - -	164,051 - - - - -	\$	8,038,580 164,053 - - - - -
Total Uses 1 Year Interest	\$	- \$	- \$	105,905	\$	-	\$ 4,771,219 238,561	\$ 10,364,207 518,210	\$ 12,504,627 625,231		01,655 45,083		8,202,526 410,126	\$	8,202,633 410,132
Annual Debt Service Total Debt Service	\$	- \$	- \$ -		\$	-		\$ 674,207 20,226,196	\$ 813,444 24,403,318	\$ 3	18,860 65,791	\$ 604,698 18,140,937	533,586 16,007,583	\$	533,593 16,007,791
Cumulative New Annual Senior Lien Debt Service ¹	\$	- \$	- \$	105,905	\$ 137,7	86	\$ 376,347	\$ 966,371	\$ 1,747,598	\$ 2,1	30,894	\$ 2,719,455	\$ 3,269,495	\$	3,803,086

¹⁾ Reflects interest-only payment due in year of issuance.



Appendix B - Sewer Fund Revenue Sufficiency Analysis

Historical & Projected Sewer Volumes Schedule 11 Historical Projection FY 2021 ⁽¹⁾ FY 2022 ⁽¹⁾ Projected Sewer Sales (In 1,000 Gallons) FY 2023 FY 2024 FY 2025 FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 FY 2031 FY 2032 **Annual Growth:** 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% Retail Sewer Sales: 6,050,636 6,715,569 6,775,095 6,951,643 7,019,987 7,088,460 7,102,637 7,116,842 7,131,076 7,145,338 7,159,629 7,173,948 7,188,296 In MGD 16.58 18.40 18.56 19.05 19.23 19.42 19.46 19.50 19.54 19.58 19.62 19.65 19.69 Wholesale Sewer Sales: 1,641,200 2,386,469 1,940,326 1,944,207 1,948,095 1,951,991 1,955,895 1,959,807 1,971,589 1,975,533 1,979,484 1,963,727 1,967,654 In MGD 4.50 6.54 5.32 5.34 5.35 5.36 5.40 5.41 5.42 5.33 5.37 5.38 5.39 9,102,038 8,715,421 8,968,082 9,040,451 9,058,532 9,076,649 9,167,780 **Total Projected Sewer Sales** 7,691,836 8,895,849 9,094,803 9,112,992 9,131,218 9,149,481 24.82 Projected Sewer Sales in MGD 21.07 24.94 23.88 24.37 24.57 24.77 24.87 24.92 24.97 25.02 25.12



¹⁾ Retail and wholesale sewer sales are based upon actual sales as provided by County staff.

Appendix C – Water System Cost of Service

Appendix C WATER SYSTEM COST OF SERVICE

Schedule 1	Retail & Wholesale Cost of Service Analysis Results: Water System
Schedule 2	Cost Allocation by Customer Class & Cost Type
Schedule 3	Debt Service: Water Supply & Water Distribution
Schedule 4	Operating, Administrative & Capital Expenses: Water Supply
Schedule 5	Operating, Administrative & Capital Expenses: Water Distribution
Schedule 6	Off-setting Revenues: Water Supply & Water Distribution



Appendix C - Water System Cost of Service

RETAIL VS. WHOLESALE COST OF SERVICE ANALYSIS: WATER SYSTEM

Schedule 1

			FY 2023 TEST YEAR		FY 2019 EST YEAR
	WATER SLIDRI V				
1	WATER SUPPLY: Operating, Administrative & Capital Expenses	\$	63,135,448	\$	58,253,897
2	Debt Service	Ψ	-	Ψ	50,255,697
3	Subtotal Revenue Requirement	\$	63,135,448	\$	58,253,897
4	Off-Setting Revenues	Ψ	(865,004)	Ψ	(1,980,830)
5	Use of Reserve Funds (1)		(2,942,795)		(2,671,955)
6	Total Revenue Requirement - Water Supply	\$		\$	53,601,112
Ū	Total Horonia Hoquillonia in Mater Cappy		00,021,010	<u> </u>	
	WATER DISTRIBUTION:				
7	Operating, Administrative & Capital Expenses	\$	44,105,490	\$	33,875,524
8	Debt Service	·	-	·	-
9	Subtotal Revenue Requirement	\$	44,105,490	\$	33,875,524
10	Off-Setting Revenues		(4,837,512)		(5,319,876)
11	Use of Reserve Funds (2)		(4,487,306)		4,580,249
12	Total Revenue Requirement - Water Distribution	\$		\$	33,135,897
	COMBINED WATER SYSTEM:				
13	Operating, Administrative & Capital Expenses	\$	107,240,938	\$	92,129,421
14	Debt Service		-		
15	Subtotal Revenue Requirement	\$	107,240,938	\$	92,129,421
16	Off-Setting Revenues		(5,702,517)		(7,300,706)
17	Use of Reserve Funds		(7,430,101)		1,908,294
18	Total Revenue Requirement - Combined Water System	\$	94,108,320	\$	86,737,009
				*	
	Reallocation of Water Distribution Revenue Requirement:				
19	% of Below Ground Assets Required to Serve Wholesale (3)		37.60%		37.00%
20	Allocation to Water Supply (4)	\$	5,765,742	\$	8,784,640
	Billed Water Demands (In 1,000 gallons):	22.24		00.404	
21	Wholesale	23.2%	4,052,826	23.1%	3,702,725
22	Retail	76.8%	13,415,082	76.9%	12,346,111
00	FV 0000 O and of O and an Allegarity may		04 400 000		00 707 000
23	FY 2023 Cost of Service Allocations:	46.00/ \$		\$	86,737,009
24	Wholesale	16.0% \$ 84.0% \$, ,	16.6% \$	14,393,399
25	Retail	64.0 % \$	79,005,044	83.4% \$	72,343,610
26	FY 2023 Rate Revenues (Per FAMS):	\$	94,108,320	\$	86,737,009
20 27	Wholesale	17.1% \$		17.6% \$	
28	Retail	82.9% \$		82.4% \$	15,299,590 71,437,419
20	Retail	02.9 / 0 Φ	70,030,210	02.470 φ	71,437,419
	FY 2023 Rate Revenues per FY 2023 Cost of Service Analysis:				
29	Wholesale	\$	16,052,103	\$	15,299,590
30	Retail	\$	78,056,218	\$	71,437,419
	FY 2023 Revenue Adjustments Per Cost of Service Analysis:				
31	Wholesale	\$		\$	(906,191)
32	Retail	\$	949,426	\$	906,191
	FY 2023 Rate Adjustments to Align with Cost of Service Analys	sis:			
33	Wholesale		-5.91%		-5.92%
34	Retail		1.22%		1.27%

⁽¹⁾ Reflects the portion of unrestricted reserves necessary to fund the annual Renewal & Replacement Fund transfer allocable to Water Supply.

⁽²⁾ Reflects the portion of unrestricted reserves necessary to fund the annual Renewal & Replacement Fund transfer allocable to Water Distribution.

⁽³⁾ Wholesale allocation based on linear footage of water lines greater than 8" as a percentage of total water lines.

⁽⁴⁾ Not applicable to Renewal, Replacement, & Improvement Expenses, as the allocation of capital expenditures already included the allocation of below ground asset

Appendix C - Water System Cost of Service

RETAIL COST ALLOCATION BY CUSTOMER CLASS: WATER SYSTEM

Schedule 2

			FY 2023		WHOLESALE V	S. RET	AIL ALLOCAT	ION:		RETA	IL FIXED VS. VARIABLE	ALLOCATION:
		TE	ST YEAR (1)	RETAIL	WHOLESALE		RETAIL	WI	HOLESALE		TOTAL RETAIL	4)
											FIXED	VARIABLE
	WATER SUPPLY:										84.01%	15.99%
1	Operating, Administrative & Capital Expenses (2)	\$	63,135,448	76.80%	23.20%	\$	48,487,045	\$	14,648,403	\$	40,734,809	7,752,236
2	Debt Service			76.80%	23.20%		-		-		=	-
3	Subtotal Revenue Requirement	\$	63,135,448									
4	Off-Setting Revenues (2)		(865,004)	76.80%	23.20%		(664,310)		(200,694)		(558,098)	(106,212)
5	Use of Reserve Funds (2)		(2,942,795)	76.80%	23.20%		(2,260,021)		(682,774)		(1,898,683)	(361,338)
6	Total Revenue Requirement - Water Supply	\$	59,327,649			\$	45,562,714	\$	13,764,935	\$	38,278,028	7,284,686
	WATER DISTRIBUTION:										94.56%	5.44%
7	Operating, Administrative & Capital Expenses (3)	\$	44,105,490	96.15%	3.85%	\$	42,409,095	\$	1,696,395	\$	35,628,618	6,780,478
8	Debt Service			96.15%	3.85%		-		-		-	-
9	Subtotal Revenue Requirement	\$	44,105,490									
10	Off-Setting Revenues (3)		(4,837,512)	96.15%	3.85%		(4,651,451)		(186,061)		(3,907,765)	(743,686)
11	Use of Reserve Funds (3)		(4,487,306)	96.15%	3.85%		(4,314,715)		(172,592)		(3,624,867)	(689,848)
12	Total Revenue Requirement - Water Distribution	\$	34,780,671			\$	33,442,930	\$	1,337,742	\$	28,095,986	5,346,943
						77						
	COMBINED WATER SYSTEM:											
13	Operating, Administrative & Capital Expenses	\$	107,240,938			\$	90,896,140	\$	16,344,798	\$	76,363,426	\$ 14,532,714
14	Debt Service		-				-		-		-	-
15	Subtotal Revenue Requirement	\$	107,240,938			\$	90,896,140	\$	16,344,798	\$	76,363,426	\$ 14,532,714
	Off-Setting Revenues		(5,702,517)				(5,315,761)		(386,756)		(4,465,863)	(849,898)
17	Use of Reserve Funds		(7,430,101)				(6,574,735)		(855,366)		(5,523,549)	(1,051,186)
18	Total Revenue Requirement - Combined Water System	\$	94,108,320			\$	79,005,644	\$	15,102,676	\$	66,374,014	\$ 12,631,630
											·	

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Proposed Budget. Personnel expenses are executed at 95%, while O&M and Capital Outlay costs are executed at a 100%.

⁽²⁾ Retail and wholesale allocation of water Supply expenses is based upon projected FY 2023 billed volume shown in Schedule 1

^{(3) \$4.2}M of Water Distribution expense is allocable to all customers and allocated to retail and wholesale based on projected FY 2023 billed volume shown in Schedule 1.

⁽⁴⁾ Retail allocation of fixed and variable costs are based upon costs of each cost center, shown in Schedules 4 and 5.

Appendix C – Water System Cost of Service

DEBT SERVICE:

WATER SUPPLY & WATER DISTRIBUTION

	7 11 2 11	-						
			FY 2021 FY 2022 FY 2021 ACTUAL ACTUAL TEST Y				FY 2024 PROJECTED	YEAR ERAGE
1	TOTAL DEBT SERVICE - COMBINED WATER S	SYSTEM (1)	\$	-	-	-	-	\$ -
	Debt Service by Issue:							
	Model Calculated Debt		\$	-		-	-	\$ -
	Other Debt Service Costs		\$	-	-	-	-	\$ -
	Senior Lien Debt Service - Water Supply		\$	-	-	-	-	\$ -
	Coverage Requirement	1.00	\$	-	-	-	-	\$ -
	Senior Lien Debt Service - Water Distribution		\$		-	-	-	\$ -
	Coverage Requirement	1.00	\$		-	-	-	\$ -
}	Total Debt on Bonds		\$		-	-	-	\$ -
	Coverage Requirement	1.00	\$		-	-	-	\$ -
ľ	There is no debt service for the Pinellas County Uti	lity Water F	und					

Appendix C - Water System Cost of Service

OPERATING, ADMINISTRATIVE & CAPITAL EXPENSES: WATER SUPPLY

			FY 2021 ACTUAL		FY 2022 ACTUAL	TE	FY 2023 ST YEAR ⁽¹⁾		3-YEAR AVERAGE	FIX	(ED VS. VARIA FY 2023		E ALLOCATION: T YEAR
											\$ FIXED		\$ VAR
1	OPERATING & MAINTENANCE EXPENSES 431320 - Water Supply & Transmission (2)	e.	4 044 605	•	4 424 622	•	E E17 CC1	\$	4 704 000	\$	2 702 002	¢.	4 704 770
2	431330 - Supervisory Control and Data Acquisition (SCADA) (3)	Ъ	4,241,685 118,115	Ъ	4,434,623 138,939	Э	5,517,661 229,741	Þ	4,731,323 162,265	ф	3,792,883 172,306	Ъ	1,724,778 57,435
3	431340 - Water Quality Laboratory ⁽⁴⁾		447,335		494,582		519,022		486,980		493,760		25,262
4	431350 - Water Quality - Monitoring ⁽⁵⁾		736,058		705,103		1,003,776		814,979		493,700		1,003,776
5	431370 - Water & Sewer Code Enforcement		107,382		116,867		244,144		156,131		244,144		-
6	431415 - Land, Forestry and Wildlife		874,610		1,046,654		1,124,250		1,015,171		1,124,250		-
7	431335 - Utilities Data Management		-		(239)		480,327		160,029		480,327		-
8	Incremental AMI Costs TOTAL OPERATING & MAINTENANCE EXPENSES	\$	6,525,186	\$	6,936,528	\$	9,118,920	\$	7,526,878	\$	6,307,669	\$	2,811,251
	TAMPA BAY WATER EXPENSES:												
9		\$	41,755,633	\$	42,637,167	\$	44,726,462	\$	43,039,754	\$	37,443,451	\$	7,283,011
10		\$	41,755,633	\$	42,637,167	\$	44,726,462	\$	43,039,754	\$	37,443,451	\$	7,283,011
		•	,,	•	,,	•	,,	•	,,.	•	,,	•	1,=22,
	GENERAL & ADMINISTRATIVE EXPENSES:												
11	The state of the s	\$	1,307,724	\$	1,236,214	\$	1,129,173	\$	1,224,370	\$	1,129,173	\$	-
12 13	431050 - Utilities Engineering 431085 - Customer Service		1,967,012 3,807,330		2,179,670 3,427,928		1,292,275 4,076,884		1,812,985 3,770,714		1,292,275 4,076,884		-
14	431130 - Water & Sewer Administration		9,215,262		9,432,739		11,409,709		10,019,237		11,409,709		-
15	Data Processing Costs		-		(8,090)		-		(2,697)		-		-
16		\$	16,297,328		16,268,461		17,908,040		16,824,610	\$	17,908,040	\$	-
17	Allocation to Water Supply (7)		39.61%		39.61%		39.61%		39.61%		39.61%		39.61%
18	TOTAL GENERAL & ADMINISTRATIVE EXPENSES	\$	6,454,783	\$	6,443,350	\$	7,092,728	\$	6,663,621	\$	7,092,728	\$	•
	RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES:												
19	Water Supply & Transmission (8)			\$	19,303,551	\$	1,783,766	\$	10,543,659	\$	1,783,766		
20	TOTAL RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES	\$	-	\$	19,303,551	\$	1,783,766	\$	10,543,659	\$	1,783,766	\$	-
	IN-HOUSE COST CENTER EXPENSES:												
21 22	Admin & Business Support Cost Centers 431130 Water & Sewer Administration	¢.		\$	56,000	•		\$	18,667	e		¢.	
23		\$		•	56,000	3		2	18,667	\$		\$	
24	Allocation to Water Supply (9)	Ψ.	39.61%	- 4	39.61%	7	39.61%		39.61%	•	39.61%	*	39.61%
25		\$	-	\$	22,180	\$	-	\$	7,393	\$	-	\$	-
26	TOTAL IN-HOUSE COST CENTER EXPENSES	\$	-	\$	22,180	\$		\$	7,393	\$		\$	
	CARITAL FOLIDMENT EVENINGS.												
27	CAPITAL EQUIPMENT EXPENSES: Admin & Business Support Cost Centers												
28		\$		\$	209,491	\$	123,130	\$	110,874	\$	123,130	\$	-
29	431130 Water & Sewer Administration		-		1,208		5,200		2,136		5,200		
30	Subtotal	\$	-	47	210,699		128,330		113,010	\$	128,330	\$	-
31	Allocation to Water Supply (9)		39.61%		39.61%		39.61%		39.61%		39.61%		39.61%
32	Total Admin & Business Support Cost Centers	\$		\$	83,450	\$	50,827	\$	44,759	\$	50,827	\$	-
	Water & Sewer Cost Centers		'				47	_	40	_			
33	431320 - Water Supply & Transmission	\$	-	\$	25,447	\$	14,420	\$	13,289	\$	14,420	\$	-
34 35	431330 - Supervisory Control and Data Acquisition (SCADA) (3) 431340 - Water Quality Laboratory		5,163 8,494		9,647		3,000 70,000		5,937 26,165		3,000 70,000		-
36	431350 - Water Quality - Monitoring ⁽⁵⁾		0,494		-		171,800		57,267		171,800		-
37	431370 - Water & Sewer Code Enforcement		-		-		98,700		32,900		98,700		-
38	431335 Utilities Data Management		-		-		4,825		1,608		4,825		-
40	Incremental AMI Costs		-		-						-		
41		\$	13,657	\$	35,094	\$	362,745	\$	137,165	\$	362,745	\$	-
42	Engineering & Technical Support Cost Centers 431050 - Utilities Engineering	\$	374	\$	635	e		•	336	e		œ	
42		\$	374	Ф	635	à		_\$_	336	\$	-	\$	
44	Allocation to Water Supply (10)	¥	46.76%		46.76%		46.76%		46.76%	Ψ	46.76%	Ψ	46.76%
45		\$	175		297		-	_	157	\$	-	\$	-
46		\$	13,831	\$	118,841	\$	413,572	\$	182,081	\$	413,572	\$	-
47	TOTAL EXPENSES - WATER SUPPLY (11)	\$	E4 740 400	\$			62 425 440	\$	64 440 020	\$	53.041.187	•	10.094.261
47	TOTAL LAFENGES - WATER SUPPLIT	Ф	54,749,433	Þ	75,461,616	\$	63,135,448	•	64,448,832	Þ	33,047,78/	Þ	10,094,267

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Proposed Budget. Personnel expenses are executed at 95%, while O&M and Capital Outlay costs are executed at a 100%.
(2) Chemical portion of costs (36%) assumed to be variable.
(3) Costs assumed to be 50% allocable to Water Supply and 50% allocable to Water Distribution based on County staff direction. Costs assumed to be 75% fixed and 25% variable based on County staff (4) Electric power portion of costs (7%) assumed to be variable.
(5) Costs assumed to be 50% allocable to Water Supply and 50% allocable to Water Distribution based on County staff direction.
(6) Tampa Bay Water expense based on expense projections used in Revenue Sufficiency Analysis.
(7) Based upon the 3-year average of Operating & Maintenance Expenses and In-House Cost Center Expenses directly assignable to Water Supply.

(8) Based upon the 3-year average of Operating & Maintenance Expenses and In-House Cost Center Expenses directly assignable to Water Supply.

⁽⁸⁾ Based upon allocation of capital expenditures by function as provided by County staff. FY 2021 not provided.

⁽⁹⁾ Based upon the annual allocations of General & Administrative Expenses to Water Supply.
(10) Based upon the 3-year average of Renewal, Replacement, & Improvement Project Expenses directly assignable to Water Supply.

⁽¹¹⁾ Total FY 2021 expenses excludes RR&I projects (allocations not provided)

Appendix C - Water System Cost of Service

OPERATING, ADMINISTRATIVE & CAPITAL EXPENSES: WATER DISTRIBUTION

		F	Y 2021		FY 2022		FY 2023		3-YEAR		FIXED V ALLOCATIO		ARIABLE
		Α	CTUAL		ACTUAL	ΤE	ST YEAR (1)		AVERAGE			ΈΑF	
											\$ FIXED		\$ VAR
1	OPERATING & MAINTENANCE EXPENSES 431070 - Field Services	\$	784.050	¢.	813,110	¢.	1,337,855	\$	978,338	\$	_	¢.	1,337,855
2	431240 - Technical Services	-	3,113,969	Э	3,533,950	Ъ	3,568,117	ф	3,405,345	ф	3,568,117	\$	1,337,855
3	431250 - Maintenance North & South (2)		5,057,302		5,935,349		6,491,077		5,827,909		6,491,077		_
4	431330 - Supervisory Control and Data Acquisition (SCADA) (3)		118,115		138,939		229,741		162,265		172,306		57,435
5	431350 - Water Quality - Monitoring (4)		736,058		705,103		1,003,776		814,979		-		1,003,776
6	431335 - Utilities Data Management		-		(239)		480,327		160,029		480,327		-
7	TOTAL OPERATING & MAINTENANCE EXPENSES	\$	9,809,494	\$	11,126,212	\$	13,110,892	\$	11,348,866	\$	10,711,826	\$	2,399,066
	GENERAL & ADMINISTRATIVE EXPENSES:												
8	To To To Training and Support		1,307,724	\$	1,236,214	\$	1,129,173	\$	1,224,370	\$	1,129,173	\$	-
9	431050 - Utilities Engineering		1,967,012		2,179,670		1,292,275		1,812,985		1,292,275		-
10 11	431085 - Customer Service 431130 - Water & Sewer Administration		3,807,330 9,215,262		3,427,928 9,432,739		4,076,884 11,409,709		3,770,714 10,019,237		4,076,884 11,409,709		-
12			9,215,202		(8,090)		11,409,709		(2,697)		11,409,709		-
		\$ 1	16,297,328	\$	16,268,461	\$	17,908,040	\$	16,824,610	\$	17,908,040	\$	-
14	Allocation to Water Distribution (5)		60.39%		60.39%		60.39%		60.39%		60.39%		60.39%
15		\$	9,842,545	\$	9,825,111	\$	10,815,312	\$	10,160,989	\$	10,815,312	\$	-
	Data Processing Costs TOTAL GENERAL & ADMINISTRATIVE EXPENSES	\$	9,842,545	\$	8,090 9,833,201	\$	10,815,312	\$	2,697 10,163,686	\$	10,815,312	\$	
	RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES:												
18	Water Distribution (6)			\$	16,573,538	\$	19,445,273	\$	18,009,405	\$	19,445,273	\$	_
19		\$	-	\$	16,573,538	\$	19,445,273	\$	12,006,270	\$		\$	-
-00	IN-HOUSE COST CENTER EXPENSES:	•		•	50.000			•	40.007	•		•	
21		\$ \$		\$	56,000 56,000	\$	_	\$	18,667 18,667	\$		\$	 -
22	(7)	Ψ	60.39%	Ψ	60.39%	Ψ	60.39%	Ψ	60.39%	Ψ	60.39%	Ψ	60.39%
23		\$	-	\$	33,820	\$		\$	11,273	-\$	-	\$	-
24	431250 Maintenance North & South	\$	_	\$	385,370	\$	_	\$	128,457	\$	_	\$	_
25		\$	-	\$	385,370	\$	-	\$	128,457	\$	-	\$	-
26	TOTAL IN-HOUSE COST CENTER EXPENSES	\$		\$	419,190	\$		\$	139,730	-\$		\$	
			_						,				
07	CAPITAL EQUIPMENT EXPENSES:	\$		•	000 404		100 100	•	440.074	•	100 100	•	
27	431085 - Customer Service Substitution Service Substitution Service Substitution Service Substitution Substit	\$		\$	209,491 1,208	\$	123,130 5,200	\$	110,874 2,136	\$	123,130 5,200	\$	-
		\$	1	\$	210,699	\$	128,330	\$	113,010	\$		\$	
	Allocation to Water Distribution (7)	•	60.39%	Ť	60.39%	▶	60.39%	Ť	60.39%	•	60.39%	•	60.39%
31	Total Admin & Business Support Cost Centers	\$	- V	\$	127,249	\$	77,503	\$	68,251	\$		\$	-
	Water & Sewer Cost Centers												
32		\$	16,212	\$	50,984	\$	152,400	\$	73,199	\$	152,400	\$	-
	431240 Technical Services		7,370		84,753		200,710		97,611		200,710		-
	431250 Maintenance North & South		290,213		121,259		45,220		152,231		45,220		-
35			5,163		9,647		3,000		5,937		3,000		-
36	431350 - Water Quality - Monitoring (4) 431335 Utilities Data Management		-		-		171,800 4,825		57,267 1,608		171,800 4,825		-
	Incremental AMI Costs		-		-		78,555		26,185		78,555		
		\$	318,957	\$	266,644	\$	656,510	\$	414,037	\$	656,510	\$	
	Engineering & Technical Support Cost Centers		*	•		•			,	•			
40		\$	374	\$	635	\$		\$	252	\$		\$	
41	Subtotal	\$	374	\$	635	\$	-	\$	336	\$	-	\$	-
	Allocation to Water Distribution (8)		53.24%		53.24%		53.24%		53.24%		53.24%		53.24%
43		\$	199	\$	338	\$	-	\$	179	\$		\$	-
44	TOTAL CAPITAL EQUIPMENT EXPENSES	\$	319,156	\$	394,231	\$	734,013	\$	482,467	\$	734,013	\$	-
45	TOTAL EXPENSES - WATER DISTRIBUTION (9)	\$ 1	19,971,195	\$	38,346,372	\$	44,105,490	\$	41,225,931	\$	41,706,424	\$	2,399,066

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Budget and adjustments included in the Revenue Sufficiency Analysis. Personnel expenses are executed at 95%, while O&M and Capital Outlay costs are executed at a 100%.

⁽²⁾ Electric power portion of costs (7%) assumed to be variable.

⁽³⁾ Costs assumed to be 50% allocable to Water Supply and 50% allocable to Water Distribution based on County staff direction. Costs assumed to be 75% fixed and 25% variable based on County

⁽⁴⁾ Costs assumed to be 50% allocable to Water Supply and 50% allocable to Water Distribution based on County staff direction.
(5) Based upon the 3-year average of Operating & Maintenance Expenses and In-House Cost Center Expenses directly assignable to Water Distribution.

⁽⁶⁾ Based upon allocation of capital expenditures by function as provided by County staff. FY 2021 not provided. (7) Based upon the annual allocations of General & Administrative Expenses to Water Distribution.

⁽⁸⁾ Based upon the 3-year average of Renewal, Replacement, & Improvement Project Expenses directly assignable to Water Distribution.

⁽⁹⁾ Total FY 2021 expenses excludes RR&I projects (allocations not provided).

Appendix C - Water System Cost of Service

OFF-SETTING REVENUES: WATER SUPPLY & WATER DISTRIBUTION

Schedule 6

			FY 2021	FY 2022	FY 2023		3-YEAR
			ACTUAL	ACTUAL	TEST YEAR	F	VERAGE
	OFF-SETTING REVENUES - WATER SUPPLY:						
	Interest Income - O & M and R & R						
1	3611210 Interest-Cash Pools		3,848	_	_		\$1,283
2	3611991 Other Interest Earnings		118,131	_	_		39,377
3	3611700 Interest - LGIP & Public Funds D		35,619	_	_		11,873
4	3611800 Interest-Securities		857,173	_	_		285,724
5	Interest - Unrestricted Funds		-	785.903	406,559		533,405
6	Subtotal	\$	226,966	785,903	406,559	\$	473,143
7	Allocation to Water Supply (1)	Ψ	•	•	,	Ψ	•
, 8	Total Interest Income - O & M and R & R	\$	60.99% 138,422	60.99% 479,306	60.99% 247,952	\$	60.99% 288,560
0	Total interest income - O & M and R & R	Ф	130,422	479,306	247,952	Ф	200,000
9	3650001 Forestry Operations - Sales	\$	811,294	\$ 567,200	\$ 597,053	\$	658,515
10	3433122 Wholesale Water Meter SC		19,272	19,000	20,000		19,424
11	Total Other Operating Revenue	\$	830,566	586,200	617,053	\$	677,939
12	TOTAL OFF-SETTING REVENUES - WATER SUPPLY	\$	968,988	1,065,506	865,004	\$	966,499
	OFF-SETTING REVENUES - WATER DISTRIBUTION:						
13	Allocation to Water Distribution (2)		39.01%	39.01%	39.01%		20.01%
14	Total Interest Income - O & M and R & R	\$				\$	39.01%
14	Total interest income - O & M and R & R	Ф	88,544	306,597	158,607	Ф	184,583
15	3433120 Service Charges	\$	1,072,451	\$ 997,500	\$ 1,060,505	\$	1,043,485
16	3433121 Water - Late Payment Fee		623,239	570,000	600,000		597,746
17	3433123 Backflow Maint Fee-Sap	4	703,096	712,500	750,000		721,865
18	3433130 Fireline Payments		201,913	209,000	220,000		210,304
19	3433150 Contractual Billing Svc		406,626	408,500	430,000		415,042
20	3433302 Water Conservation		451,101	342,000	385,000		392,700
	3433501 Wellhead Protection		450	380	400		410
	3490010 Chg For Sv-Bad Dbt Ex(Dr)	7	146,928	<u>-</u>	-		48,976
	3621008 Rents - Bldg/Space		355,101	351,500	370,000		358,867
24	3644100 Sale Of Surplus Equipment		86,817	57,000	57,000		66,939
25	3644200 Ins Proceeds-Furn/Fxtr/Eq		15,896	9,500	16,000		13,799
	3650003 Sale-Scrap		1,877	-	-		626
27	3699213 ISI-CC Trans Rev-SAP		49,593	42,750	45,000		45,781
28	3699350 Refund Of Prior Yrs Exp	,	2,531	-	-		844
29	3699991 Miscellaneous Revenue		46,277	28,500	30,000		34,926
	3699001 Records Request Reimbursement		15	-	-		5
31	3313901 Fed Grant-Other Physical Environ		-	33,000	35,000		22,667
32	3815001 Transfer from BTS		-	7,830	-		2,610
33	3898331 Cap Con-Pvt-Wtr Back Flow		123,570	125,334	130,000		126,301
34	3898332 Cap Con-Pvt-Wtr Connectn		601,532	580,080	550,000		577,204
35	3699324 Reimb Other Govt Agencies		29,700	-	<u>-</u>		7,425
36	Total Other Operating Revenue	\$	4,769,883	4,475,374	4,678,905	\$	4,641,388
37	TOTAL OFF-SETTING REVENUES - WATER DISTRIBUTION	\$	4,858,427	4,781,972	4,837,512	\$	4,825,970
20	TOTAL OFF-SETTING REVENUES - COMBINED WATER SYSTEM	•	E 027 445	E 0 47 477	E 700 E47	•	E 700 470
38	TOTAL OFF-SETTING REVENUES - COMBINED WATER SYSTEM	\$	5,827,415	5,847,477	5,702,517	\$	5,792,470

39 USE OF FUND BALANCE

⁽¹⁾ Based upon the 3-year average of total expenses allocated to Water Supply.

⁽²⁾ Based upon the 3-year average of total expenses allocated to Water Distribution.

Appendix D – Sewer System Cost of Service

Appendix D SEWER SYSTEM COST OF SERVICE

Schedule 1	Retail & Wholesale Cost of Service Analysis Results: Sewer System
Schedule 2	Cost Allocation by Customer Class & Cost Type
Schedule 3	Debt Service: Sewer Treatment & Disposal and Sewer Collection & Transmission
Schedule 4	Operating, Administrative & Capital Expenses: Sewer Treatment & Disposal
Schedule 5	Operating, Administrative & Capital Expenses: Sewer Collection & Transmission
Schedule 6	Off-setting Revenues: Sewer Treatment & Disposal and Sewer Collection &
Transmiss	ion



RETAIL VS. WHOLESALE COST OF SERVICE ANALYSIS: SEWER SYSTEM

Debt Service				i	FY 2023 FEST YEAR		T	FY 2019 EST YEAR
Operating, Administrative & Capital Expenses \$43,861,876 \$43,86 \$7,26 \$7,26 \$7,26 \$1,00		CEMIED TREATMENT & DICROCAL.						
Debt Service	1			Ф	/3 681 876		Ф	43,852,638
Subtotal Revenue Requirement \$ 50,036,046 \$ 51,11		1 0,		Ψ	, ,		Ψ	7,264,998
4 Off-Setting Revenues (5,504,257) (4,93 5 Use of Reserve Funds (1) 941,223 (10,97 Total Revenue Requirement - Sewer Treatment & Disposal \$ 45,473,911 \$ 35,21 SEWER COLLECTION & TRANSMISSION: 7 Operating, Administrative & Capital Expenses \$ 58,190,790 \$ 49,33 8 Debt Service 7,676,644 9,14 9 Subtotal Revenue Requirement \$ 65,867,434 \$ 58,47 10 Off-Setting Revenues (7,467,060) (5,71 11 Use of Reserve Funds (2) 826,347 (16,68 12 Total Revenue Requirement - Sewer Collection & Transmission \$ 59,226,721 \$ 36,06 13 Operating, Administrative & Capital Expenses \$ 101,872,666 \$ 93,18 14 Debt Service 14,031,714 16,40 15 Subtotal Revenue Requirement \$ 15,904,380 \$ 109,58 16 Off-Setting Revenues (12,971,317) (10,66 17 Use of Reserve Funds 1,767,569 (27,66 18 Total Revenue Requirement - Combined Sewer System \$ 104,700,632 \$ 71,27 10 Allocation of Sewer C&T Revenue Requirement 7,154,176				\$			\$	51,117,636
Use of Reserve Funds (1)				•			Ψ	(4,931,105)
Total Revenue Requirement - Sewer Treatment & Disposal \$ 45,473,911 \$ 35,21					,			(10,976,426)
SEWER COLLECTION & TRANSMISSION:				\$			\$	35,210,105
7 Operating, Administrative & Capital Expenses \$ 58,190,790 \$ 49,33 8 Debt Service 7,676,644 9,14 9 Subtotal Revenue Requirement \$ 65,867,434 \$ 58,47 10 Off-Setting Revenues (7,467,060) (5,71 11 Use of Reserve Funds (2) 826,347 (16,68 12 Total Revenue Requirement - Sewer Collection & Transmission \$ 59,226,721 \$ 36,06 COMBINED SEWER SYSTEM: COMBINED SEWER SYSTEM: 3 Operating, Administrative & Capital Expenses \$ 101,872,666 \$ 93,18 4 Debt Service \$ 14,031,714 16,40 5 Subtotal Revenue Requirement \$ 115,904,380 \$ 109,58 16 Off-Setting Revenues \$ 12,943,380 \$ 109,58 17 Use of Reserve Funds \$ 1,767,569 \$ 27,66 18 Total Revenue Requirement - Combined Sewer System \$ 104,700,632 \$ 71,27 Reallocation of Sewer C&T Revenue Requirement: \$ 20,72% \$ 1 10 Allocation to Sewer T&D (4) \$ 7,154,176 \$ 2					-, -,-		_	,
Debt Service 7,676,644 9,14 Subtotal Revenue Requirement \$65,867,434 \$58,47 Off-Setting Revenues (7,467,060) (5,77 Use of Reserve Funds \$26,347 (16,68 Total Revenue Requirement - Sewer Collection & Transmission \$59,226,721 \$36,06 COMBINED SEWER SYSTEM:		SEWER COLLECTION & TRANSMISSION:						
Subtotal Revenue Requirement \$ 65,867,434 \$ 58,47 Off-Setting Revenues (7,467,060) (5,71 Use of Reserve Funds 826,347 (16,68 Total Revenue Requirement - Sewer Collection & Transmission \$ 59,226,721 \$ 36,06 COMBINED SEWER SYSTEM:	7	Operating, Administrative & Capital Expenses		\$	58,190,790		\$	49,330,639
Off-Setting Revenues								9,141,567
Use of Reserve Funds 20				\$			\$	58,472,206
Total Revenue Requirement - Sewer Collection & Transmission \$ 59,226,721 \$ 36,06 COMBINED SEWER SYSTEM: 101,872,666 \$ 93,18 14 Debt Service 14,031,714 16,40 15 Subtotal Revenue Requirement \$ 115,904,380 \$ 109,58 16 Off-Setting Revenues (12,971,317) (10,65 17 Use of Reserve Funds 1,767,569 (27,66 18 Total Revenue Requirement - Combined Sewer System \$ 104,700,632 \$ 71,27 Reallocation of Sewer C&T Revenue Requirement: 20,72% 1 19 % of Below Ground Assets Required to Serve Wholesale (3) 20,72% 1 20 Allocation to Sewer T&D (4) 7,154,176 2,44 Billed Sewer Flows (In 1,000 gallons): 21,9% 1,944,207 20,6% 2,02 21 Wholesale 21,9% 1,944,207 20,6% 2,02 22 Retail 78,1% 6,951,643 79,4% 7,82 23 FY 2022 Cost of Service Allocations: \$ 104,700,632 \$ 7,74 24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 FY 2022 Rate Revenues (Per FAMS):		•			(7,467,060)			(5,718,970)
COMBINED SEWER SYSTEM: 13 Operating, Administrative & Capital Expenses \$ 101,872,666 \$ 93,18 14 Debt Service 14,031,714 16,40 15 Subtotal Revenue Requirement \$ 115,904,380 \$ 109,58 16 Off-Setting Revenues (12,971,317) (10,65 17 Use of Reserve Funds 1,767,569 (27,66 18 Total Revenue Requirement - Combined Sewer System \$ 104,700,632 \$ 71,27 Reallocation of Sewer C&T Revenue Requirement:								(16,685,308)
Total Revenue Requirement Service Servic	12	Total Revenue Requirement - Sewer Collection & Transmission		\$	59,226,721		\$	36,067,928
Total Revenue Requirement Service Servic		COMPINED CEMED CYCTEM.						
Debt Service	12			¢	101 972 666		Ф	93,183,277
Subtotal Revenue Requirement \$ 115,904,380 \$ 109,588 109,588 109,588 109,588 109,588 109,588 109,588 109,588 109,768 109,588 109,768 109,768 109,768 109,768 109,768 109,768 109,768 109,709,632 109,768 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,632 109,709,709,632 109,7		1 0,		Ą			Φ	16,406,565
16 Off-Setting Revenues (12,971,317) (10,65 17 Use of Reserve Funds 1,767,569 (27,66 18 Total Revenue Requirement - Combined Sewer System \$ 104,700,632 \$ 71,27 Reallocation of Sewer C&T Revenue Requirement: 19 % of Below Ground Assets Required to Serve Wholesale (3) 20.72% 1 20 Allocation to Sewer T&D (4) 7,154,176 2,44 Billed Sewer Flows (In 1,000 gallons): 21 Wholesale 21.9% 1,944,207 20.6% 2,02 22 Retail 78,1% 6,951,643 79.4% 7,82 23 FY 2022 Cost of Service Allocations: \$ 104,700,632 \$ 71,27 24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% \$ 93,198,653 89.1% 6 3,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% 8 8,73				\$			\$	109,589,842
Use of Reserve Funds				Ψ			Ψ	(10,650,075)
Total Revenue Requirement - Combined Sewer System \$ 104,700,632 \$ 71,27 Reallocation of Sewer C&T Revenue Requirement: 19 % of Below Ground Assets Required to Serve Wholesale (3) 20 Allocation to Sewer T&D (4) 21 Wholesale 22 Retail 23 FY 2022 Cost of Service Allocations: 24 Wholesale 25 Retail 26 FY 2022 Rate Revenues (Per FAMS): 27 Wholesale 28 FY 2022 Rate Revenues (Per FAMS): 29 FY 2022 Rate Revenues (Per FAMS): 20 \$ 104,700,632 \$ 71,27 \$ 10.9% \$ 7,74 \$ 1.94 \$ 1.94 \$ 1.97 \$ 1.99 \$ 1.99 \$ 1.94 \$ 1.99 \$ 1.94 \$								(27,661,734)
19 % of Below Ground Assets Required to Serve Wholesale (3) 20 Allocation to Sewer T&D (4) 21 Allocation to Sewer Flows (In 1,000 gallons): 22 Retail 23 FY 2022 Cost of Service Allocations: 24 Wholesale 25 Retail 26 FY 2022 Rate Revenues (Per FAMS): 27 Wholesale 28 FY 2022 Rate Revenues (Per FAMS): 29 FY 2022 Rate Revenues (Per FAMS): 20 FY 2022 Rate Revenues (Par FAMS): 21 University 1,944,207 (20.6%) (2.02) (2				\$			\$	71,278,033
19 % of Below Ground Assets Required to Serve Wholesale (3) 20 Allocation to Sewer T&D (4) 21 Allocation to Sewer Flows (In 1,000 gallons): 22 Retail 23 FY 2022 Cost of Service Allocations: 24 Wholesale 25 Retail 26 FY 2022 Rate Revenues (Per FAMS): 27 Wholesale 28 FY 2022 Rate Revenues (Per FAMS): 29 FY 2022 Rate Revenues (Per FAMS): 20 FY 2022 Rate Revenues (Par FAMS): 21 University 1,944,207 (20.6%) (2.02) (2								
20 Allocation to Sewer T&D ⁽⁴⁾ Billed Sewer Flows (In 1,000 gallons): 21 Wholesale 22 Retail 23 FY 2022 Cost of Service Allocations: 24 Wholesale 25 Retail 27 Retail 28 PY 2022 Rate Revenues (Per FAMS): 29 FY 2022 Rate Revenues (Per FAMS): 20 FY 2022 Rate Revenues (Per FAMS): 20 FY 2022 Rate Revenues (Per FAMS): 21.9% 1,944,207 20.6% 2,02 78.1% 6,951,643 79.4% 7,82 78.1% 6,951,643 79.4% 7,82 79.4% 79.4% 79.4% 79.2% 79.4% 79.2% 79.4% 79.2% 7		Reallocation of Sewer C&T Revenue Requirement:						
Billed Sewer Flows (In 1,000 gallons): 21 Wholesale 21.9% 1,944,207 20.6% 2,02 22 Retail 78.1% 6,951,643 79.4% 7,82 23 FY 2022 Cost of Service Allocations: \$ 104,700,632 \$ 71,27 24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% 93,198,653 89.1% 63,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73	19	% of Below Ground Assets Required to Serve Wholesale (3)			20.72%			19.49%
Billed Sewer Flows (In 1,000 gallons): 21 Wholesale 21.9% 1,944,207 20.6% 2,02 22 Retail 78.1% 6,951,643 79.4% 7,82 23 FY 2022 Cost of Service Allocations: \$ 104,700,632 \$ 71,27 24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% 93,198,653 89.1% 63,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73	20	Allocation to Sewer T&D (4)			7,154,176			2,441,208
21 Wholesale 21.9% 1,944,207 20.6% 2,02 22 Retail 78.1% 6,951,643 79.4% 7,82 23 FY 2022 Cost of Service Allocations: \$ 104,700,632 \$ 71,27 24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% \$ 93,198,653 89.1% \$ 63,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73					, - , -			, , ,
22 Retail 78,1% 6,951,643 79.4% 7,82 23 FY 2022 Cost of Service Allocations: \$ 104,700,632 \$ 71,27 24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% \$ 93,198,653 89.1% \$ 63,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73		Billed Sewer Flows (In 1,000 gallons):						
23 FY 2022 Cost of Service Allocations: 24 Wholesale 25 Retail 26 FY 2022 Rate Revenues (Per FAMS): 27 Wholesale 28 PY 2022 Rate Revenues (Per FAMS): 29 PY 2022 Rate Revenues (Per FAMS): 20 PY 2022 Rate Revenues (Per FAMS): 21 Structure \$ 104,700,632 \$ 71,27 \$ 10.9% \$ 7.74 \$ 63,52 \$ 71,27 \$ 10.9% \$ 7.74 \$ 10.9% \$ 7.74 \$ 10.9% \$ 7.74 \$ 10.9% \$ 7.74 \$ 10.9% \$ 7.74 \$ 10.9% \$ 1					, ,			2,027,675
24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% \$ 93,198,653 89.1% \$ 63,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73	22	Retail	78.1%		6,951,643	79.4%		7,825,403
24 Wholesale 11.0% \$ 11,501,979 10.9% \$ 7,74 25 Retail 89.0% \$ 93,198,653 89.1% \$ 63,52 26 FY 2022 Rate Revenues (Per FAMS): \$ 104,700,632 \$ 71,27 27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73	00	EV 0000 Ocatas Country Allegations	Г	Φ.	404 700 000	Г	Φ.	74 070 000
25 Retail 89.0% \$ 93,198,653 89.1% \$ 63,52 26 FY 2022 Rate Revenues (Per FAMS): 27 Wholesale \$ 12.8% \$ 13,447,629 12.3% \$ 8,73						_		71,278,033
26 FY 2022 Rate Revenues (Per FAMS): \$\ \bigsless \text{104,700,632} \\ \bigsless \text{12.8\%} \\ \text{13,447,629} \\ \delta \text{12.3\%} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\								7,748,302 63,529,732
27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73	25	Retail	09.0%	Ф	93, 190,033	09.170	Ф	03,529,732
27 Wholesale 12.8% \$ 13,447,629 12.3% \$ 8,73	26	FY 2022 Rate Revenues (Per FAMS):	Г	\$	104 700 632	Г	\$	71,278,037
			12.8%	-				8,737,700
-		Retail			, ,			62,540,337
				Ė	-		•	, , , , , , , ,
FY 2022 Rate Revenues per FY 2022 Cost of Service Analysis:								
				\$			•	7,748,302
Retail \$ 93,198,653 \$ 63,52		Retail		\$	93,198,653		\$	63,529,732
FV 0000 D A liveture to Dec Oct of Oct of the Arelanda		EV 0000 Burney Addition to Burney St. 100 Inc. 1						
FY 2022 Revenue Adjustments Per Cost of Service Analysis:				•	(4.045.040)		•	(000,000)
				\$	• • • • •			(989,398)
Retail \$ 1,945,649 \$ 98		Retail		Þ	1,945,649		Ф	989,394
FY 2022 Rate Adjustments to Align with Cost of Service Analysis:		FY 2022 Rate Adjustments to Align with Cost of Service Analysis						
					-16.92%			-12.77%
1111-11								1.56%

⁽¹⁾ Reflects the portion of unrestricted reserves necessary to fund the annual Renewal & Replacement Fund transfer allocable to Sewer Treatment & Disposal.



⁽²⁾ Reflects the portion of unrestricted reserves necessary to fund the annual Renewal & Replacement Fund transfer allocable to Sewer Collection &

⁽³⁾ Wholesale allocation based on linear footage of sewer lines greater than 12" as a percentage of total linear footage of sewer lines.

⁽⁴⁾ Not applicable to Renewal, Replacement, & Improvement Expenses, as the allocation of capital expenditures already included the allocation of below ground assets to Sewer Treatment & Disposal.

Appendix D - Sewer System Cost of Service

RETAIL COST ALLOCATION BY CUSTOMER CLASS: SEWER SYSTEM

		EV	2023	10/1	OLEGALE VG. E	1	ALL OCAT	TION	20-0	AU EIVED VC VADI	ADLE ALLOCATION
			YEAR (1)	RETAIL	OLESALE VS. R WHOLESALE	(=17	RETAIL	WHOLESALE	REI	AIL FIXED VS. VARI TOTAL RE	ABLE ALLOCATION
		IESI	TEAR	KETAIL	WHOLESALE	_	RETAIL	WHOLESALE		FIXED	VARIABLE
										FIXED	VARIABLE
	SEWER TREATMENT & DISPOSAL:									70.37%	29.63%
1	Operating, Administrative & Capital Expenses (1)	\$ 43	3,681,876	78.14%	21.86%	\$	34,135,110	9,546,766	\$	24,022,296	10,112,814
2	Debt Service (1)	6	6,355,069	78.14%	21.86%		4,966,156	1,388,914		3,494,890	1,471,265
3	Subtotal Revenue Requirement	\$ 50	0,036,946								
4	Off-Setting Revenues (1)	(!	5,504,257)	78.14%	21.86%		(4,301,290)	(1,202,967)		(3,026,997)	(1,274,294)
5	Use of Reserve Funds (1)		941,223	78.14%	21.86%		735,516	205,706		517,614	217,903
6	Total Revenue Requirement - Sewer Treatment & Disposal	\$ 45	5,473,911			\$	35,535,492	9,938,419	\$	25,007,803	10,527,689
	SEWER COLLECTION & TRANSMISSION:									87.88%	12.12%
7	Operating, Administrative & Capital Expenses (2)	\$ 58	8,190,790	97.36%	2.64%	\$	56,654,578	1,536,212	\$	39,870,181	16,784,397
8	Debt Service (2)	7	7,676,644	97.36%	2.64%		7,473,984	202,660		5,259,753	2,214,231
9	Subtotal Revenue Requirement	\$ 65	5,867,434								
10	Off-Setting Revenues (2)	(7	7,467,060)	97.36%	2.64%		(7,269,932)	(197,127)		(5,116,154)	(2,153,779)
11	Use of Reserve Funds (2)		826,347	97.36%	2.64%		804,532	21,815		566,182	238,349
12	Total Revenue Requirement - Sewer Collection & Transmission	\$ 59	9,226,721			\$	57,663,161	1,563,560	\$	40,579,963	17,083,198
	COMBINED SEWER SYSTEM:										
13	Operating, Administrative & Capital Expenses		1,872,666			\$	90,789,688	\$ 11,082,978	\$	63,892,477	26,897,211
14	Debt Service		4,031,714			_	12,440,140	1,591,574		8,754,643	3,685,496
15	Subtotal Revenue Requirement		5,904,380			\$	103,229,828	\$ 12,674,552	\$	72,647,120	30,582,708
16	Off-Setting Revenues		2,971,317)				(11,571,223)	(1,400,094)		(8,143,150)	(3,428,072)
17	Use of Reserve Funds		1,767,569				1,540,048	227,521		1,083,796	456,252
18	Total Revenue Requirement - Combined Sewer System	\$ 104	4,700,632			\$	93,198,653	\$ 11,501,979	\$	65,587,766	27,610,887

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Proposed Budget. Personnel Services are executed at 95% while Capital Outlay and Fixed Operating and Maintenace expenses are execute at 100% (2) Retail and wholesale allocation of Sewer Treatment & Disposal expenses is based upon projected FY 2023 billed volume shown in Schedule 1.
(3) \$6.4M of Sewer Collection & Transmission expense is part of the wholesale system, which is allocated to retail and wholesale based on projected FY 2023 billed volume shown in Schedule 1.
(4) Retail allocation of fixed and variable costs are based upon costs of each cost center, shown in Schedules 4 and 5.



Appendix D – Sewer System Cost of Service

DEBT SERVICE: SEWER T&D AND SEWER C&T

					FY 2021 ACTUAL	FY 2022 ACTUAL	FY 2023 TEST YEAR		3-YEAR AVERAGE
1	TOTAL DEBT SERVICE - COMBINED SEWER SYSTEM			\$	10,137,570	14,110,350	14,031,714	\$	12,759,878
	Debt Service by Issue:	T&D (1)	C&T (1)						
2	Series 2008A	39.0%	61.0%	1	2,187,634	2,194,160	2,189,345	\$	2,190,380
3	Series 2008B	39.0%	61.0%	1	5,395,274	5,389,245	5,390,048	•	5,391,522
4	Series 2016	100.0%	0.0%	1	2,031,092	2,026,128	2,027,372		2,028,197
5	Series 2021A	31.0%	69.0%	1	445,776	447,847	-		297,874
6	Series 2021B	31.0%	69.0%	1	77,794	111,760	111,640		100,398
7	Series 2022	31.0%	69.0%]	-	3,941,209	4,313,310		2,751,506
8	Projected Future Debt Service	26.0%	74.0%	\$	-	-	-	\$	-
9	Senior Lien Debt Service - Sewer Treatment & Disposal			\$	5,150,733	6,378,909	6,355,069	\$	5,961,570
10	Coverage Requirement		1.00	\$	-	-	· -	\$, , , <u>-</u>
11	Senior Lien Debt Service - Sewer Collection & Transmission			\$	4,986,837	7,731,441	7,676,644	\$	6,798,307
12			1.00	\$	-	-	-	\$	-
13	Total Debt on Bonds			\$	10,137,570	14,110,350	14,031,714	\$	12,759,878
14	Coverage Requirement		1.00	\$		-	-	\$	-
(1)	Allocation based upon the portion of the system that received the direct	at benefit from	the proceeds	of e	ach issuance				



Appendix D - Sewer System Cost of Service

OPERATING, ADMINISTRATIVE & CAPITAL EXPENSES: SEWER TREATMENT & DISPOSAL

			FY 2021 ACTUAL		FY 2022 ACTUAL	TE	FY 2023 ST YEAR ⁽¹⁾		3-YEAR AVERAGE	FIXED VS. VARIAE FY 2023 TI		EST YEAR	
	OPERATING & MAINTENANCE EXPENSES										\$ FIXED	\$ VAR	
	OPERATING & MAINTENANCE EXPENSES 431330 SCADA (2)		050 510	•	400.461	•	504.000	•	400.047	•	070 45 4	n 405.405	
1		\$	356,510	\$	433,491	\$	501,939	\$	430,647	\$	376,454		
2	431340 Laboratories (3)		1,676,035		1,742,021		1,841,802		1,753,286		1,665,535	176,267	
3	431350 Monitoring ⁽⁴⁾		531,816		487,768		990,323		669,969		-	990,323	
4	431360 South Operations (South Cross) (5)		9,980,176		10,480,117		13,002,435		11,154,243		5,531,235	7,471,200	
5	435110 Wholesale Wastewater		1,150,595		1,438,403		1,789,000		1,459,332		-	1,789,000	
6	435120 North Operations (Dunn) (5)		3,719,901		4,093,945		4,878,759		4,230,868		2,489,909	2,388,850	
7	435130 Purchase of Reclaim (Water)		17,819		36,807		30,000		28,209		30,000	-	
8	431335 Utilities Data Management			_	(186)		243,019	_	80,944		243,019		
9	TOTAL OPERATING & MAINTENANCE EXPENSES	\$	17,432,853	\$	18,712,365	\$	23,277,277	\$	19,807,498	\$	10,336,153	\$ 12,941,124	
	GENERAL & ADMINISTRATIVE EXPENSES:												
10	431040 Warehouse Support	\$	703,558	\$	666,404	\$	583,925	\$	651,296	\$	583,925	\$ -	
11	431130 Water & Sewer Administration		6,479,157		6,629,357		7,209,302		6,772,605		7,209,302	-	
	431050 Utilities Engineering		4,976,138		6,580,919		11,333,583		7,630,213		11,333,583	-	
13	431085 Customer Service		3,589,413		3,324,135		3,855,923		3,589,824		3,855,923	-	
14	Data Processing Costs		(1,408)		-				(469)		-	<u> </u>	
15	Subtotal	\$	15,746,857		17,200,815		22,982,733	\$	18,643,468	\$	22,982,733	\$ -	
	Allocation to Sewer Treatment & Disposal (6)		53.25%		53.25%		53.25%		53.25%		53.25%	53.25%	
17	TOTAL GENERAL & ADMINISTRATIVE EXPENSES	\$	8,385,130	\$	9,159,356	\$	12,238,201	\$	9,927,562	\$	12,238,201	\$ -	
	RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES:												
18	Sewer Treatment & Disposal (7)			\$	8,873,569	\$	4,942,896	s	6,908,232	\$	4,942,896	\$ -	
19	Reclaimed (7)			۳	2,041,347	Ψ.	2,511,025	,	2,276,186	•	2,511,025	_	
20	TOTAL RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES	\$		\$	10,914,916	\$	7,453,921	\$	6,122,945	\$	7,453,921	\$ -	
	CAPITAL EQUIPMENT EXPENSES:												
	Admin & Business Support Cost Centers					. 4							
	431085 Customer Service	\$	-	\$	177,099	\$	111,350	\$	96,150	\$	111,350		
22	Subtotal	\$	-		177,099		111,350		96,150	\$	111,350		
23	Allocation to Sewer Treatment & Disposal (8)		53.25%		53.25%		53.25%		53.25%		53.25%	53.25%	
24	Total Admin & Business Support Cost Centers	\$	-	\$	94,304	\$	59,293	\$	51,199	\$	59,293	\$ -	
	Water & Sewer Cost Centers												
	431335 Utilities Data Management	\$	-	\$		\$	4,825	\$	1,608		4,825	-	
	431330 SCADA (2)		-		7,431		-		2,477		-	-	
	431340 Laboratories		-		22,029		-		7,343		-	-	
28	431350 Monitoring (4)		2,971				35,000		12,657		35,000	-	
29	431360 South Operations (South Cross) (5)		13,785	h	199,276		206,547		139,869		206,547	-	
30	435120 North Operations (Dunn) (5)		85,516		133,292		406,813		208,540		406,813	-	
31	Total Water & Sewer Cost Centers	\$	102,271	\$	362,028	\$	653,184	\$	372,495	\$	653,184	\$ -	
	Engineering & Technical Support Cost Centers												
32	431470 CIP Planning & Design	\$	44,646	\$	50,840	\$	-	\$	31,829	\$	-	\$ -	
33	431471 Construction Management	\$	17,069		19,528				12,199	\$	-	\$ -	
34	Subtotal	\$	61,716	\$	70,369	\$	-	\$	44,028	\$		\$ -	
35	Allocation to Sewer Treatment & Disposal (9)		28.01%		28.01%		28.01%		28.01%		28.01%	28.01%	
36	Total Engineering & Technical Support Cost Centers	\$	17,287	\$	19,710	\$	-	\$	12,332	\$	-	\$ -	
37	TOTAL CAPITAL EQUIPMENT EXPENSES	\$	119,558	\$	476,043	\$	712,478	\$	436,026	\$	712,478	\$ -	
38	TOTAL EXPENSES - SEWER TREATMENT & DISPOSAL (10)	\$	25.937.541	\$	39,262,679	\$	43.681.876	\$	36,294,032	\$	30,740,752	\$ 12,941,124	
- 55		Ť	_0,00.,041	_	,=-,-70	_	. 5,00 .,0.0		-0,20 .,002	¥	- 5,	,,	

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Proposed Budget. Personnel Services are executed at 95% while Capital Outlay and Fixed Operating and Maintenace expenses are execute at 100% per

⁽²⁾ Costs assumed to be 50% allocable to sewer Treatment & Disposal and 50% allocable to sewer Collection & Transmission based on County staff direction. Costs assumed to be 75% fixed and 25% variable (3) Electric power portion of costs (10%) assumed to be variable.
(4) Costs assumed to be 50% allocable to sewer Treatment & Disposal and 50% allocable to sewer Collection & Transmission based on County staff direction.

⁽a) Costs assumed to be down aniocable to sewer Treatment & Disposal and down allocable to sewer Collection & Harismission based on County star.

(6) Represents non-Pump Station portion of cost center assignable to sewer Treatment & Disposal.

(7) Based upon the 3-year average of Operating & Maintenance Expenses directly assignable to sewer Treatment & Disposal.

(7) Based upon allocation of capital expenditures by function. FY 2021 not provided.

(8) Based upon the annual allocations of General & Administrative Expenses to sewer Treatment & Disposal.

(9) Based upon the 3-year average of Renewal, Replacement, & Improvement Project expenses directly assignable to sewer Treatment & Disposal.

(10) Total FY 2021 expenses excludes RR&I projects (allocations not provided).

Appendix D - Sewer System Cost of Service

OPERATING, ADMINISTRATIVE & CAPITAL EXPENSES: SEWER COLLECTION & TRANSMISSION

			FY 2021 ACTUAL		FY 2022 ACTUAL	FY 2023 TEST YEAR ⁽¹⁾		3-YEAR AVERAGE			FIXED VS. VARIAE FY 2023 TI \$ FIXED		
	OPERATING & MAINTENANCE EXPENSES									_	\$ FIXED		\$ VAR
1	431240 Technical Services	\$	15,680	•	107,590	•	180,582	\$	101,284	\$	180,582	•	
		φ		φ		φ		φ		φ		φ	50.444
2	431250 Maintenance North & South (2)		7,482,205		6,649,521		7,840,081		7,323,936		7,789,667		50,414
3	431330 SCADA ⁽³⁾		356,510		433,491		501,939		430,647		376,454		125,485
4	431350 Monitoring		531,816		487,768		990,323		669,969				990,323
5	431370 Code Enforcement		17,862		24,943		46,747		29,851		46,747		
6	431070 Field Services		714,658		745,492		979,820		813,323		-		979,820
7	Pump Station Costs (North & South) (4)		7,067,706		7,526,390		9,226,041		7,940,046		4,316,666		4,909,375
8	431335 Utilities Data Management	_	-		(186)		243,019		80,944	_	243,019		
9	TOTAL OPERATING & MAINTENANCE EXPENSES	\$	16,186,438	\$	15,975,009	\$	20,008,551	\$	17,389,999	\$	12,953,135	\$	7,055,416
	GENERAL & ADMINISTRATIVE EXPENSES:												
	431040 Warehouse Support	\$	703,558	\$	666,404	\$	583,925	\$	651,296	\$	583,925	\$	-
			6,479,157		6,629,357		7,209,302		6,772,605		7,209,302		-
	431050 Utilities Engineering		4,976,138		6,580,919		11,333,583		7,630,213		11,333,583		-
	431085 Customer Service		3,589,413		3,324,135		3,855,923		3,589,824		3,855,923		-
	Data Processing Costs		(1,408)		-		<u> </u>		(469)	_	-		
15	Subtotal	\$	15,746,857	\$	17,200,815	\$	22,982,733	\$	18,643,468	\$	22,982,733	\$	-
	Allocation to Sewer Collection & Transmission (5)		46.75%		46.75%		46.75%		46.75%		46.75%		46.75%
17	Subtotal Pete Pressering Costs	\$	7,361,727 1.408	\$	8,041,459	\$	10,744,532	\$	8,715,906 469	\$	10,744,532	\$	-
	Data Processing Costs TOTAL GENERAL & ADMINISTRATIVE EXPENSES	\$	7,363,136	\$	8,041,459	\$	10,744,532	\$	8,716,376	\$	10,744,532	\$	
	RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES: Sewer Collection (6) TOTAL RENEWAL, REPLACEMENT, & IMPROVEMENT PROJECT EXPENSES CAPITAL EQUIPMENT EXPENSES:	\$	-	\$	22,517,514 22,517,514	\$ \$	24,693,375 24,693,375	\$	23,605,445 15,736,963	\$	24,693,375 24,693,375		
	Admin & Business Support Cost Centers												
22	431085 Customer Service	\$	-	\$	177,099	\$	111,350	\$	96,150	\$	111,350	\$	
23	Subtotal	\$	-	\$	177,099	\$	111,350	\$	96,150	\$	111,350	\$	-
24	Allocation to Sewer Collection & Transmission (7)		46.75%		46.75%		46.75%		46.75%		46.75%		46.75%
25	Total Admin & Business Support Cost Centers	\$	-	\$	82,795	\$	52,057	\$	44,950	\$	52,057	\$	-
	Water & Sewer Cost Centers												
26	431335 Utilities Data Management	\$	_	\$		S	4,825	\$	1.608		4.825		_
	431250 Maintenance North & South	۳	433,057	•	1,776,135	Ĭ.	2,322,310	•	1,510,501		2,322,310		_
	431330 SCADA		-		7,431	7	-,,		2.477		-,,		-
			2.971				35,000		12.657		35.000		-
	431360 South Operations (South Cross)		6,898		99,715		103,353		69,989		103,353		-
31	435120 North Operations (Dunn)		47,673		74,307		226,787		116,255		226,787.08		-
32	Total Water & Sewer Cost Centers	\$	490,598	\$	1,957,588	\$	2,692,276	\$	1,713,487	\$	2,692,276	\$	
	Engineering & Technical Support Cost Centers		1										
3/	431470 CIP Planning & Design	\$	44,646	s	50.840	•	_	\$	31,829				
	431471 Construction Management	Ψ	17,069	۳	19,528	Ψ		Ψ	12,199				
	Subtotal	\$	61,716	•		•		\$	44,028	\$	-	\$	
37	Allocation to Sewer Collection & Transmission (8)	Ψ	71.99%	Ψ	71.99%	Ψ	74.000/	Ψ	71.99%	Ψ	71.99%	Ψ	71.99%
38	Total Engineering & Technical Support Cost Centers	\$	44,429	•	50,658	\$	71.99%	\$	31,696	\$	7 1.99%	\$	71.99%
	TOTAL CAPITAL EQUIPMENT EXPENSES	•	535,027				2,744,332	\$	1,790,134	\$	2,744,332		
აყ	TOTAL CAPITAL EQUIPMENT EXPENSES	3	535,027	Þ	2,091,041	.	2,144,332		1,790,134	.	2,144,332	.	
40	TOTAL EXPENSES - SEWER COLLECTION & TRANSMISSION (9)	\$	24,084,601	\$	48,625,023	\$	58,190,790	\$	43,633,471	\$	51,135,374	\$	7,055,416

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Proposed Budget, executed at 100%.
(2) Electric power portion of costs (1%) assumed to be variable.
(3) Costs assumed to be 50% allocable to Sewer Treatment & Disposal and 50% allocable to Sewer Collection & Transmission based on County staff direction. Costs assumed to be 75% fixed and 25% variable (4) Represents Pump Station portion of cost center assignable to Sewer Collection & Transmission (32%).
(5) Based upon the 3-year average of Operating & Maintenance Expenses directly assignable to Sewer Collection & Transmission.
(6) Based upon allocation of capital expenditures by function as provided by County staff, FY 2021 not provided.
(7) Based upon the annual allocations of General & Administrative expenses to Sewer Collection & Transmission.
(8) Based upon the 3-year average of Renewal, Replacement, & Improvement project expenses directly assignable to Sewer Collection & Transmission.
(9) Total FY 2021 expenses excludes RR&I projects (allocations not provided).

OFF-SETTING REVENUES: SEWER T&D AND SEWER C&T

			FY 2021 ACTUAL		FY 2022 ACTUAL		FY 2023 BUDGET		3-YEAR AVERAGE
	OFF-SETTING REVENUES - SEWER TREATMENT & DISPOSAL:								
1	Interest Income - O & M and R & R								
2	3611210 Interest-Cash Pools	\$	16,030	\$	_	\$	-	\$	5,343
3	3611700 Interest - LGIP & Public Funds D		20,093		-		-		6,698
4	3611800 Interest-Securities		482,604		-		-		160,868
5	3611991 Other Interest Earnings		2,141		-		-		714
6	3613001 Net Inc/Dec In Fair Value		(377,896)		-		-		(125,965)
7	Interest - Unrestricted Funds		520,868		519,329		367,771		469,323
8	Interest - Restricted Funds	•		Φ.	3,532	•	2,251		1,928
9	Subtotal	\$	663,840	\$	522,861	\$	370,022	\$	518,908
10 11	Allocation to Sewer Treatment & Disposal (1) Total Interest Income - O & M and R & R	\$	45.41% 301,441	\$	45.41% 237,424	\$	45.41% 168,022	\$	45.41% 235,629
- 11	Total interest income - O & M and R & R	Φ	301,441	Φ	237,424	Ф	100,022	Ф	233,029
	Other Operating Revenue								
	3290006 Industrl Wstewtr Dis Perm	\$	38,000	\$		\$	72,000	\$	53,283
13	3290007 Grease Permitting Fee		117,590		119,180		120,000		118,923
14	Reclaimed Meter Reimbursement Fees		- 0.004.004		- 200 202		992,213		330,738
15	Reclaimed Retail Rate Revenue 3435322 Ws Reclaimed Meter Sv Chr ⁽²⁾		2,664,661		2,798,303		2,954,448		2,805,804
16	and the state of t		1,958		2,240		2,365		2,188
17	3435331 Reclaim Water-St Pete Bch (2)		130,626		149,482		157,823		145,977
18	3435332 Reclaim Water-So Pasadena (2)		28,549	4	32,670		34,493		31,904
19	3435333 Reclaim Wtr-Pinellas Park (2)		147,949		169,306		178,753		165,336
20	3435334 Reclaim Wtr-Belleair (2)		9,081		10,392		10,971		10,148
21	3435502 Laboratory Services		299,391		259,559		220,000		259,650
	3435601 Fat/Oil/Grease Tip Fees		226,263		226,263		238,168		230,231
23 24	3435701 Pelletized Sludge Sales 3699305 Inter-Reimb-External-Other		191,963 144,536		189,559 126,425		190,000 165,000		190,507 145,320
25	Total Other Operating Revenue	\$	4,000,566	\$	4,133,228	\$	5,336,235	\$	4,490,010
26	TOTAL OFF-SETTING REVENUES - SEWER TREATMENT & DISPOSAL	\$	4,302,007	\$	4,370,652	\$	5,504,257	\$	4,725,639
			1,002,001		.,0.0,002		0,000.,200		.,. 20,000
	OFF-SETTING REVENUES - SEWER COLLECTION & TRANSMISSION:								
27	Interest Income - O & M and R & R								
28	Allocation to Sewer Collection & Transmission (3)	\$	362,399	\$	285,437	\$	202,000	\$	283,279
	Other Operating Revenue								
29	Reclaimed Meter Reimbursement Fees				_		1,306,126		435,375
30	Reclaimed Retail Rate Revenue		3,507,696		3,683,619		3,889,165		3,693,493
31	3435322 Ws Reclaimed Meter Sv Chr (2)		2,577		2,949		3,114		2,880
32	3435331 Reclaim Water-St Pete Bch (2)		171,952		196,774		207,754		192,160
33	3435332 Reclaim Water-So Pasadena (2)		37,581		43,006		45,405		41,997
34	3435333 Reclaim Wtr-Pinellas Park (2)		194,757		222,870		235,306		217,644
1 -	3435334 Reclaim Wtr-Belleair (2)		11,954		13,679		14,443		13,359
36	3435120 Tapping Fees		422,097		224,604		30,000		225,567
	3435121 Sewer-Late Payment Fee		462,581		463,858		540,000		488,813
38	3435570 Miscellaneous Revenue		46,710		47,817		42,747		45,758
39	3490010 Chg For Sv-Bad Dbt Ex(DR)		107,530		(21,788)		-		28,581
	3644100 Sale- Surplus Equipment		139,389		92,822		35,000		89,070
	3644200 Ins Proceeds-Furn/Fxtr/Eq		3,024		15,877		20,000		12,967
	3650003 Sale-Scrap		12,097		2,360		6,000		6,819
43	3699350 Refund Of Prior Yrs Exp		512		36,405		-		12,306
	3699991 Other Miscellaneous Revenue		5,101 739,254		5,473		10,000 682,000		6,858
	3898351 Cap Con-Pvt-Swr Connectn 3621008 Rent-Bldg/Space		188,650		545,041 193,772		198,000		655,432 193,474
	3840000 Debt Proceeds Rev		151,265		193,112		190,000		50,422
	3815001 Transfer from BTS		-		4,090		-		1,363
49	3313901 Fed Grant-Other Physical Environ		-		10,557		-		3,519
50	3693099 Miscellaneous Settlements		-		86,923		-		28,974
	Total Other Operating Revenue	\$	6,204,727	\$	5,870,708	\$	7,265,060	\$	6,446,832
52	TOTAL OFF-SETTING REVENUES - SEWER COLLECTION & TRANSMISSION	\$ 1C	6,567,126	\$	6,156,145	\$	7,467,060	\$	6,730,110
	TOTAL OFF-SETTING REVENUES - COMBINED SEWER SYSTEM	•	10,869,133	•	10,526,797	\$	12,971,317	\$	11,455,749

⁽¹⁾ Based upon the 3-year average of total expenses allocated to Sewer Treatment & Disposal.



⁽²⁾ Allocation between Sewer Treatment & Disposal and Sewer Collection & Transmission based on allocation of revenue requirement, shown in Schedule 1.

⁽³⁾ Based upon the 3-year average of total expenses allocated to Sewer Collection & Transmission.

Appendix E – Reclaimed Water Cost of Service

Appendix E RECLAIMED WATER COST OF SERVICE

Schedule 1 Water	Allocation of Sewer System Operating & Administrative Expenses to Reclaimed
Schedule 2	Reclaimed Water Cost Allocation Factors
Schedule 3	Allocation of New Capital Costs to Reclaimed Water
Schedule 4	Historical Capital Investment in Reclaimed Water
Schedule 5	Reclaimed Water System Test Year Expense Allocation of Functional Components
Schedule 6	FY 2023 Cost Allocation Summary – Reclaimed Water System



ALLOCATION OF SEWER SYSTEM OPERATING & ADMINISTRATIVE EXPENSES TO RECLAIMED WATER

								C	PE	RATING & MA	/IN	TENANCE E	ΧP	ENSES								
	Maintenance North & SCADA South		SCADA			ı	Monitoring		South Operations outh Cross)	Eı	Code nforcement		Wholesale Vastewater	North Operations (Dunn)		(Water)		Field Services			echnical Services	
		431250		431330		431340		431350		431360		431370		435110		435120		435130		431070		431240
FY 2023 TEST YEAR (1)	\$	7,840,081	\$	1,003,878	\$	1,841,802	\$	1,980,646	\$	19,508,701	\$	46,747	\$	1,789,000	\$	7,598,535	\$	30,000	\$	979,820	\$	180,582
Allocation Criteria		WTD		EST		EST		WTD		EST		RW		S		EST		RW		CUS		WTD
Sewer Allocation % Reclaimed Allocation %		85.7% 14.3%		90.0% 10.0%		90.0% 10.0%		85.7% 14.3%		85.0% 15.0%		0.0%		100.0%		85.0% 15.0%		0.0% 100.0%		75.5% 24.5%		85.7% 14.3%
Sewer Costs Reclaimed Costs	\$	6,717,731 1,122,350	\$ \$	903,490 100,388	\$ \$	1,657,622 184,180	\$ \$	1,697,105 283,540	\$ \$	16,582,396 2,926,305	\$ \$	46,747	\$ \$	1,789,000	\$ \$	6,458,754 1,139,780	\$ \$	30,000	\$ \$	739,363 240,457	\$ \$	154,730 25,851

⁽¹⁾ FY 2023 Test Year expenses are based on FY 2023 Proposed Budget. Personnel Services are executed at 95% while Capital Outlay and Fixed Operating and Maintenance expenses are executed at 100% per staff direction.

		_	GENERAL &	ADI	MINISTRATI	VΕ	EXPENSES			
·	 /arehouse Support	Ad	Water & Sewer ministration		ilities Data anagement	E	Utilities Engineering		Customer Service	TOTAL O&M
	431040		431130		431335		431050	4	431085	
FY 2023 TEST YEAR (1)	\$ 583,925	\$	7,209,302	\$	486,038	\$	11,333,583	\$	3,855,923	\$ 66,268,561
Allocation Criteria	FA		WTD		WTD		CIP		CUS	
									•	
Sewer Allocation %	82.1%		85.7%		85.7%		89.1%		75.5%	85.68%
Reclaimed Allocation %	17.9%		14.3%		14.3%		10.9%		24.5%	14.32%
						1				
Sewer Costs	\$ 479,447	\$	6,177,251	\$	416,459	\$	10,098,861	\$	2,909,645	\$ 56,781,854
Reclaimed Costs	\$ 104,478	\$	1,032,051	\$	69,579	\$	1,234,722	\$	946,278	\$ 9,486,707

Reclaimed Water Cost Allocation Factors

Schedule 2

Allanation Cuitania	0-4-	C	Destricted	0	Da alaim ad 0/
Allocation Criteria	Code	Sewer	Reclaimed	Sewer %	Reclaimed %
FY 22 Revenues	REV	79,542,436	7,325,289	91.6%	8.4%
FY 22 Flows (in 1,000 gallons)	FLO	8,715,421	7,112,684	55.1%	44.9%
Customer Count	CUS	70,964	23,079	75.5%	24.5%
CIP	CIP	559,439,616	68,399,049	89.1%	10.9%
Fixed Assets	FA	871,207,870	189,847,255	82.1%	17.9%
Sewer Only	S			100.0%	0.0%
Reclaimed Only	RW			0.0%	100.0%
50% / 50%	50%			50.0%	50.0%
0% / 0%	0%			0.0%	0.0%
Weighted Average	WTD	41,618,578	6,953,335	85.7%	14.3%
Staff Estimate	EST			Input	Input

REUSE FLOW AND CUSTOMER COUNT CALCULATION

Customer	Flows (kgals)	Customers
Belleair	159,288	1
Pinellas Park	930,281	1
S. Pasadena	1,386,037	1
St. Pete Beach	940,244	1
Total Wholesale	3,415,850	4
Retail	3,696,834	23,075
Total	7,112,684	23,079
Retail Monthly Use / Account (kgals)	13,351	



ALLOCATION OF NEW CAPITAL COSTS TO RECLAIMED WATER

		TOTAL	% Sewer	% Reuse
9	CAPITAL PROJECT			
1	000744A-Facility Miscellaneous Improvements	\$ 1,693,000	100%	0%
2 3	000847A-South Cross Bayou Wastewater Treatment Facility Upgrades and Replacement 001057A-General Upgrades to Supervisory Control and Data Acquisition (SCADA)	3,418,000 5,082,000	100% 100%	0% 0%
4	002149A-Logan Laboratory Improvements	814,870	100%	0%
5	002149A-Logan Laboratory Improvements	3,514,130	100%	0%
6	002166A-South Cross Bayou Dewatering Improvements	10,090,000	100%	0%
7	002937A-South Cross Bayou Aeration Improvements	7,665,000	100%	0%
8 9	002938A-South Cross Bayou Bio Solids Process Train Improvements 002941A-South Cross Bayou High Service Pump Improvements	9,450,000 6,950,000	100% 0%	0% 100%
10	002944A-South Cross Bayou Grit Facility Improvements	8,054,000	100%	0%
11	003407A-South Cross Bayou Pavement Rehabilitation	750,000	100%	0%
12	003408A-South Cross Bayou Denitrification Filter Rehab	10,040,000	100%	0%
13	003408A-South Cross Bayou Denitrification Filter Rehab	216,000	100%	0%
14 15	003756A-SCB Plant Lighting Upgrades	1,502,000	100% 100%	0%
16	003758A-South Cross Bayou Influent Pump Station Improvements 003759A-South Cross Bayou Operations and Control Building Improvements	3,000,000 600,000	100%	0% 0%
17	003763A-Utilities Facilities Security	546,000	100%	0%
18	003765A-Programmable Logic Controller Upgrades	5,511,100	100%	0%
19	004143B-Regional Resource Recovery Facility	7,000,000	100%	0%
20	004358A-South Cross Bayou Digester Gas Flowmeter Installation	1,618,000	100%	0%
21 22	004359A-South Cross Bayou North and South Train Primary Clarifier Improvements 004360A-Pump Station 016 Improvements	1,665,000 5,550,000	100% 100%	0% 0%
23	004368A-South Cross UV Disinfection System Replacement	5,500,000	100%	0%
24	004489A-SCB Roofing replacements-Multiple Buildings	550,000	100%	0%
25	004574A-FDOT Utility Relocation US 19 From CR 95 to Pine	870,500	100%	0%
26	004575A-FDOT Utility Relocation US 19 from Nebraska Av to Timberlane Rd 433797-1	607,500	100%	0%
27 28	004576A-FDOT Utility Relocation US 19 from Timberlane Rd. to Lake St. 433796-1 004903A-South Cross Bayou Fiber Optic Upgrades	7,500 632,000	100% 100%	0% 0%
29	004904A-South Cross Bayou Pilleti Optic Opgrades	1,640,000	100%	0%
30	004905A-South Cross Bayou Reclaim Water Storage Tanks Rehabilitation	640,000	100%	0%
31	004906A-South Cross Bayou Electrical Switchgear Replacement	6,110,000	100%	0%
32	005220A-Utilities Generator Buildings Sprinkler Installations	188,000	100%	0%
33 34	005221A-Pump Station 182 Rehabilitation	2,915,000	100% 100%	0% 0%
35	005222A-Logan Utilities Operations Center Building 005226A-South Cross Bayou Building Hardenings for the Operations Support Center and Dewatering Building	4,117,000 361,250	100%	0%
36	005226A-South Cross Bayou Building Hardenings for the Operations Support Center and Dewatering Building	738,750	100%	0%
37	000700B-Westwinds Dr. Bridge Replacement-Utility Relocations	55,000	100%	0%
38	000702B-Crosswinds Dr. Bridge Replacement-Utility Relocations	24,000	100%	0%
39	000791A-FDOT Relocation Projects Miscellaneous	700,000	100%	0%
40 41	000831A-Water, Sewer and Reclaimed Water Relocation Projects 000852A-W.E. Dunn Wastewater Treatment Facility Upgrades and Repair and Replacement	700,000 4,028,000	0% 100%	100% 0%
42	000964A-Sanitary Sewer Pump Station Rehabilitation & Improvements	16,873,000	100%	0%
43	001035B-Oakwood Dr. Bridge Replacement Utility Relocations	133,000	100%	0%
44	001177D-Lakeshore Estates Road and Drainage Improvements Phase II Utilities Relocations	211,000	100%	0%
45	001333B-North Highland Avenue Water and Sewer Improvements Phase I	552,000	100%	0%
46 47	001523A-FDOT US19 Northside to CR95 001814A-Sanitary Sewer Manhole Rehab Project	100,000 2,500,000	100% 100%	0% 0%
48	001814C-Sanitary Sewer Manhole Rehabilitation FY22-23	640,000	100%	0%
49	001817B-Crystal Beach Water, Sewer and Reclaim Water Relocations Along Grace St., Seafford Ave., Disston St.	223,000	100%	0%
50	001933A-Sanitary Sewer Cured In Place Pipe Lining	12,350,000	100%	0%
51	001933D-Annual Sewer CIPP-Tarpon Springs, Palm Harbor, Curlew City	2,700,000	100%	0%
52 53	001933E-Annual Sewer CIPP-Bardmoor, Kenneth City 001933F-Annual Sewer CIPP-Belleair, Belleair Bluffs	980,000 2,505,000	100% 100%	0% 0%
54	001933G-Annual Sewer CIPP-Ridgewood, Oakhurst, Belleair Beach, N. Lake Seminole	5,183,000	100%	0%
55	002063B-Starkey Road Utility Relocation from Flame Vine Ave to Bryan Dairy Road	3,170,000	100%	0%
56	002069F-62nd Ave N & 25 St N. Intersection and Sidewalk Improvements Utility Relocations	57,000	100%	0%
57	002131B-46th Ave N Sidewalk Improvements from 49th St to 37th St Utility Relocation	110,000	100%	0%
58 59	002160A-Pump Station 016/Park Blvd Force Main to South Cross Bayou Replacement 002232B-Indian Rocks Road Sidewalk Improvements Phase 2B From Church Creek to 8th Avenue SW-Utilities Relo	3,696,000 60,000	100% 100%	0% 0%
60	002346B-Indian Rocks Sewer CIPP-Phase 1	1,600,000	100%	0%
61	002690B-Utility Relocation for 62nd St @ 142nd Ave Intersection Improvements	32,000	100%	0%
62	002747C-Sewer Interceptor Rehabilitation 94th Ave to 86th Ave	200,000	100%	0%
63	002747F-Sanitary Sewer Interceptor Pipe Rehabilitation-Bee Pond Road	1,355,800	100%	0%
64 65	002747G-Sanitary Sewer Interceptor Pipe Rehabilitation-109th St.	1,321,000	100%	0%
66	002747H-Sanitary Sewer Interceptor Pipe Rehabilitation -74th Ave 002747I-Sanitary Sewer Interceptor Pipe Rehabilitation -Lealman	590,000 2,028,000	100% 100%	0% 0%
67	002747J-Sanitary Sewer Interceptor Pipe Rehabilitation-Hamlin Blvd and 46th Ave	1,489,800	100%	0%
68	002747K-Sanitary Sewer Pipe Rehabilitation-Seminole By-Pass Canal 10"	1,313,000	100%	0%
69	002927B-46th Avenue North Utility Relocation Sidewalk Design & Roadway Improvements From West Drainage Outfa	610,000	100%	0%
70 71	002936B-Corey Causeway Bridge 20 Inch Reclaimed Water Main Replacement	167,000	100%	100%
71 72	003122B-Dunn Filtration and Disinfection Improvements 003123J-ARV Hamlin Road and Nearby Design	16,080,000 2,175,000	100% 100%	0% 0%
73	003123L-ARV Highland Ave	150,000	100%	0%
74	003142A-Pump Station No. 357 Upgrades and Force Main Improvements	44,000	100%	0%

ALLOCATION OF NEW CAPITAL COSTS TO RECLAIMED WATER

		TOTAL	% Sewer	% Reuse
	CARITAL RROLLFOT			
	CAPITAL PROJECT		4000/	00/
75	003147A-Pinellas Park Interceptor Collection System Improvements	8,772,000	100%	0%
76	003204I-Ridgewood Sewer Improvements	2,531,000	100%	0%
77	003205A-Pump Station 079 Improvements (North Redington Beach)	5,770,000	100%	0%
78	003210H-Force main and ARV Replacement-Klosterman Road and Disston	708,000	100%	0%
79	003239A-Pump Station and Collection System Odor Control Equipment	1,514,000	100%	0%
80	003409A-Dunn Electrical Upgrades	12,300,000	100%	0%
81	003430A-Dunn Dewatering Improvements	6,600,000	100%	0%
82 83	003431A-Dunn Pond Liner Replacement 003432A-Dunn Odor Control System	6,100,000 300,000	100%	100% 0%
84	003605A-Gravity Sewer Ductal Iron Pipe Rehab Program throughout the County	69,500,000	100%	0%
85	003605B-Gravity Sewer Ductile Iron Pipe Rehabilitation Lansbrook	900,000	100%	0%
86	003746A-WED Grit Capture System Improvements	5,800,000	100%	0%
87	003747A-WE Dunn Offsite Reclaim Pump Station Improvements	7,542,000	0%	100%
88	003748A-Gulf Blvd. Relocations @ the Narrows	234,000	50%	50%
89	003750A-WE Dunn Internal Recycle Pump Station Rehabilitation	9,440,000	100%	0%
90	003760A-North County Force Main Improvements	7,950,000	100%	0%
91	003761A-Force Main Capacity Improvements-Highland Lakes FM	7,600,000	100%	0%
92	003762A-Pump Stations Generator Improvements	7,483,000	100%	0%
93	003769A-Advanced Metering Infrastructure (AMI) Reclaimed Water Meters	12,993,000	0%	100%
94	003896B-Crystal Beach Utility Relocation and Replacement Associated with Drainage and Roadway Improvements	550,000	100%	0%
95	004354A-Pinellas Trail Loop North Segment Utility Relocations	120,000	100%	0%
96	004361A-WE Dunn Fall Protection Installation	1,602,000	100%	0%
97	004362A-WED Operations Building Modifications	2,000,000	100%	0%
98	004363A-Chesnut Park Managed Aquifer Recharge Project	1,100,000	0%	100%
99	004364A-Chesnut Park Aquifer Storage and Recovery System Project	2,680,000	100%	0%
100	004364A-Chesnut Park Aquifer Storage and Recovery System Project	12,938,000	0%	100%
101	004365A-Dunn Exploratory Well	7,100,000	100%	0%
102	004478F-Bryan Dairy at Lake Seminole Bypass Canal 8-Inch F.M. Replacement	89,000	100%	0%
103	004478G-3343 Crescent Oaks Blvd Gravity Sewer Main Replacement	1,301,000	100%	0%
104	004495A-72nd Terrace Gravity Sewer and 72nd Avenue Gravity Interceptor Upgrade	5,175,000	100%	0%
105	004532A-CR 95 Force Main Replacement/Relocation	999,000	100%	0%
106	004540B-West Bay Drive Utility Relocation and Replacement	406,000	100%	0%
107	004572A-Marlin Drive Utility Relocation for City of Belleair Bluffs Roadway Improvements	738,000	100%	0%
108	004578A-Building Hardening-General Maintenance Building South	182,660	100%	0%
109	004578A-Building Hardening-General Maintenance Building South	311,340	100%	0%
110	004907A-Force Main and ARV Replacements- 20\201D Force Main Camelot Court	2,490,000	100%	0%
111	004908A-Force Main and ARV Replacements-30\201D Force Main Pinellas Trail and Klosterman	8,250,000	100%	0%
112	004909A-62nd Street North Force Main Extension and Gravity Main Capacity Improvement	1,160,000	100%	0%
113	004911A-Bear Creek 14\201D Force Main Replacement Project	1,840,000	100%	0%
114	005015A-Manufactured Home Communities Wastewater Collection System Improvements	26,954,000	100%	0%
115	005015C-Manufactured Home Communities Wastewater Collection System Imp-Canal Crossings	1,900,000	100%	0%
116	005217A-North County Supplemental Reclaim Water Supply	5,690,000	0%	100%
117	005219A-Forelock/Mistwood Force Main Replacement from Lift Station 387	2,140,000	100%	0%
118	005225A-Find and Fix Pipe Lining and Private Sewer Laterals	25,500,000	100%	0%
119	005229A-Pump Station 327 Rehabilitation	2,330,000	100%	0%
120	005582A-24 in Force Main Replacement at 53rd Avenue and Duhme Rd.	2,750,000	100%	0%
121	005584A-Countywide Concrete Force Main Replacement	9,125,000	100%	0%
122	006052A-Septic to Sewer Program Phase 1	10,000,000	100%	0%
123	WW Collection System	_	100%	0%
124	Unspecified Upcoming Projects	68,236,000	88%	12%
	C. opening Copening 1 (Special	00,200,000	0070	,
125	Capital Outlay	41,832,465	86%	14%
126	Total Capital Improvement Plan (Current \$)	\$ 627,838,665	!	
.20		, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
127	Capital Improvement Plan Total	\$ 586,006,200		
	Capital Outlay Total	\$ 41,832,465		
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
129	Sewer Project Costs	\$ 559,439,616		
	Reclaimed Projects Costs	\$ 68,399,049		
	Total	\$ 627,838,665	-	
		,,	-	
	Portion Attributed to Reclaimed:	10.89%		

HISTORICAL CAPITAL INVESMENT IN RECLAIMED WATER

Schedule 4

	As	of 9/30/2017
Fixed Assets		189,847,255
Less: Estimated Grant Funding/Contributed Capital (1)	\$	(29,030,703)
Total Historical Investment		160,816,552

	% Bond Funded	% C	ash Funded
Allocation %	80.0%		20.0%
Assumed Term of the Debt (Years)	30		50
Assumed Interest Rate	3.00%		N/A
Annual Debt Service	\$ 6,563,793		N/A
Annual Depreciation	N/A	\$	643,266

Total Annual Amortization \$ 7,207,059

(1) Represents reimbursements from Southwest Florida Water Management District, Indian Rocks Beach, Bay Pines, and estimated contributed capital.



RECLAIMED WATER SYSTEM TEST YEAR EXPENSE ALLOCATION TO FUNCTIONAL COMPONENTS

	<u>FY</u>	2023 Test Year	Allocation Factor	Customer	Treatment/ Production	Transmission	Distribution	HSP & Storage	<u>Total</u> <u>Allocation</u>	\$ Customers	\$ Treatment/ Production	\$ Transmission	\$ Distribution \$	HSP & Storag
OPERATING & MAINTENANCE EXPENSES:														
431250 Maintenance North & South	: \$	1,122,350	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	\$ -	841.763			280,588
431330 SCADA	Ψ	100,388	LF of Pipe	0.0%	0.0%	30.3%	69.7%	0.0%	100.0%	Ψ -	041,703	30.395	69.992	200,300
431340 Laboratory		184,180	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	_	138,135	30,393	09,992	46,045
431350 Monitoring		283,540	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	_	212,655	-	-	70,885
431360 South Operations (South Cross)		2,926,305	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	_	2,194,729	-	-	731,576
431370 Code Enforcement		46.747	Customer	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	46.747	2,194,729	-	-	731,576
435110 Wholesale Wastewater		40,747	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	40,747	-	-	-	-
435120 North Operations (Dunn)		1.139.780	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	-	- 854.835	-	-	284,945
435130 Purchase of Reclaim (Water)		30.000	Production	0.0%	75.0%	0.0%	0.0%	25.0%	100.0%	-	22.500	-	_	7.500
431070 Field Services		240.457	LF of Pipe	0.0%	0.0%	30.3%	69.7%	0.0%	100.0%	-	22,500	72.805	- 167.651	7,500
431240 Technical Services		25.851	LF of Pipe	0.0%	0.0%	30.3%	69.7%	0.0%	100.0%	-	-	72,803	18.024	-
		25,651	LF 01 Pipe	0.0%	0.0%	30.376	09.7%	0.0%	100.0%	-	-	1,021	10,024	
TOTAL RECLAIMED O&M EXPENSES	\$	6.099.599								\$ 46,747	\$ 4.264.617	\$ 111.028	\$ 255.668 \$	1,421,539
	•	0,000,000								0.8%	69.9%	1.8%	4.2%	23.3%
GENERAL & ADMINISTRATIVE EXPENSES:	:	_												
431040Warehouse Support	\$	104,478	Weighted	13.5%	32.8%	15.9%	17.1%	20.7%	100.0%	\$ 14,073	34,235	16,658	17,905	21,605
431130 Water & Sewer Administration		1,032,051	Weighted	13.5%	32.8%	15.9%	17.1%	20.7%	100.0%	139,019	338,184	164,556	176,871	213,421
431335Utilities Data Management		69,579	Weighted	13.5%	32.8%	15.9%	17.1%	20.7%	100.0%	9,372	22,800	11,094	11,924	14,388
431050 Utilities Engineering		1,234,722	CIP	28.7%	31.2%	0.0%	1.4%	38.8%	100.0%	354,037	384,851	-	16,974	478,860
431085Customer Service		946,278	Customer	100.0%	0.0%	0.0%	0.0%	0.0%	100.0%	946,278	-	-	-	-
TOTAL GENERAL & ADMIN		0.007.400								£ 4 400 700	A 700.074	£ 400.000	£ 000.074.6	700.07
EXPENSES	\$	3,387,108								\$ 1,462,780	\$ 780,071	\$ 192,308	\$ 223,674 \$	728,275
CAPITAL COSTS:														
New Capital	\$	4.861.861	CIP	28.7%	31.2%	0.0%	1.4%	38.8%	100.0%	\$ 1.394.061	1,515,395	_	66.837	1,885,568
Historical Capital		7,207,059	Fixed Assets	0.0%	7.0%	43.5%	43.7%	5.9%	100.0%	-	503,304	3,133,606	3,147,979	422,171
TOTAL CAPITAL COSTS	\$	12,068,921							'	\$ 1,394,061	\$ 2,018,699	\$ 3,133,606	\$ 3,214,815	2,307,739
Total Expenditures	\$	21,555,627								\$ 2,903,588	\$ 7,063,387	\$ 3,436,942	\$ 3,694,157 \$	4,457,554
% Allocation by Function										13.5%	32.8%	15.9%	17.1%	20.7%
•			· ·											

FY 23 Revenue vs Expenses

FY 2023 Cost Allocation Summary - Reclaimed Water System

Revenues

Schedule 6

			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Reclaimed Water	\$ 7,734,040	\$ 21,555,627	35.9%	
Total	\$ 7,734,040	\$ 21,555,627		
RECLAIMED COST ALLOCATION	O&M	Capital	Total	cos %
Customer	\$ 1,509,527	1,394,061	\$ 2,903,588	13.5%
Treatment/ Production	5,044,688	2,018,699	7,063,387	32.8%
Transmission	303,336	3,133,606	3,436,942	15.9%
Distribution	479,342	3,214,815	3,694,157	17.1%
HSP & Storage	2,149,814	2,307,739	4,457,554	20.7%
Total Cost Allocation	\$ 9,486,707	12,068,921	\$ 21,555,627	100.0%

Expenses

% Recovery



					UNITS	OF	SERVICE			
	TREATMENT	П	RANSMISSION	L	DISTRIBUTION	HS	P & STORAGE		CUSTOMER	TOTAL
Units of Service	1,000 gals		1,000 gals		1,000 gals		1,000 gals		Bills	IOIAL
Retail	3,696,834		3,696,834		3,696,834		3,696,834		138,450	
Wholesale	3,415,850		3,415,850						24	
Retail Allocation	\$ 3,671,212	\$	1,786,358	\$	3,694,157	\$	4,457,554	\$	2,903,085	\$ 16,512,366
Wholesale Allocation	\$ 3,392,175	\$	1,650,583	\$	-	\$	-	\$	503	\$ 5,043,262
Total Allocation	\$ 7,063,387	\$	3,436,942	\$	3,694,157	\$	4,457,554	\$	2,903,588	\$ 21,555,627
	per kgal		per kgal		per kgal		per kgal	per	bi-monthly bill	
Unit Cost of Service (COS)	\$0.99		\$0.48		\$1.00	N	\$1.21		\$20.97	

Appendix F – Proposed Rates and Customer Bill Impacts

Appendix F PROPOSED RATES AND CUSTOMER BILL IMPACTS

Schedule 1 Proposed Water and Sewer Rates: FY 2024 – FY 2027

Schedule 2 Proposed Reclaimed Water Rates: FY 2024 – FY 2027

Schedule 3 FY 2024 Residential Customer Water & Sewer Bill Impacts

Schedule 4 FY 2024 Commercial Customer Water & Sewer Bill Impacts

Reclaimed Water Customer Bill Impacts



Proposed Water and Sewer Rate Schedules: FY 2024- 2027

Proposed Water Rates	FY 202	4	FY 2025	FY 2026	FY 2027
Retail Water Rates	1 1 202		0_0	2020	202.
Base Rate (per customer per month):					
3/4"	\$ 8	05	\$ 9.30	\$ 10.55	\$ 11.80
1"	\$ 20	13	\$ 23.25	\$ 26.38	\$ 29.50
1 1/2"	\$ 40	25	\$ 46.50	\$ 52.75	\$ 59.00
2"	\$ 64	40	\$ 74.40	\$ 84.40	\$ 94.40
3"	\$ 128	80	\$ 148.80	\$ 168.80	\$ 188.80
4"	\$ 201		\$ 232.50	\$ 263.75	\$ 295.00
6"	\$ 402		\$ 465.00	\$ 527.50	\$ 590.00
8"	\$ 644	00	\$ 744.00	\$ 844.00	\$ 944.00
Residential/Multi-Family					
Volumetric Rates (per 1,000 Gallons) ³					
Block 1 (0 - 4,000 Gallons)	\$ 3	83	\$ 3.93	\$ 4.05	\$ 4.18
Block 2 (4,000+ Gallons)	\$ 8	69	\$ 8.94		\$ 9.51
			,	,	•
Non-Residential					
Volumteric Rate (per 1,000 Gallons)	\$ 5	26	\$ 5.41	\$ 5.57	\$ 5.76
Wholesale					
Volumteric Rate (per 1,000 Gallons)	\$ 4.5	57	\$ 4.7415	\$ 4.9786	\$ 5.2275
Proposed Sewer Rates	FY 202	4	FY 2025	FY 2026	FY 2027
Retail Sewer Rates					
Base Rate (per month) ¹	\$20	43	\$21.25	\$22.10	\$22.98
Volumetric Rate (per 1,000 Gallons) ²	\$7	46	\$7.76	\$8.07	\$8.39
Wholesale Sewer Rates					
Volumetric Rate (per 1,000 Gallons)	\$6.18	90	\$6.1890	\$6.1890	\$6.1890

¹ Per Customer per month for residential customers, and per 5,000 gallons per month for commercial accounts.

³ Blocks are scaled by the number of units



² Residential billed volume is capped at 10,000 gallons per month

Reclaimed Water Rate Schedule: FY 2024 - FY 2027

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Description	Rate Types	FY 2024 FY		FY 2025		FY 2026		FY 2027	
			Rates	F	Rates		Rates		Rates
Retail		Proposed							
Funded/Un-Metered	Monthly User Fee	\$	23.00	\$	24.00	\$	25.00	\$	26.00
Funded/On-Metered	Bi-Monthly Billing Charge	\$	3.75	\$	3.75	\$	3.75	\$	3.75
	Manthly Hear Co.	<u> </u>	23.00	Φ.	24.00	ው	25.00	Φ.	26.00
Unfunded/Un-Metered	Monthly User Fee Monthly Availability Charge	\$	7.00	\$	24.00 7.00	\$ \$	25.00 7.00	\$ \$	26.00 7.00
omunded/on-wetered	Bi-Monthly Billing Charge	\$	3.75	\$	3.75	<u>\$</u>	3.75	<u>φ</u> \$	3.75
	BI-MOTITILY BIIIII G Charge	Ψ	3.73	φ	3.73	φ	3.73	φ	3.73
	Volumetric Rate (per KGAL) > 20 kgal per month	\$	1.69	\$	1.94	\$	2.23	\$	2.56
	Monthly Base Charge	\$	23.00	\$	24.00	\$	25.00	\$	26.00
Funded/Metered	Usage Allowance Included in Base Charge (Gal.)		20,000		18,000		16,000		15,000
	Bi-Monthly Billing Charge	\$	4.50	\$	4.50	\$	4.50	\$	4.50
	Metered Interruptible	\$	0.24	\$	0.28	\$	0.32	\$	0.37
	Volumetric Rate (per KGAL) > 20 kgal per month	\$	1.69	\$	1.94	\$	2.23	\$	2.56
	Monthly Base Charge	\$	23.00	<u>Ψ</u> \$	24.00	\$	25.00	\$	26.00
Unfunded/Metered	Usage Allowance Included in Base Charge (Gal.)	ΙΨ	20,000	Ψ	18,000	Ψ	16,000	Ψ	15,000
	Bi-Monthly Billing Charge	\$	4.50	\$	4.50	\$	4.50	\$	4.50
	Monthly Availability Charge	\$	7.00	\$	7.00	\$	7.00	\$	7.00
•	The state of the s	, ,				· ·		<u> </u>	
Wholesale									
Belleair	Metered Interruptible	\$	0.2433	\$	0.2798	\$	0.3218	\$	0.3701
Pinellas Park	Volumetric Rate (per KGAL)	\$	0.5750	\$	0.6613	\$	0.7604	\$	0.8745
South Pasadena	Volumetric Rate (per KGAL)	\$	0.5750	\$	0.6613	\$	0.7604	\$	0.8745
St. Pete Beach	Volumetric Rate (per KGAL)	\$	0.5750	\$	0.6613	\$	0.7604	\$	0.8745



FY 2024 Residential Customer Water & Sewer Bill Impacts

Schedule 3

3/4" Meter Water and Sewer Bill Calculations

Marchine Hay (Keel)		Draw and EV 2004 Dates		0/ 01
Monthly Use (Kgal)	FY 2023 Rates	Proposed FY 2024 Rates	\$ Chg.	% Chg.
0	\$26.44	\$28.48	\$2.04	7.7%
1	\$38.74	\$39.77	\$1.03	2.7%
2	\$51.04	\$51.06	\$0.02	0.0%
3	\$63.34	\$62.35	-\$0.99	-1.6%
4	\$75.64	\$73.64	-\$2.00	-2.6%
5	\$87.94	\$89.79	\$1.85	2.1%
6	\$100.24	\$105.94	\$5.70	5.7%
7	\$112.54	\$122.09	\$9.55	8.5%
8	\$124.84	\$138.24	\$13.40	10.7%
9	\$137.14	\$154.39	\$17.25	12.6%
10	\$149.44	\$170.54	\$21.10	14.1%
11	\$154.57	\$179.23	\$24.66	16.0%
12	\$159.70	\$187.92	\$28.22	17.7%
13	\$164.83	\$196.61	\$31.78	19.3%
14	\$169.96	\$205.30	\$35.34	20.8%
15	\$175.09	\$213.99	\$38.90	22.2%
16	\$180.22	\$222.68	\$42.46	23.6%
17	\$185.35	\$231.37	\$46.02	24.8%
18	\$190.48	\$240.06	\$49.58	26.0%
19	\$195.61	\$248.75	\$53.14	27.2%
20	\$200.74	\$257.44	\$56.70	28.2%
21	\$205.87	\$266.13	\$60.26	29.3%
22	\$211.00	\$274.82	\$63.82	30.2%
23	\$216.13	\$283.51	\$67.38	31.2%
24	\$221.26	\$292.20	\$70.94	32.1%
25	\$226.39	\$300.89	\$74.50	32.9%
26	\$231.52	\$309.58	\$78.06	33.7%
27	\$236.65	\$318.27	\$81.62	34.5%
28	\$241.78	\$326.96	\$85.18	35.2%
29	\$246.91	\$335.65	\$88.74	35.9%
30	\$252.04	\$344.34	\$92.30	36.6%



FY 2024 Non-Residential	Customer Water &	Sewer Bi	II Impact	S	Schedule 4			
	3/4" Meter Customer							
	Monthly Usage (Gallons)	FY 2023	FY 2024	% Change				
Low Usage	2,000	51.04	53.92	6%				
Medium Usage	5,000	87.94	92.09	5%				
High Usage	10,000	169.08	176.12	4%				
	1" M	eter Custome	er					
	Monthly Usage (Gallons)	FY 2023	FY 2024	% Change				
Low Usage	5,000	98.14	104.17	6%				
Medium Usage	15,000	260.42	272.24	5%				
High Usage	25,000	422.70	440.31	4%				
	2" M	2" Meter Customer						
	Monthly Usage (Gallons)							
Low Usage	20,000	378.96	400.55	6%				
Medium Usage	50,000	865.80	904.76	5%				
High Usage	100,000	1,677.20	1,745.13	4%				
	6" Meter Customer							
	Monthly Usage (Gallons)	FY 2023	FY 2024	% Change				
Low Usage	150,000	2,774.20	2,923.59	5%				
Medium Üsage	500,000	8,454.00	8,806.13	4%				
High Usage	1,500,000	24,682.00	25,613.39	4%				

Reclaimed Water Customer Bill Impacts

% of

Customers

5.2%

0.4%

91.5%

2.9%

\$ Change

\$ Change

Monthly Bill \$

Schedule 5

1.00

45.80

4.88

Bill Comparison Based on 20,000 Gallons per Month '										
Description	_	Y 2023 dopted)	-	Y 2024 oposed)	-	Y 2025 oposed)	_	FY 2026 (Proposed)		FY 2027 Proposed)
Monthly Bill	\$	22.00	\$	23.00	\$	24.00	\$	25.00	\$	26.00
\$ Change			\$	1.00	\$	1.00	\$	1.00	\$	1.00
Monthly Bill	\$	29.40	\$	23.00	\$	27.88	\$	33.92	\$	38.80
\$ Change			\$	(6.40)	\$	4.88	\$	6.04	\$	4.88
Monthly Bill	\$	29.00	\$	30.00	\$	31.00	\$	32.00	\$	33.00

1.00

34.88

4.88

1.00

6.04 \$

40.92

\$

\$

36.40

1.00

(6.40) \$

30.00

County Funded/Metered²³

Customer Type

Funded/Un-Metered

Funded/Metered²

Metered³

County Funded/Un-



¹Assumes customer also has water/sewer service

²Proposed rate structure for metered customers includes a base charge inclusive of a monthly usage allowance

³Includes \$7.00 availability fee

Appendix G – Local Bill Comparisons

Appendix G LOCAL BILL COMPARISONS

Schedule 1 FY 2023 Monthly Residential Water & Sewer Bill: 2,000 Gallons

Schedule 2 FY 2023 Monthly Residential Water & Sewer Bill: 5,000 Gallons

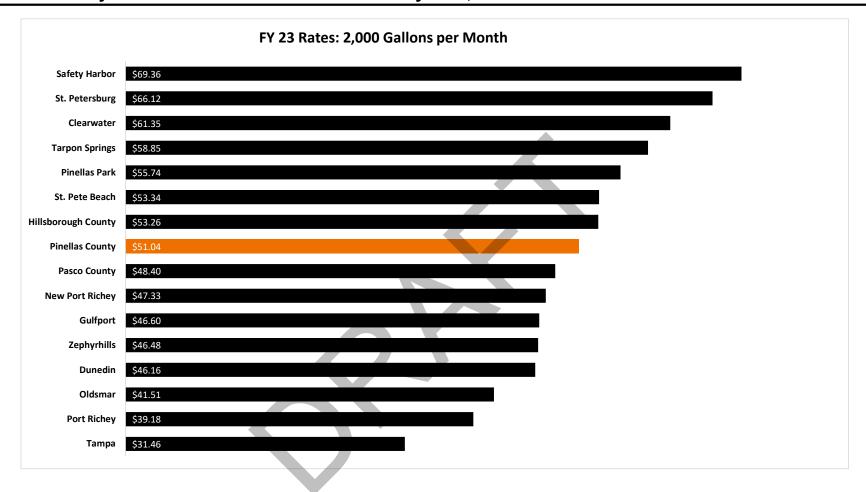
Schedule 3 FY 2023 Monthly Residential Water & Sewer Bill: 10,000 Gallons

Schedule 4 FY 2023 Monthly Reclaimed Water Bill: Unmetered Service

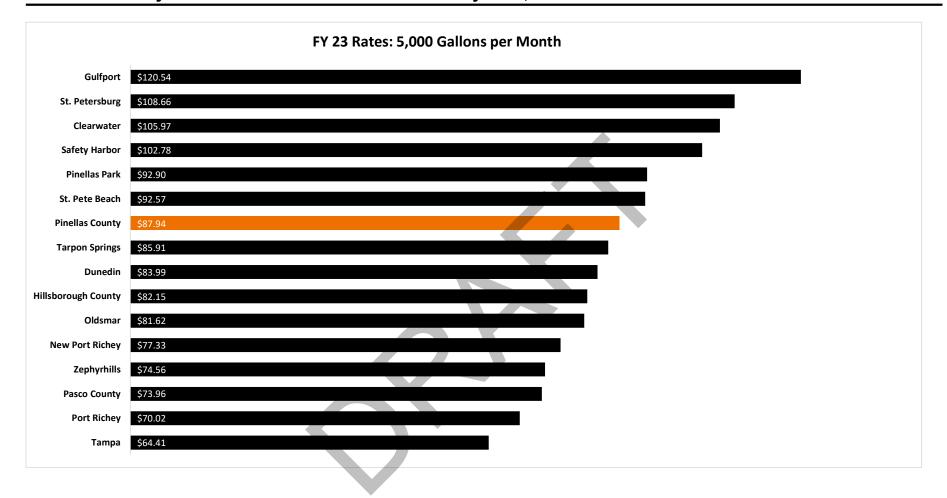
Schedule 5 FY 2023 Monthly Reclaimed Water Bill: Metered Service @ 20,000 Gallons



FY 2023 Monthly Residential Water & Sewer Bill Survey for 2,000 Gallons

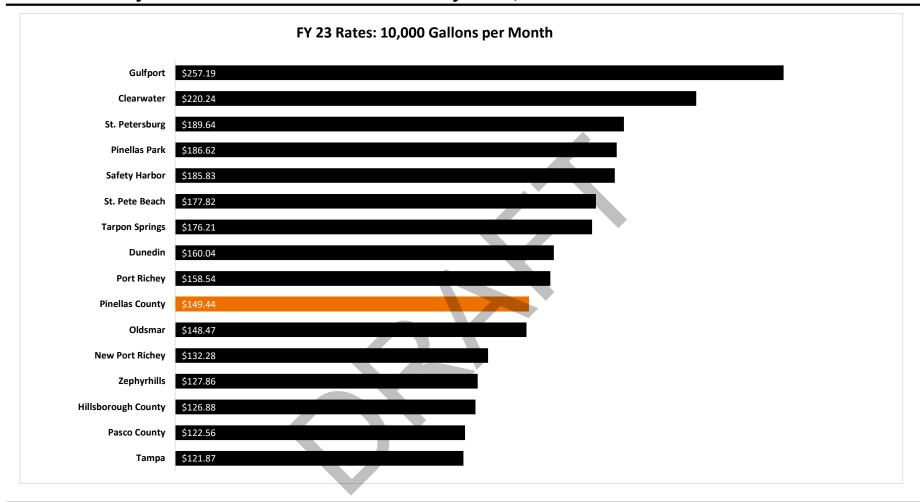


FY 2023 Monthly Residential Water & Sewer Bill Survey for 5,000 Gallons

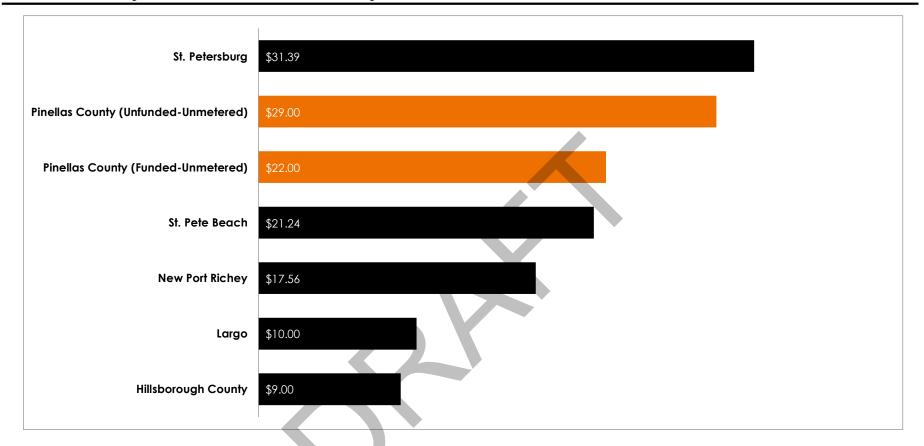




FY 2023 Monthly Residential Water & Sewer Bill Survey for 10,000 Gallons



FY 2023 Monthly Reclaimed Water Bill Survey for Unmetered Service



FY 2023 Monthly Reclaimed Water Bill Survey for Metered Services @ 20,000 Gallons

