

**To:** Mike Loftin, City of Galveston Finance Director   **From:** Stantec Consulting Services, Inc.  
**Re:** Water and Sewer 2018 Analysis                               **Date:** January 11, 2018

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The purpose of this technical memorandum is to present an overview of the concepts, methodology, and results of the revenue sufficiency analysis (RSA), rate design and miscellaneous fee update that was conducted for City of Galveston (City) by Stantec Consulting Services Inc (Stantec) in 2018.

## **1.0 BACKGROUND**

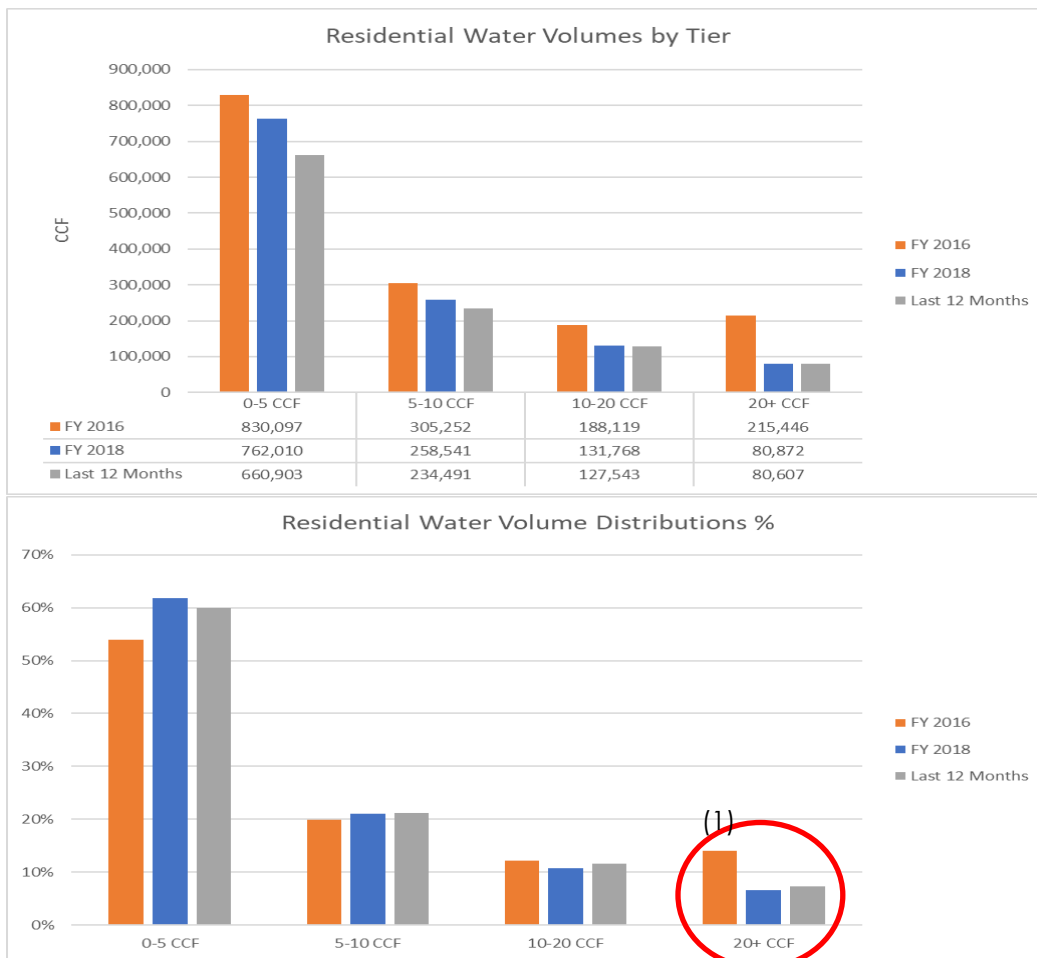
Stantec has worked with the City on annual basis since the last full water & sewer rate study in 2015. The annual efforts have consisted of a revenue sufficiency analysis to determine the ongoing sustainability of current utility (Water & Sewer) revenue levels. These efforts have reviewed the operational and capital needs of the water and sewer utilities in detail, working alongside City staff. In doing so a 10 year revenue requirement forecast has been generated that details the expected rate adjustment needs of the utility in each projection year. Additionally, sensitivities with regards to capital spending assumptions and debt issuance timing are tested. Through this process the utility is presented with a forecast of rate adjustment needs and a deep understanding of the utility's cost drivers.

These ongoing efforts combined with the City's proactive management of its utility fund have allowed for rate adjustment to be recommended to City management and council only when they are necessary to sustain the provision of water and wastewater services in the City of Galveston. This year's engagement with the City consisted of the following analysis which are detailed herein:

- **Water Conservation Analysis**  
This analysis used the City's historical billing data to understand the degree of water conservation that has taken place since the implementation of the inclining block rate structure in FY 2016.
- **Revenue Sufficiency**  
The revenue sufficiency analysis produced a ten-year forecast of the rate revenue adjustments necessary to provide for the sustainability of the water and sewer utility system.
- **Rate Structure Modifications**  
This section provides recommendations for rate structure adjustments that serve to enhance equity, defensibility and provide moderate conservation pricing.
- **Updated Miscellaneous fees**  
This section provides for the update and consideration of several customer specific fees based on current effort and cost data.

## 2.0 WATER CONSERVATION ANALYSIS

The first component of the analysis this year reviewed the residential customer class volumes since the implementation of the inclining block water rates (FY 2016). This effort was intent on identifying trends in consumption since the water rate structure modifications, which included a conservation pricing signal. Included below, are the graphical representations of the trends in volume and proportional volume for the residential rate class. Within the data there are two underlying trends of importance since the implementation of the inclining block rates which were placed into service to provide a conservation pricing signal to high volume users. First and most notably, the proportion of volume in the top tier of consumption (20+ CCF per month) has been curtailed (1). For the residential class, the top tier has lost 62% of its FY 2016 volume of 215,446 CCF. Additionally, the residential class in total has shown decreases in the volume billed, much of which is attributable to the top tier of volume loss.



## **RESULTS**

The water conservation analysis provided data driven observations that validate the effectiveness, in terms of curtailing discretionary water usage, of the conservation water rate structure. As can be clearly seen discretionary volumes in the higher volumetric tiers (20+CCF) have declined since the implementation of the rate structure and continue to be billed at sub 2016 levels. This finding confirms that the inclining block rate structure resulted in conservation of discretionary water use for the residential single-family class.

### **2.0 REVENUE SUFFICIENCY ANALYSIS**

The revenue sufficiency analysis sought to identify if current water and sewer revenue levels are sufficient to provide for the operations & maintenance, debt service, maintenance of reserves, debt coverage levels and the capital funding needs of the utility system over a multi-year projection period. If current revenue levels could not sustain the utility's needs in any year during the projection, the level of rate increase necessary were calculated and are presented herein. This year's analysis was conducted on the newly created joint water and sewer utility. The following sections detail the analysis and assumptions utilized to generate the ten-year forecast of rate revenue sufficiency. The appendix following the results sections provides the detailed calculations for the analysis.

### **KEY DATA SOURCES**

This analysis included the most current operational and capital budget information including:

#### **Operational Expenses**

This analysis used the FY 2018 full year estimates for revenues and expenditures in FY 2018. The FY 2019 budget was then used to for FY 2019 and escalated to account for inflation in each projected year thereafter. With the exception of annual Gulf Cost Water Authority (GCWA) purchased water cost. These cost were estimated in FY 2019 & FY 2020 using information provided by GCWA and City Staff, each year thereafter cost were inflated by 4% per annum. All other cost inflation assumptions are shown on schedule 2 of the appendix.

#### **Debt Service Expenses**

Current debt service was calculated based on the yearly amortization schedules for the Utility's existing debts. To the extent that new debt was required to finance a portion of the City's capital improvement plan, 30 year level debt was used to simulate the new annual debt service that would be required.

#### **Capital Improvement Expenses**

The City provided high level estimates for five year capital improvement expenses, inclusive of expected funding sources. This was used as the basis for projecting the rates necessary to provide the funding window for the capital program in each year. Of note the program includes \$126M in expected revenue bonds issuance.

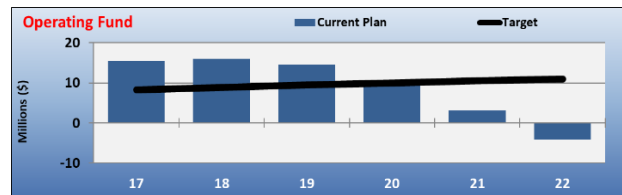
The information included above was entered into a 10 year rate revenue projection model and formed the basis of the revenue sufficiency analysis. The City’s main cost drivers stem from the pass-through cost from GCWA purchased water and new debt service associated with capital improvement spending. All expense and revenue data was based on current data and then projected into future periods using the most relevant information available and reviewed with City staff.

## RESULTS

Once populated with the most current data and assumptions the revenue sufficiency analysis reviewed the sufficiency of rate revenues for a multi-year projection period. It was found that current rate revenue levels cannot sustain the utility’s needs over a multiyear period and in the absence of a rate adjustment plan the utility is projected to be unable to maintain positive cash flow and deplete its reserve balances below the minimum target by FY 2021 as can be seen in figure 1. In order to sustain the utility a 7% revenue adjustment for water rates is recommended. (Figure 2) This increase is necessitated to provide a sustainable level of cash flow over the projection period and provide resources to support new debt service associated with the City’s capital improvement plan. The City has not had a rate revenue increases since FY 2016 and has avoided increases though proactive management. It is recommended that the City adopted a 7% increase in water rates effective Jan 2019. Additionally, the City requested several rate structure modifications to the current water rates, as such the next section of this report details the rates and bill impacts associated with the water rate structure modifications, inclusive of the 7% revenue increase described in this section.

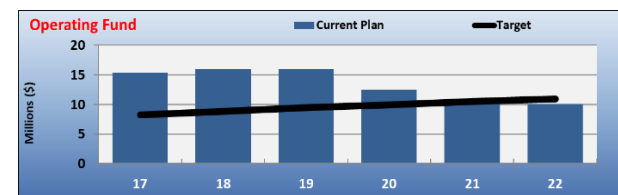
### A. No Adjustment

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Water Rate Increases	0.00%	0.00%	0.00%	0.00%	0.00%
Sewer Rate Increases	0.00%	0.00%	0.00%	0.00%	0.00%



### B. Sustainable Rate Adjustment Plan

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Water Rate Increases	0.00%	7.00%	0.00%	11.00%	8.00%
Sewer Rate Increases	0.00%	0.00%	0.00%	4.00%	3.00%



### 3.0 WATER RATE STRUCTURE ADJUSTMENTS

A component of the analysis this year considered water rate structure modifications. The structure modifications sought to recognize and incorporate two distinct components (1) the City has achieved conservation in terms of reduced irrigation volumes from the inclining block rates placed into service in FY 2016 and (2) the fixed cost recovery of the system (currently 18.5% of revenue) could be enhanced to provide for a more stable revenue base that provides resiliency in event of changes in billed volumetric demands.

#### Volumetric Rates

As it relates to the component of the water rates that charge for monthly usage the City has contemplated a change to the single-family residential rates that would reduce the conservation pricing signal. This would be accomplished by increasing tier 1 rates greater than tier 4 rates for single family residential customers such that the same overall revenue target according to the needs of the system in section 3 (7% adjustment for water) is met, but more revenue is collected in the lower tiers as compared to the higher tiers proportionately, than the current rate structure provides. The City requested this change to recognize the gains in the conservation accomplished over the past few years.

#### Fixed Monthly Rates

Additionally, each monthly water bill has a portion of the bill that is fixed or independent of use. The portion of the utility’s revenue that is recovered in this manner is commonly referred to as fixed cost recovery and provides stability to the utility’s revenue stream from adverse events such as wet weather that can reduce billed demands. The City currently collects 18.5% of all utility rate revenue from the fixed portion of the bill, while industry best practices support up to 30% fixed cost recovery. As such it is recommended that water rates be adjusted such that fixed cost recovery is increased. The proposed bill calculations shown below include fixed charges that would generate an increase of 1% in fixed cost recovery of water service over current rates and modify the conservation signaling in the water residential tiered rates as described herein. The City should strive to achieve additionally increases to fixed cost recovery levels in the future, while being sensitive to lower volume user impacts. The following table incorporates the recommended changes into a bill impact table for single family residential customers at bellwether usage levels.

Residential Water 5/8" Meter Water & Sewer Bill Calculations											
Monthly Use (CCF)	Monthly Use (CF)	Monthly Use (Gal)	Agg. Bills Issued %	Current Water	Proposed Water	Current Sewer	Proposed Sewer	Current FY 18	Proposed (JAN FY 19)	\$ Chg	% Chg
5	500	3,740	71.7%	\$17.64	\$19.68	\$30.20	\$30.20	\$47.84	\$49.88	\$2.04	4.3%
10	1,000	7,480	92.1%	\$37.89	\$41.93	\$47.30	\$47.30	\$85.19	\$89.23	\$4.04	4.7%
15	1,500	11,220	97.9%	\$68.29	\$73.03	\$64.40	\$64.40	\$132.69	\$137.43	\$4.74	3.6%

#### 4.0 MISCELLANEOUS SERVICE CHARGES

This section of the report presents the analysis of miscellaneous service charges that was completed as part of the Study. The City currently applies miscellaneous service charges in relation to the provision of specific services to individual customers. Turn on/off fees, tap fees, and unauthorized connections are examples of the types of services for which the City has service charges or fees. Stantec reviewed with staff the list of current miscellaneous fees, shown on the following page in the existing column. The existing fees were buttressed by the addition of new fees that were calculated in this study for consideration (column 2019).

The updated fees are presented in the table below. Charges and fees were calculated based on the detailed interviews with staff and the appendix at the end of this report that details the specific cost of activities related to the service delivery model of the City.

Description	Existing	2019
New Service	\$15.00	\$15.00
Transfer of Service	\$15.00	\$10.00
Damaged Mechanisms		\$211.00
Service Restoration		\$9.00
Returned Checks <sup>(1)</sup>		\$37.50
Re-reading of Meter		\$12.00
Pressure/Meter Testing		\$25.00
Meter Replacement		\$211.00
Unauthorized Tap <sup>(2)</sup>	\$500.00	\$500.00
Billing Records Profiles		\$15.00
Meter Removal		\$14.00
Portable Deposits <sup>(2)</sup>		4" Inch Meter Fixed Monthly Fixed
Portable Rental Fee <sup>(2)</sup>		4" Inch Meter Fixed Monthly Fixed
4" Sewer Tap	\$500.00	\$806.00
3/4" Water Tap	\$650.00	\$369.00
1" Water Tap	\$928.57	\$475.00
1 1/2" Water Tap	\$2,228.57	\$837.00
2" Water Tap	\$2,785.71	\$1,244.00

(1) Fees not charges

(2) Set by State Statute

Certain types of service are best priced on a fee basis and not a cost basis. These types of activities have a component that is not cost based or are seeking to influence behavior. Unauthorized taps are one such fee that has a cost for the City, but also represents a misuse of City resources and theft of product. As such its appropriate to set the fee for this behavior independent of cost such that the pricing signal deters the behavior. The City currently charges \$500 for this activity and that does provide a sufficient level of discouragement.

Portable rental fees should also be considered in light of pricing practices for normal customers. A portable meter represents one of the hardest demands to plan for as the meter is temporary and may be located anywhere in the City to serve a specific need. As such the pricing paradigm presented herein syncs up the fees for a portable with those of a normal customer. The proposed deposit should reflect an amount equal to one months fixed charge for a 4" water meter. Then there should exist an ongoing monthly fee equal to the current monthly fixed fee for a 4" water meter. The combination of these two fees properly protects the city and provides customer equity with regards to normal permanent customers.

## **Disclaimer**

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*In preparing this report, Stantec utilized information and data obtained from the City or public and/or industry sources. Stantec has relied on the information and data without independent verification, except only to the extent such verification is expressly described in this document. Any projections of future conditions presented in the document are not intended as predictions, as there may be differences between forecasted and actual results, and those differences may be material.*

*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 reliances 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 City 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.*



**5.0 APPENDIX A: FINANCIAL PLAN SUPPORTING SCHEDULES**

Schedule 1	Assumptions
Schedule 2	Cost Escalation Factors
Schedule 3	Customer and Usage Forecast
Schedule 4	Beginning Balances
Schedule 5	CIP
Schedule 6	Projection of Cash Outflows
Schedule 7	Projection of Cash Inflows
Schedule 8	FAMS Control Panel
Schedule 9	Pro Forma
Schedule 10	Funding Summary by Fund
Schedule 11	Long-Term Borrowing

**Assumptions**
**Schedule 1**

	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
<b>Annual Growth:</b>											
<b>Water</b>											
Number of ERUs (Residential, Sprinkler, and Non-Residential)	33,852	34,529	35,219	35,924	36,642	37,375	38,123	38,885	39,663	40,456	41,265
ERU Growth	N/A	677	691	704	718	733	748	762	778	793	809
ERU Growth %	N/A	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Annual Volume (CF)	359,705,506	363,230,620	366,790,280	370,384,825	374,014,596	377,679,939	381,381,203	385,118,738	388,892,902	392,704,052	396,552,552
Volume Growth	N/A	3,525,114	3,559,660	3,594,545	3,629,771	3,665,343	3,701,263	3,737,536	3,774,164	3,811,150	3,848,500
Volume Growth %	N/A	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%
<b>Sewer</b>											
Number of ERUs (Residential and Non-Residential)	27,389	27,937	28,495	29,065	29,647	30,240	30,844	31,461	32,090	32,732	33,387
ERU Growth	N/A	548	559	570	581	593	605	617	629	642	655
ERU Growth %	N/A	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Annual Volume (CF)	299,273,443	303,223,853	307,226,408	311,281,796	315,390,716	319,553,873	323,771,985	328,045,775	332,375,979	336,763,342	341,208,618
Volume Growth	N/A	3,950,409	4,002,555	4,055,389	4,108,920	4,163,157	4,218,111	4,273,790	4,330,204	4,387,363	4,445,276
Volume Growth %	N/A	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%
<b>Capital Spending:</b>											
Annual Capital Budget (Future Year Dollars)	\$ 3,409,988	\$ 62,129,385	\$ 27,399,838	\$ 36,933,755	\$ 24,230,000	\$ 20,063,925	\$ 3,424,493	\$ 3,457,760	\$ 3,357,312	\$ 3,291,913	\$ 3,328,295
Annual Percent Executed	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Reclaimed Water	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Average Annual Interest Earnings Rate:</b>											
On Fund Balances:	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%	1.50%
<b>Operating Budget Reserve:</b>											
Target (Number of Months of Reserve)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
<b>Operating Budget Execution Percentage:</b>											
Personal Services	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Variable O&M Expenses	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Fixed O&M Expenses	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%

Account	Account Title	Source:	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
511001	REGULAR PAYROLL	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511005	LONGEVITY	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511006	DIFFERENTIAL PAY	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511009	OVERTIME	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511021	PART-TIME PAYROLL	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511030	MARDI GRAS	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511125	RESIDENCY PAY	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511510	GROUP HEALTH INSURANCE - EMPLOYER'S	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511515	WORKER'S COMPENSATION	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511520	GROUP LIFE INSURANCE	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511530	SOCIAL SECURITY - EMPLOYER'S	City	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%
511535	MEDICARE - EMPLOYER'S	City	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%	1.45%
511542	CITY EMPLOYEE RETIREMENT	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
511650	SALARY REIMBURSEMENTS	City	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
521065	OFFICE SUPPLIES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
521067	MINOR OFFICE EQUIPMENT	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
521073	PRINTED MATERIALS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522011	CHEMICALS	EIA	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%
522013	CLOTHING	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522015	CONCRETE AND AGGREGATE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522025	FUEL AND LUBRICANTS	EIA	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%	7.70%
522037	JANITORIAL SUPPLIES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522038	SAFETY SUPPLIES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522055	MINOR TOOLS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522056	MINOR EQUIPMENT	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522065	PAINT AND LUMBER	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522075	PIPE AND PLUMBING SUPPLIES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
522085	EQUIPMENT PARTS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
525031	ELECTRICITY	EIA	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531004	CONSULTANT SERVICES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531005	OTHER SERVICES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531006	ATTORNEY'S FEES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531007	SECURITY SERVICE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531008	LABORATORY TESTING	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531025	MEMBERSHIPS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531027	CERTIFICATION & PERMIT FEES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531028	SOFTWARE LICENSES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531120	LOT MAINTENANCE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531124	TOWING PAYMENTS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531125	OTHER CONTRACTS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531220	BUILDING REPAIRS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531230	EQUIPMENT REPAIRS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531240	MAINTENANCE CONTRACTS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531310	RENTAL OF LAND & BUILDINGS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531320	EQUIPMENT RENTAL	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531350	GARAGE CHARGES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
531360	COMPUTER CHARGES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532062	POSTAGE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532065	PRINTING, DUPLICATION	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532066	PRINT SHOP CHARGES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532083	TELEPHONE SERVICE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532084	CELLULAR SERVICE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532085	PAGER SERVICE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532086	OTHER COMMUNICATIONS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
532087	AIRCARD SERVICE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
533085	TRAVEL/TRAINING	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
544086	AMORTIZATION-CONTRACT WATER RIGHTS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
544087	EXPENSE REIMBURSEMENT	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
544105	BANK SERVICE CHARGES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
544127	JUDGMENTS & FINES	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
547013	SURFACE WATER - OPERATIONS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
547040	ADMINISTRATIVE SERVICE CHARGE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
547050	PAYMENT IN LIEU OF TAXES	City	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
547070	INSURANCE EXPENSE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
547075	CITY HALL MAINTENANCE	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%
564005	CAPITAL OUTLAY - IMPROVEMENTS	CBO	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%	2.20%

Default Inflation Factor (if expense not listed above) 2.50% 2.00% 2.00% 2.00% 2.00% 2.00% 2.00% 2.00% 2.00% 2.00%

Source Codes  
 CBO - Congressional Budget Office  
 MSR - Mid Session Review  
 Blue Chip - Industry Standard  
 City - Provided by Staff  
 EIA - Energy Information Agency

Customer & Usage Forecast

Schedule 3

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>Water Residential</b>											
<b>Total ERUs</b>	20,274	20,679	21,093	21,514	21,945	22,384	22,831	23,288	23,754	24,229	24,713
Change	N/A	405	414	422	430	439	448	457	466	475	485
% Change	N/A	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<b>Annual Consumption (CF)</b>	124,492,496	125,712,523	126,944,505	128,188,562	129,444,809	130,713,369	131,994,360	133,287,904	134,594,126	135,913,148	137,245,097
Monthly Consumption per ERU	512	507	502	497	492	487	482	477	472	467	463
Change Per ERU	N/A	(5.1)	(5.1)	(5.0)	(5.0)	(4.9)	(4.9)	(4.8)	(4.8)	(4.7)	(4.7)
% Change Per ERU	N/A	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%
<b>Sprinkler</b>											
<b>Total ERUs</b>	3,719	3,793	3,869	3,946	4,025	4,106	4,188	4,271	4,357	4,444	4,533
Change	N/A	74	76	77	79	81	82	84	85	87	89
% Change	N/A	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<b>Annual Consumption (CF)</b>	198,325	200,268	202,231	204,213	206,214	208,235	210,276	212,336	214,417	216,519	218,640
Monthly Consumption per ERU	4	4	4	4	4	4	4	4	4	4	4
Change Per ERU	N/A	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
% Change Per ERU	N/A	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%
<b>Water Non-Residential</b>											
<b>Total ERUs</b>	9,860	10,057	10,258	10,463	10,672	10,886	11,104	11,326	11,552	11,783	12,019
Change	N/A	197	201	205	209	213	218	222	227	231	236
% Change	N/A	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<b>Annual Consumption (CF)</b>	235,014,685	237,317,829	239,643,544	241,992,051	244,363,573	246,758,336	249,176,567	251,618,498	254,084,359	256,574,386	259,088,815
Monthly Consumption per ERU	1,986	1,966	1,947	1,927	1,908	1,889	1,870	1,851	1,833	1,815	1,796
Change Per ERU	N/A	(19.9)	(19.7)	(19.5)	(19.3)	(19.1)	(18.9)	(18.7)	(18.5)	(18.3)	(18.1)
% Change Per ERU	N/A	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%
<b>Sewer Residential</b>											
<b>Total ERUs</b>	19,238	19,623	20,015	20,416	20,824	21,240	21,665	22,099	22,541	22,991	23,451
Change	N/A	385	392	400	408	416	425	433	442	451	460
% Change	N/A	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<b>Annual Use (CF)</b>	118,600,227	120,165,750	121,751,938	123,359,064	124,987,403	126,637,237	128,308,849	130,002,526	131,718,559	133,457,244	135,218,879
Monthly Consumption per ERU	514	510	507	504	500	497	494	490	487	484	480
Change Per ERU	N/A	(3.4)	(3.4)	(3.4)	(3.4)	(3.3)	(3.3)	(3.3)	(3.3)	(3.2)	(3.2)
% Change Per ERU	N/A	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%
<b>Sewer Non-Residential</b>											
<b>Total ERUs</b>	8,151	8,314	8,480	8,650	8,823	8,999	9,179	9,363	9,550	9,741	9,936
Change	N/A	163	166	170	173	176	180	184	187	191	195
% Change	N/A	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
<b>Annual Use (CF)</b>	180,673,216	183,058,103	185,474,469	187,922,732	190,403,313	192,916,636	195,463,136	198,043,249	200,657,420	203,306,098	205,989,739
Monthly Use per ERU (CF)	1,847	1,835	1,823	1,811	1,798	1,786	1,775	1,763	1,751	1,739	1,728
Change Per ERU	N/A	(12.3)	(12.2)	(12.2)	(12.1)	(12.0)	(11.9)	(11.8)	(11.8)	(11.7)	(11.6)
% Change Per ERU	N/A	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%	-0.7%

FY 2018 Beginning Balances

Schedule 4

CURRENT UNRESTRICTED ASSETS	Revenue Fund	Water Capital Improvement	Water Bond Proceeds 2006	Water Bond Proceeds 2008	Water Co Bonds 2017	Sewer Capital Improvement	SEWER CO BONDS 2017	Sewer Bond Proceeds 2006	Sewer Bond Proceeds 2008	Restricted Reserves
Cash and Cash Equivalents	\$ 5,048,500	\$ 3,864,066	\$ 44,754	\$ 164,822	\$ 18,574,064	\$ 3,357,790	\$ 16,174,293	\$ -	\$ 3,958,421	\$ -
Restricted Cash - Utility Deposit	-	-	-	-	-	-	-	-	-	1,950,692
Restricted Cash - Curr Bond Debtsvc	-	-	-	-	-	-	-	-	-	881,700
Restricted Cash - Future Bond Res	-	-	-	-	-	-	-	-	-	3,335,395
Clearing Cash	59,743	-	-	-	-	-	-	-	-	-
Petty Cash	1,325	-	-	-	-	-	-	-	-	-
Accounts Receivable net of uncollectible	11,313,811	-	-	-	-	-	-	-	-	-
Inventories	129,150	-	-	-	-	-	-	-	-	-
Prepaid Maintenance	14,628	-	-	-	-	-	-	-	-	-
Due from Others	810,237	-	-	-	-	-	-	-	-	-
Prepaid Charges For Services	544,498	-	-	-	-	-	-	-	-	-
<b>TOTAL ASSETS</b>	<b>\$ 17,921,892</b>	<b>\$ 3,864,066</b>	<b>\$ 44,754</b>	<b>\$ 164,822</b>	<b>\$ 18,574,064</b>	<b>\$ 3,357,790</b>	<b>\$ 16,174,293</b>	<b>\$ -</b>	<b>\$ 3,958,421</b>	<b>\$ 6,167,786</b>
Less: Accounts Payable	(1,329,357)	-	-	-	-	-	-	-	(42,829)	-
Less: Accrued Compensated Absences	(40,800)	-	-	-	-	-	-	-	-	-
Less: Due to other Governments	-	-	-	-	-	-	-	-	-	-
Less: Due to other Funds	(27,443)	-	-	-	-	-	-	-	-	-
Less: STATE - UNCLAIMED FUNDS	(152,036)	-	-	-	-	-	-	-	-	-
Less: UNCLAIMED FUNDS	-	-	-	-	-	-	-	-	-	-
Less: Compensated absences	(22,440)	-	-	-	-	-	-	-	-	-
Less: Contract Payables	(44,883)	-	-	-	-	-	-	-	-	-
Less: HEALTH INS-EMPLOYER PORTION	(15,314)	-	-	-	-	-	-	-	-	-
Less: LIFE INSURANCE OVER 50k	(706)	-	-	-	-	-	-	-	-	-
Less: DEFERRED OUTFLOWS A	(374,900)	-	-	-	-	-	-	-	-	-
Less: Retainage Payable	(342,023)	-	-	-	-	-	-	-	-	(647,164)
Less: Deferred Revenue-Miscellaneous	(5,000)	-	-	-	-	-	-	-	-	-
Less: Notes Payable	(5,000)	-	-	-	-	-	-	-	-	(2,091,715)
Less: Bonds and certificates of obligation payab	-	-	-	-	-	-	-	-	-	(633,138)
<b>CALCULATED FUND BALANCE (ASSETS - LIABILITIES)</b>	<b>\$ 15,561,991</b>	<b>\$ 3,864,066</b>	<b>\$ 44,754</b>	<b>\$ 164,822</b>	<b>\$ 18,574,064</b>	<b>\$ 3,357,790</b>	<b>\$ 16,174,293</b>	<b>\$ -</b>	<b>\$ 3,915,593</b>	<b>\$ 2,795,769</b>
Plus/(Less): Utility Deposit	-	-	-	-	-	-	-	-	-	(1,950,692)
Plus/(Less): Inventories	(129,150)	-	-	-	-	-	-	-	-	-
Plus/(Less): Prepaid Maintenance	(14,628)	-	-	-	-	-	-	-	-	-
Plus/(Less): Prior Encumbered	-	(2,659,827)	-	-	-	(3,095,848)	-	-	-	-
Plus/(Less): Debt Service Reserve Adjustment	-	-	-	-	-	-	-	-	-	-
<b>NET UNRESTRICTED FUND BALANCE</b>	<b>\$ 15,418,213</b>	<b>\$ 1,204,239</b>	<b>\$ 44,754</b>	<b>\$ 164,822</b>	<b>\$ 18,574,064</b>	<b>\$ 261,942</b>	<b>\$ 16,174,293</b>	<b>\$ -</b>	<b>\$ 3,915,593</b>	<b>\$ 845,078</b>
<b>Fund Summary</b>										
Sewer Bond Proceeds 2006	\$ -	-	-	-	-	-	-	-	-	-
Sewer Bond Proceeds 2008	\$ 3,915,593	-	-	-	-	-	-	-	-	-
Water Bond Proceeds 2006	\$ 44,754	-	-	-	-	-	-	-	-	-
Water Bond Proceeds 2008	\$ 164,822	-	-	-	-	-	-	-	-	-
Sewer Capital Improvement	\$ 261,942	-	-	-	-	-	-	-	-	-
Water Capital Improvement	\$ 1,204,239	-	-	-	-	-	-	-	-	-
SEWER CO BONDS 2017	\$ 16,174,293	-	-	-	-	-	-	-	-	-
Water Co Bonds 2017	\$ 18,574,064	-	-	-	-	-	-	-	-	-
Revenue Fund	\$ 15,418,213	-	-	-	-	-	-	-	-	-
Restricted Reserves	\$ 845,078	-	-	-	-	-	-	-	-	-
<b>Total Consolidated Fund Balance</b>	<b>\$ 56,602,998</b>	-	-	-	-	-	-	-	-	-

**Capital Improvement Program**

**Schedule 5**

Projects	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>WATER</b>											
WATERWORKS IMPROVEMENT	\$ 1,793,067	758,160	1,460,000	1,184,305	610,000	610,000	924,493	957,760	857,312	791,913	828,295
2006 WATER REVENUE BONDS	\$ -	-	-	-	-	-	-	-	-	-	-
2008 WATER REVENUE BONDS	\$ -	-	-	-	-	-	-	-	-	-	-
2017 CO's WATER	\$ -	12,882,169	-	-	-	-	-	-	-	-	-
WATER REVENUE SUPPORTED BONDS	\$ -	19,340,000	15,600,000	30,560,000	15,400,000	-	-	-	-	-	-
<b>SEWER</b>											
SEWER IMPROVEMENT	\$ 1,616,921	1,052,642	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
SEWER IMPROVEMENT	\$ -	-	-	-	-	-	-	-	-	-	-
2003 SEWER REVENUE BONDS	\$ -	-	-	-	-	-	-	-	-	-	-
2006 SEWER REVENUE BONDS	\$ -	-	-	-	-	-	-	-	-	-	-
2008 SEWER REVENUE BONDS	\$ -	-	-	-	-	-	-	-	-	-	-
2017 CO's SEWER	\$ -	13,281,343	2,464,121	-	-	-	-	-	-	-	-
FEMA	\$ -	183,675	-	-	-	-	-	-	-	-	-
WASTEWATER REVENUE SUPPORTED BONDS	\$ -	14,630,000	5,380,000	2,680,000	5,720,000	16,950,000	-	-	-	-	-
<b>Total CIP Budget (in current dollars)</b>	<b>\$ 3,409,988</b>	<b>\$ 62,127,989</b>	<b>\$ 27,404,121</b>	<b>\$ 36,924,305</b>	<b>\$ 24,230,000</b>	<b>\$ 20,060,000</b>	<b>\$ 3,424,493</b>	<b>\$ 3,457,760</b>	<b>\$ 3,357,312</b>	<b>\$ 3,291,913</b>	<b>\$ 3,328,295</b>
Cumulative Projected Cost Escalation	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Resulting CIP Funding Level</b>	<b>\$ 3,409,988</b>	<b>\$ 62,127,989</b>	<b>\$ 27,404,121</b>	<b>\$ 36,924,305</b>	<b>\$ 24,230,000</b>	<b>\$ 20,060,000</b>	<b>\$ 3,424,493</b>	<b>\$ 3,457,760</b>	<b>\$ 3,357,312</b>	<b>\$ 3,291,913</b>	<b>\$ 3,328,295</b>
Annual CIP Execution Percentage	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
<b>Final CIP Funding Level</b>	<b>\$ 3,409,988</b>	<b>\$ 62,127,989</b>	<b>\$ 27,404,121</b>	<b>\$ 36,924,305</b>	<b>\$ 24,230,000</b>	<b>\$ 20,060,000</b>	<b>\$ 3,424,493</b>	<b>\$ 3,457,760</b>	<b>\$ 3,357,312</b>	<b>\$ 3,291,913</b>	<b>\$ 3,328,295</b>







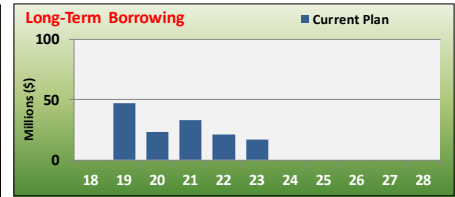
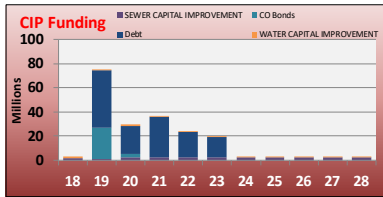
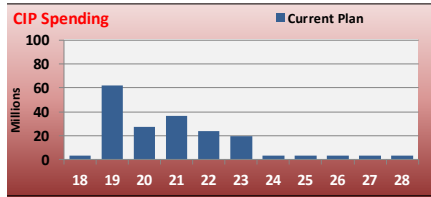
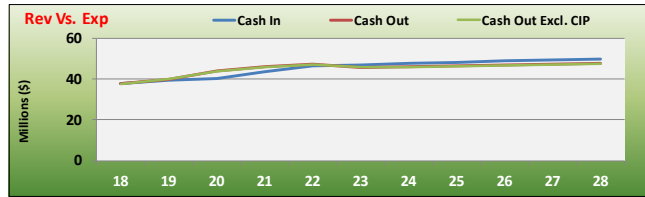
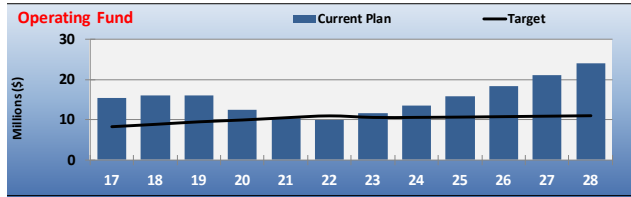
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>Execution Rates</b>												
1	Personal Services	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
2	Variable O&M Expenses	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
3	Fixed O&M Expenses	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%	105%
206	611803 SUPPLY											
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Projection of Cash Inflows											Schedule 7
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>1 Water Growth</b>											
2 Growth in ERUs	N/A	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
3 Growth in Billed Usage	N/A	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%
<b>4 Sewer Growth</b>											
5 Growth in ERUs	N/A	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
6 Growth in Billed Usage	N/A	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%
<b>7 Assumed Rate Revenue Increases</b>											
8 Water Rate Increases	N/A	7.00%	0.00%	11.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
9 Sewer Rate Increases	N/A	0.00%	0.00%	4.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
<b>10 Water Rate Revenue</b>											
11 Total Rate Revenue	\$ 3,239,231	3,533,937	3,603,230	4,078,009	4,490,607	4,578,659	4,668,436	4,759,974	4,853,307	4,948,470	5,045,499
12 Volumetric Revenue	\$18,395,481	19,735,068	19,926,595	22,087,513	23,893,331	24,125,214	24,359,346	24,595,751	24,834,450	25,075,466	25,318,820
<b>13 Sewer Rate Revenue</b>											
14 Base Rate Revenue	\$ 4,247,956	4,331,249	4,416,176	4,682,878	4,917,940	5,014,370	5,112,691	5,212,940	5,315,155	5,419,373	5,525,635
15 Volumetric Revenue	\$10,850,432	10,991,791	11,134,993	11,684,337	12,155,083	12,313,440	12,473,860	12,636,369	12,800,996	12,967,768	13,136,713
<b>16 Total Rate Revenue</b>	<b>\$36,733,099</b>	<b>\$38,592,046</b>	<b>\$39,080,993</b>	<b>\$42,532,737</b>	<b>\$45,456,962</b>	<b>\$46,031,682</b>	<b>\$46,614,333</b>	<b>\$47,205,035</b>	<b>\$47,803,908</b>	<b>\$48,411,077</b>	<b>\$49,026,667</b>
<b>17 Other Operating Revenues</b>											
18 Tap Fees And Service Charges	\$ 349,631	349,631	349,631	349,631	349,631	349,631	349,631	349,631	349,631	349,631	349,631
19 Waste Hauler Fees	\$ -	-	-	-	-	-	-	-	-	-	-
20 Backflow Prevention Tester Fees	\$ 1,242	1,242	1,242	1,242	1,242	1,242	1,242	1,242	1,242	1,242	1,242
21 Inspection Of Testers Equipmt Fees	\$ 19,489	19,489	19,489	19,489	19,489	19,489	19,489	19,489	19,489	19,489	19,489
22 Fire Hydrant Meter Connections	\$ -	-	-	-	-	-	-	-	-	-	-
23 Land Rentals	\$ 35,398	35,398	35,398	35,398	35,398	35,398	35,398	35,398	35,398	35,398	35,398
24 Other Revenues	\$ 55,722	55,722	55,722	55,722	55,722	55,722	55,722	55,722	55,722	55,722	55,722
25 Sale Of Gen.Fixed Assets	\$ -	-	-	-	-	-	-	-	-	-	-
26 Tap Fees And Service Charges	\$ 95,687	95,687	95,687	95,687	95,687	95,687	95,687	95,687	95,687	95,687	95,687
27 Waste Hauler Fees	\$ 110,730	110,730	110,730	110,730	110,730	110,730	110,730	110,730	110,730	110,730	110,730
28 Penalties On Account	\$ 135,992	135,992	135,992	135,992	135,992	135,992	135,992	135,992	135,992	135,992	135,992
<b>29 Total Other Operating Revenue</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>	<b>\$ 803,891</b>
<b>30 Non-Operating Income</b>											
31 Penalties On Account	\$ 143,008	143,008	143,008	143,008	143,008	143,008	143,008	143,008	143,008	143,008	143,008
32 Sale Of Equipment	\$ -	-	-	-	-	-	-	-	-	-	-
33 Other Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
34 Other Funding Sources	\$ 22,079	22,079	22,079	22,079	22,079	22,079	22,079	22,079	22,079	22,079	22,079
35 Sale Of Gen.Fixed Assets	\$ -	-	-	-	-	-	-	-	-	-	-
<b>36 Total Non-Operating Revenues</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>	<b>\$ 165,087</b>
<b>37 Total Revenue</b>	<b>\$37,702,077</b>	<b>\$39,561,024</b>	<b>\$40,049,971</b>	<b>\$43,501,715</b>	<b>\$46,425,940</b>	<b>\$47,000,660</b>	<b>\$47,583,311</b>	<b>\$48,174,013</b>	<b>\$48,772,886</b>	<b>\$49,380,055</b>	<b>\$49,995,645</b>

FINANCIAL ANALYSIS AND MANAGEMENT SYSTEM (FAMS WATER) SUMMARY													
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cumulative Change	
<b>Override</b>		7.00%	0.00%	11.00%	8.00%							FY 2023	FY 2028
Water Rate Increases	0.00%	7.00%	0.00%	11.00%	8.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	28.30%	28.30%
<b>Override</b>				4.00%	3.00%							PS FY19	100.0%
Sewer Rate Increases	0.00%	0.00%	0.00%	4.00%	3.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	OMV FY19	100.0%
Rate Covenant	4.09	2.79	2.01	1.82	1.76	1.87	1.98	2.00	2.02	2.04	2.06	Elasticity	10.0%



Forecast of Net Revenues and Debt Service Coverage

Schedule 9

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>1 Total Rate Revenue</b>											
2 Fixed And Consumption Rate Revenue	\$ 36,733,099	36,733,099	38,592,046	39,080,993	42,532,737	45,456,962	46,031,682	46,614,333	47,205,035	47,803,908	48,411,077
3 Additional Revenue From Growth	-	466,693	488,947	495,696	538,363	574,720	582,651	590,701	598,873	607,169	615,590
4 Weather Normalization	-	-	-	-	-	-	-	-	-	-	-
5 Subtotal: Base Revenue With Growth	\$ 36,733,099	37,199,793	39,080,993	39,576,689	43,071,100	46,031,682	46,614,333	47,205,035	47,803,908	48,411,077	49,026,667
6 Weighted Average Rate Increase	0.0%	4.1%	0.0%	8.2%	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
7 Additional Rate Revenue From Rate Increase	\$ -	1,531,373	0	3,248,638	2,615,125	0	-	-	-	-	-
8 Price Elasticity Adjustment	\$ -	(139,119)	0	(292,590)	(229,263)	0	-	-	-	-	-
9 Total Rate Revenue	\$ 36,733,099	38,592,046	39,080,993	42,532,737	45,456,962	46,031,682	46,614,333	47,205,035	47,803,908	48,411,077	49,026,667
10 Plus: Other Operating Revenue	\$ 803,891	803,891	803,891	803,891	803,891	803,891	803,891	803,891	803,891	803,891	803,891
<b>11 Equals: Total Operating Revenue</b>	<b>\$ 37,536,990</b>	<b>\$ 39,395,937</b>	<b>\$ 39,884,884</b>	<b>\$ 43,336,628</b>	<b>\$ 46,260,853</b>	<b>\$ 46,835,573</b>	<b>\$ 47,418,224</b>	<b>\$ 48,008,926</b>	<b>\$ 48,607,799</b>	<b>\$ 49,214,968</b>	<b>\$ 49,830,558</b>
<b>12 Less: Operating Expenses</b>											
13 Personal Services	\$ (7,247,149)	(7,404,013)	(7,564,815)	(7,729,684)	(7,898,754)	(8,072,165)	(8,250,065)	(8,432,605)	(8,619,947)	(8,812,258)	(9,009,714)
14 Variable O&M	\$ (12,807,295)	(13,603,318)	(13,654,795)	(14,205,391)	(14,289,880)	(11,082,440)	(11,174,639)	(11,270,206)	(11,369,297)	(11,472,075)	(11,578,714)
15 O&M	\$ (7,380,612)	(7,511,181)	(7,644,635)	(7,781,036)	(7,920,450)	(8,062,946)	(8,208,591)	(8,357,457)	(8,509,614)	(8,665,138)	(8,824,103)
<b>16 Equals: Net Operating Income</b>	<b>\$ 10,101,934</b>	<b>\$ 10,877,425</b>	<b>\$ 11,020,639</b>	<b>\$ 13,620,517</b>	<b>\$ 16,151,768</b>	<b>\$ 19,618,022</b>	<b>\$ 19,784,930</b>	<b>\$ 19,948,658</b>	<b>\$ 20,108,940</b>	<b>\$ 20,265,496</b>	<b>\$ 20,418,026</b>
<b>17 Plus: Non-Operating Income/(Expense)</b>											
18 Non-Operating Revenue	\$ 165,087	165,087	165,087	165,087	165,087	165,087	165,087	165,087	165,087	165,087	165,087
19 Interest Income	\$ 535,838	450,541	353,723	338,263	346,416	375,544	411,987	443,479	479,333	519,152	562,005
20 Debt Service Reserve Adjustment	\$ -	-	-	-	-	-	-	-	-	-	-
<b>21 Equals: Net Income</b>	<b>\$ 10,802,859</b>	<b>\$ 11,493,053</b>	<b>\$ 11,539,449</b>	<b>\$ 14,123,867</b>	<b>\$ 16,663,271</b>	<b>\$ 20,158,653</b>	<b>\$ 20,362,003</b>	<b>\$ 20,557,223</b>	<b>\$ 20,753,360</b>	<b>\$ 20,949,735</b>	<b>\$ 21,145,118</b>
<b>22 Senior Debt Service Coverage Test</b>											
23 Existing Senior Lien Debt	\$ 2,643,600	2,650,300	2,649,500	2,659,100	2,659,950	2,667,300	1,885,750	1,883,750	1,888,500	1,889,500	1,886,750
24 Cumulative New Senior Lien Debt - As Calculated	\$ -	1,473,542	3,098,941	5,117,401	6,804,952	8,093,345	8,372,247	8,372,247	8,372,247	8,372,247	8,372,247
<b>25 Total Conventional Debt Service</b>	<b>Target</b>	<b>\$ 2,643,600</b>	<b>\$ 4,123,842</b>	<b>\$ 5,748,441</b>	<b>\$ 7,776,501</b>	<b>\$ 9,464,902</b>	<b>\$ 10,760,645</b>	<b>\$ 10,257,997</b>	<b>\$ 10,255,997</b>	<b>\$ 10,260,747</b>	<b>\$ 10,261,747</b>
26 Calculated Debt Service Coverage (Test 1)	<b>1.50</b>	<b>4.09</b>	<b>2.79</b>	<b>2.01</b>	<b>1.82</b>	<b>1.76</b>	<b>1.87</b>	<b>1.98</b>	<b>2.00</b>	<b>2.02</b>	<b>2.04</b>
<b>27 Cash Flow Test</b>											
28 Net Income Available For Debt Service	\$ 10,802,859	11,493,053	11,539,449	14,123,867	16,663,271	20,158,653	20,362,003	20,557,223	20,753,360	20,949,735	21,145,118
29 Less: Non-Operating Expenditures											
30 Net Interfund Transfers (In - Out)	\$ (2,152,068)	(1,929,240)	(4,020,693)	(3,744,960)	(3,170,616)	(3,170,577)	(3,485,030)	(3,518,256)	(3,417,766)	(3,352,326)	(3,388,666)
31 Senior & Subordinate Debt Service	\$ (6,687,394)	(8,140,831)	(9,636,285)	(11,063,608)	(12,541,264)	(13,840,367)	(13,474,739)	(13,326,069)	(13,331,464)	(13,335,064)	(13,326,669)
32 Payment In Lieu Of Taxes	\$ (400,000)	(408,800)	(417,794)	(426,985)	(436,379)	(445,979)	(455,791)	(465,818)	(476,066)	(486,539)	(497,243)
33 Capital Outlay/ Vehicles	\$ (997,234)	(997,243)	(997,252)	(997,262)	(997,272)	(997,282)	(997,292)	(997,302)	(997,313)	(997,324)	(997,335)
<b>34 Net Cash Flow</b>	<b>\$ 566,163</b>	<b>\$ 16,939</b>	<b>\$ (3,532,575)</b>	<b>\$ (2,108,948)</b>	<b>\$ (482,260)</b>	<b>\$ 1,704,449</b>	<b>\$ 1,949,152</b>	<b>\$ 2,249,779</b>	<b>\$ 2,530,751</b>	<b>\$ 2,778,482</b>	<b>\$ 2,935,205</b>
<b>35 Unrestricted Reserve Fund Test</b>											
36 Balance At Beginning Of Fiscal Year	\$ 15,418,213	15,984,377	16,001,316	12,468,741	10,359,793	9,877,533	11,581,982	13,531,134	15,780,913	18,311,664	21,090,146
37 Cash Flow Surplus/(Deficit)	\$ 566,163	16,939	-	(191,199)	(482,260)	1,704,449	1,949,152	2,249,779	2,530,751	2,778,482	2,935,205
38 Reserve Fund Balance Used For Cash Flow Deficit	\$ -	-	(3,532,575)	(1,917,749)	-	-	-	-	-	-	-
39 Projects Designated To Be Paid With Cash	\$ -	-	-	-	-	-	-	-	-	-	-
40 Projects Paid With Reserve Funds (Non Specified Fund)	\$ -	-	-	-	-	-	-	-	-	-	-
41 Balance At End Of Fiscal Year	\$ 15,984,377	16,001,316	12,468,741	10,359,793	9,877,533	11,581,982	13,531,134	15,780,913	18,311,664	21,090,146	24,025,351
42 Minimum Working Capital Reserve Target	\$ 8,879,921	9,516,347	9,978,894	10,550,991	11,021,000	10,625,295	10,640,279	10,712,364	10,825,925	10,942,100	11,058,445
<b>43 Excess/(Deficiency) Of Working Capital To Target</b>	<b>\$ 7,104,456</b>	<b>\$ 6,484,969</b>	<b>\$ 2,489,847</b>	<b>\$ (191,199)</b>	<b>\$ (1,143,466)</b>	<b>\$ 956,687</b>	<b>\$ 2,890,855</b>	<b>\$ 5,068,549</b>	<b>\$ 7,485,738</b>	<b>\$ 10,148,046</b>	<b>\$ 12,966,906</b>

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>1 Water Bond Proceeds 2006</b>											
2 Balance At Beginning Of Fiscal Year	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
3 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
4 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
5 Subtotal	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
6 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
7 Total Amount Available For Projects	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
8 Amount Paid For Projects	\$ -	-	-	-	-	-	-	-	-	-	-
9 Subtotal	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
10 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
11 Plus: Interest Earnings	\$ 671	681	692	702	713	723	734	745	756	768	779
12 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
13 Balance At End Of Fiscal Year	\$ 45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939	52,718
<b>14 Water Bond Proceeds 2008</b>											
15 Balance At Beginning Of Fiscal Year	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
16 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
17 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
18 Subtotal	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
19 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
20 Total Amount Available For Projects	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
21 Amount Paid For Projects	\$ -	-	-	-	-	-	-	-	-	-	-
22 Subtotal	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
23 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
24 Plus: Interest Earnings	\$ 2,472	2,509	2,547	2,585	2,624	2,663	2,703	2,744	2,785	2,827	2,869
25 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
26 Balance At End Of Fiscal Year	\$ 167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283	194,152
<b>27 SEWER BOND PROCEEDS 2008</b>											
28 Balance At Beginning Of Fiscal Year	\$ 3,915,593	3,974,326	4,033,941	4,094,450	4,155,867	4,218,205	4,281,478	4,345,700	4,410,886	4,477,049	4,544,205
29 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
30 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
31 Subtotal	\$ 3,915,593	3,974,326	4,033,941	4,094,450	4,155,867	4,218,205	4,281,478	4,345,700	4,410,886	4,477,049	4,544,205
32 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
33 Total Amount Available For Projects	\$ 3,915,593	3,974,326	4,033,941	4,094,450	4,155,867	4,218,205	4,281,478	4,345,700	4,410,886	4,477,049	4,544,205
34 Amount Paid For Projects	\$ -	-	-	-	-	-	-	-	-	-	-
35 Subtotal	\$ 3,915,593	3,974,326	4,033,941	4,094,450	4,155,867	4,218,205	4,281,478	4,345,700	4,410,886	4,477,049	4,544,205
36 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
37 Plus: Interest Earnings	\$ 58,734	59,615	60,509	61,417	62,338	63,273	64,222	65,186	66,163	67,156	68,163
38 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
39 Balance At End Of Fiscal Year	\$ 3,974,326	4,033,941	4,094,450	4,155,867	4,218,205	4,281,478	4,345,700	4,410,886	4,477,049	4,544,205	4,612,368
<b>40 WATER BOND PROCEEDS 2006</b>											
41 Balance At Beginning Of Fiscal Year	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
42 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
43 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
44 Subtotal	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
45 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
46 Total Amount Available For Projects	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
47 Amount Paid For Projects	\$ -	-	-	-	-	-	-	-	-	-	-
48 Subtotal	\$ 44,754	45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939
49 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
50 Plus: Interest Earnings	\$ 671	681	692	702	713	723	734	745	756	768	779
51 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
52 Balance At End Of Fiscal Year	\$ 45,426	46,107	46,799	47,501	48,213	48,936	49,670	50,415	51,172	51,939	52,718
<b>53 WATER BOND PROCEEDS 2008</b>											
54 Balance At Beginning Of Fiscal Year	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
55 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
56 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
57 Subtotal	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
58 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
59 Total Amount Available For Projects	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
60 Amount Paid For Projects	\$ -	-	-	-	-	-	-	-	-	-	-
61 Subtotal	\$ 164,822	167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283
62 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
63 Plus: Interest Earnings	\$ 2,472	2,509	2,547	2,585	2,624	2,663	2,703	2,744	2,785	2,827	2,869
64 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
65 Balance At End Of Fiscal Year	\$ 167,295	169,804	172,351	174,936	177,560	180,224	182,927	185,671	188,456	191,283	194,152

Funding Summary by Fund

Schedule 11

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
<b>66 SEWER CAPITAL IMPROVEMENT</b>											
67 Balance At Beginning Of Fiscal Year	\$ 261,942	1,965	57,606	55,904	54,137	52,306	50,407	48,439	46,402	44,292	42,108
68 Additional Annual Revenues	\$ 1,354,979	1,107,840	2,497,453	2,497,415	2,497,376	2,497,337	2,497,297	2,497,256	2,497,215	2,497,173	2,497,131
69 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
70 Subtotal	\$ 1,616,921	1,109,805	2,555,059	2,553,318	2,551,513	2,549,642	2,547,704	2,545,696	2,543,616	2,541,465	2,539,239
71 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
72 Total Amount Available For Projects	\$ 1,616,921	1,109,805	2,555,059	2,553,318	2,551,513	2,549,642	2,547,704	2,545,696	2,543,616	2,541,465	2,539,239
73 Amount Paid For Projects	\$ (1,616,921)	(1,052,642)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)
74 Subtotal	\$ -	57,162	55,059	53,318	51,513	49,642	47,704	45,696	43,616	41,465	39,239
75 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
76 Plus: Interest Earnings	\$ 1,965	443	845	819	792	765	736	706	675	643	610
77 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
78 Balance At End Of Fiscal Year	\$ 1,965	57,606	55,904	54,137	52,306	50,407	48,439	46,402	44,292	42,108	39,849
<b>79 WATER CAPITAL IMPROVEMENT</b>											
80 Balance At Beginning Of Fiscal Year	\$ 1,204,239	-	-	-	-	-	-	-	-	-	-
81 Additional Annual Revenues	\$ 588,828	758,160	1,460,000	1,184,305	610,000	610,000	924,493	957,760	857,312	791,913	828,295
82 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
83 Subtotal	\$ 1,793,067	758,160	1,460,000	1,184,305	610,000	610,000	924,493	957,760	857,312	791,913	828,295
84 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
85 Total Amount Available For Projects	\$ 1,793,067	758,160	1,460,000	1,184,305	610,000	610,000	924,493	957,760	857,312	791,913	828,295
86 Amount Paid For Projects	\$ (1,793,067)	(758,160)	(1,460,000)	(1,184,305)	(610,000)	(610,000)	(924,493)	(957,760)	(857,312)	(791,913)	(828,295)
87 Subtotal	\$ -	-	-	-	-	-	-	-	-	-	-
88 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
89 Plus: Interest Earnings	\$ 9,032	-	-	-	-	-	-	-	-	-	-
90 Less: Interest Allocated To Cash Flow	\$ (9,032)	-	-	-	-	-	-	-	-	-	-
91 Balance At End Of Fiscal Year	\$ -	-	-	-	-	-	-	-	-	-	-
<b>92 SEWER CO BONDS 2017</b>											
93 Balance At Beginning Of Fiscal Year	\$ 16,174,293	16,416,908	3,282,208	848,839	861,572	874,495	887,613	900,927	914,441	928,158	942,080
94 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
95 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
96 Subtotal	\$ 16,174,293	16,416,908	3,282,208	848,839	861,572	874,495	887,613	900,927	914,441	928,158	942,080
97 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
98 Total Amount Available For Projects	\$ 16,174,293	16,416,908	3,282,208	848,839	861,572	874,495	887,613	900,927	914,441	928,158	942,080
99 Amount Paid For Projects	\$ -	(13,281,343)	(2,464,121)	-	-	-	-	-	-	-	-
100 Subtotal	\$ 16,174,293	3,135,565	818,087	848,839	861,572	874,495	887,613	900,927	914,441	928,158	942,080
101 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
102 Plus: Interest Earnings	\$ 242,614	146,644	30,752	12,733	12,924	13,117	13,314	13,514	13,717	13,922	14,131
103 Less: Interest Allocated To Cash Flow	\$ -	-	-	-	-	-	-	-	-	-	-
104 Balance At End Of Fiscal Year	\$ 16,416,908	3,282,208	848,839	861,572	874,495	887,613	900,927	914,441	928,158	942,080	956,211
<b>105 WATER CO BONDS 2017</b>											
106 Balance At Beginning Of Fiscal Year	\$ 18,574,064	18,574,064	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895
107 Additional Annual Revenues	\$ -	-	-	-	-	-	-	-	-	-	-
108 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
109 Subtotal	\$ 18,574,064	18,574,064	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895
110 Less: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
111 Total Amount Available For Projects	\$ 18,574,064	18,574,064	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895
112 Amount Paid For Projects	\$ -	(12,882,169)	-	-	-	-	-	-	-	-	-
113 Subtotal	\$ 18,574,064	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895
114 Add Back: Restricted Funds	\$ -	-	-	-	-	-	-	-	-	-	-
115 Plus: Interest Earnings	\$ 278,611	181,995	85,378	85,378	85,378	85,378	85,378	85,378	85,378	85,378	85,378
116 Less: Interest Allocated To Cash Flow	\$ (278,611)	(181,995)	(85,378)	(85,378)	(85,378)	(85,378)	(85,378)	(85,378)	(85,378)	(85,378)	(85,378)
117 Balance At End Of Fiscal Year	\$ 18,574,064	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895	5,691,895



**Funding Summary by Fund**
**Schedule 11**

	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>
<b>118 REVENUE FUND</b>											
119 Balance At Beginning Of Fiscal Year	\$ 15,418,213	15,984,377	16,001,316	12,468,741	10,359,793	9,877,533	11,581,982	13,531,134	15,780,913	18,311,664	21,090,146
120 Additional Annual Revenues	\$ 566,163	16,939	(3,532,575)	(2,108,948)	(482,260)	1,704,449	1,949,152	2,249,779	2,530,751	2,778,482	2,935,205
121 Less: Cash-Funded Capital Projects	\$ -	-	-	-	-	-	-	-	-	-	-
122 Less: Payment Of Debt Service	\$ -	-	-	-	-	-	-	-	-	-	-
123 Subtotal	\$ 15,984,377	16,001,316	12,468,741	10,359,793	9,877,533	11,581,982	13,531,134	15,780,913	18,311,664	21,090,146	24,025,351
124 Less: Restricted Funds	\$ (8,879,921)	(9,516,347)	(9,978,894)	(10,359,793)	(9,877,533)	(10,625,295)	(10,640,279)	(10,712,364)	(10,825,925)	(10,942,100)	(11,058,445)
125 Total Amount Available For Projects	\$ 7,104,456	6,484,969	2,489,847	-	-	956,687	2,890,855	5,068,549	7,485,738	10,148,046	12,966,906
126 Amount Paid For Projects	\$ -	-	-	-	-	-	-	-	-	-	-
127 Subtotal	\$ 7,104,456	6,484,969	2,489,847	-	-	956,687	2,890,855	5,068,549	7,485,738	10,148,046	12,966,906
128 Add Back: Restricted Funds	\$ 8,879,921	9,516,347	9,978,894	10,359,793	9,877,533	10,625,295	10,640,279	10,712,364	10,825,925	10,942,100	11,058,445
129 Plus: Interest Earnings	\$ 235,519	239,893	213,525	171,214	151,780	160,946	188,348	219,840	255,694	295,514	338,366
130 Less: Interest Allocated To Cash Flow	\$ (235,519)	(239,893)	(213,525)	(171,214)	(151,780)	(160,946)	(188,348)	(219,840)	(255,694)	(295,514)	(338,366)
131 Balance At End Of Fiscal Year	\$ 15,984,377	16,001,316	12,468,741	10,359,793	9,877,533	11,581,982	13,531,134	15,780,913	18,311,664	21,090,146	24,025,351
<b>132 RESTRICTED RESERVES</b>											
133 Balance At Beginning Of Fiscal Year	\$ 845,078	845,078	2,975,454	4,333,683	6,555,778	8,011,927	9,217,325	9,217,325	9,217,325	9,217,325	9,217,325
134 Additional Funds:	\$ -	2,130,377	1,358,229	2,222,095	1,456,149	1,205,398	-	-	-	-	-
135 Debt Service Reserve On New Debt	\$ -	-	-	-	-	-	-	-	-	-	-
136 Other Additional Funds	\$ -	-	-	-	-	-	-	-	-	-	-
137 Subtotal	\$ 845,078	2,975,454	4,333,683	6,555,778	8,011,927	9,217,325	9,217,325	9,217,325	9,217,325	9,217,325	9,217,325
138 Plus: Interest Earnings	\$ 12,676	28,654	54,819	81,671	109,258	129,219	138,260	138,260	138,260	138,260	138,260
139 Less: Interest Allocated To Cash Flow	\$ (12,676)	(28,654)	(54,819)	(81,671)	(109,258)	(129,219)	(138,260)	(138,260)	(138,260)	(138,260)	(138,260)
140 Balance At End Of Fiscal Year	\$ 845,078	2,975,454	4,333,683	6,555,778	8,011,927	9,217,325	9,217,325	9,217,325	9,217,325	9,217,325	9,217,325



## 6.0 APPENDIX B: Rate Schedules & Impacts

### Residential Water

#### Base Rates

Meter Size	Old Rate	New Rate
5/8" x 3/4"	\$ 9.54	\$ 10.78
1"	\$ 21.56	\$ 24.36
1 1/2"	\$ 41.58	\$ 46.99
2"	\$ 65.61	\$ 74.14
3"	\$ 129.69	\$ 146.55
4"	\$ 201.78	\$ 228.01
6"	\$ 402.03	\$ 454.29
8"	\$ 642.33	\$ 725.83
10"	\$ 922.68	\$ 1,042.63
12"	\$ 1,723.68	\$ 1,947.76

#### Volumetric Rates

Tier	Old Rate	New Rate
0-500 CF	\$ 1.62	\$ 1.78
500-1000 CF	\$ 4.05	\$ 4.45
1000-2000 CF	\$ 6.08	\$ 6.22
2000+ CF	\$ 9.12	\$ 9.26

### Sprinkler

#### Base Rates

Meter Size	Old Rate	New Rate
5/8" x 3/4"	\$ 9.54	\$ 10.78
1"	\$ 21.56	\$ 24.36
1 1/2"	\$ 41.58	\$ 46.99
2"	\$ 65.61	\$ 74.14
3"	\$ 129.69	\$ 146.55
4"	\$ 201.78	\$ 228.01
6"	\$ 402.03	\$ 454.29
8"	\$ 642.33	\$ 725.83
10"	\$ 922.68	\$ 1,042.63
12"	\$ 1,723.68	\$ 1,947.76

#### Volumetric Rates

Tier	Old Rate	New Rate
0-500 CF	\$ 4.05	\$ 4.29
500-1500 CF	\$ 6.08	\$ 6.44
1500+ CF	\$ 9.12	\$ 9.67

### Non-Residential

#### Base Rates

Meter Size	Old Rate	New Rate
5/8" x 3/4"	\$ 9.54	\$ 10.78
1"	\$ 21.56	\$ 24.36
1 1/2"	\$ 41.58	\$ 46.99
2"	\$ 65.61	\$ 74.14
3"	\$ 129.69	\$ 146.55
4"	\$ 201.78	\$ 228.01
6"	\$ 402.03	\$ 454.29
8"	\$ 642.33	\$ 725.83
10"	\$ 922.68	\$ 1,042.63
12"	\$ 1,723.68	\$ 1,947.76

#### Volumetric Rates

Tier	Old Rate	New Rate
All Metered Use	\$ 4.05	\$ 4.29



**Sewer**

Base Rates

Meter Size	Old Rate	New Rate
5/8" x 3/4"	\$ 13.10	\$ 13.10
1"	\$ 30.30	\$ 30.30
1 1/2"	\$ 58.98	\$ 58.98
2"	\$ 93.39	\$ 93.39
3"	\$ 185.15	\$ 185.15
4"	\$ 288.38	\$ 288.38
6"	\$ 575.13	\$ 575.13
8"	\$ 919.23	\$ 919.23
10"	\$ 1,320.68	\$ 1,320.68
12"	\$ 2,467.68	\$ 2,467.68

Volumetric Rates

Tier	Old Rate	New Rate
All Metered Use	\$ 3.42	\$ 3.42

Residential Water 5/8" Meter Water & Sewer Bill Calculations											
Monthly Use (CCF)	Monthly Use (CF)	Monthly Use (Gal)	Agg. Bills Issued %	Current Water	Proposed Water	Current Sewer	Proposed Sewer	Current FY 18	Proposed (JAN FY 19)	\$ Chg	% Chg
0	0	0	13.3%	\$9.54	\$10.78	\$13.10	\$13.10	\$22.64	\$23.88	\$1.24	5.5%
1	100	748	26.9%	\$11.16	\$12.56	\$16.52	\$16.52	\$27.68	\$29.08	\$1.40	5.1%
2	200	1,496	40.3%	\$12.78	\$14.34	\$19.94	\$19.94	\$32.72	\$34.28	\$1.56	4.8%
3	300	2,244	52.7%	\$14.40	\$16.12	\$23.36	\$23.36	\$37.76	\$39.48	\$1.72	4.6%
4	400	2,992	63.3%	\$16.02	\$17.90	\$26.78	\$26.78	\$42.80	\$44.68	\$1.88	4.4%
5	500	3,740	71.7%	\$17.64	\$19.68	\$30.20	\$30.20	\$47.84	\$49.88	\$2.04	4.3%
6	600	4,488	78.3%	\$21.69	\$24.13	\$33.62	\$33.62	\$55.31	\$57.75	\$2.44	4.4%
7	700	5,236	83.3%	\$25.74	\$28.58	\$37.04	\$37.04	\$62.78	\$65.62	\$2.84	4.5%
8	800	5,984	87.0%	\$29.79	\$33.03	\$40.46	\$40.46	\$70.25	\$73.49	\$3.24	4.6%
9	900	6,732	89.9%	\$33.84	\$37.48	\$43.88	\$43.88	\$77.72	\$81.36	\$3.64	4.7%
10	1,000	7,480	92.1%	\$37.89	\$41.93	\$47.30	\$47.30	\$85.19	\$89.23	\$4.04	4.7%
11	1,100	8,228	93.8%	\$43.97	\$48.15	\$50.72	\$50.72	\$94.69	\$98.87	\$4.18	4.4%
12	1,200	8,976	95.2%	\$50.05	\$54.37	\$54.14	\$54.14	\$104.19	\$108.51	\$4.32	4.1%
13	1,300	9,724	96.3%	\$56.13	\$60.59	\$57.56	\$57.56	\$113.69	\$118.15	\$4.46	3.9%
14	1,400	10,472	97.1%	\$62.21	\$66.81	\$60.98	\$60.98	\$123.19	\$127.79	\$4.60	3.7%
15	1,500	11,220	97.9%	\$68.29	\$73.03	\$64.40	\$64.40	\$132.69	\$137.43	\$4.74	3.6%
16	1,600	11,968	98.5%	\$74.37	\$79.25	\$67.82	\$67.82	\$142.19	\$147.07	\$4.88	3.4%
17	1,700	12,716	98.9%	\$80.45	\$85.47	\$71.24	\$71.24	\$151.69	\$156.71	\$5.02	3.3%
18	1,800	13,464	99.3%	\$86.53	\$91.69	\$74.66	\$74.66	\$161.19	\$166.35	\$5.16	3.2%
19	1,900	14,212	99.7%	\$92.61	\$97.91	\$78.08	\$78.08	\$170.69	\$175.99	\$5.30	3.1%
20	2,000	14,960	99.8%	\$98.69	\$104.13	\$81.50	\$81.50	\$180.19	\$185.63	\$5.44	3.0%

Non-Residential Water 5/8" Meter Water & Sewer Bill Calculations										
Monthly Use (CCF)	Monthly Use (CF)	Monthly Use (Gal)	Current Water	Proposed Water	Current Sewer	Proposed Sewer	Current FY 18	Proposed	\$ Chg	% Chg
								(JAN FY 19)		
0	0	0	\$9.54	\$10.78	\$13.10	\$13.10	\$22.64	\$23.88	\$1.24	5.5%
1	100	748	\$13.59	\$15.07	\$16.52	\$16.52	\$30.11	\$31.59	\$1.48	4.9%
2	200	1,496	\$17.64	\$19.36	\$19.94	\$19.94	\$37.58	\$39.30	\$1.72	4.6%
3	300	2,244	\$21.69	\$23.65	\$23.36	\$23.36	\$45.05	\$47.01	\$1.96	4.4%
4	400	2,992	\$25.74	\$27.94	\$26.78	\$26.78	\$52.52	\$54.72	\$2.20	4.2%
5	500	3,740	\$29.79	\$32.23	\$30.20	\$30.20	\$59.99	\$62.43	\$2.44	4.1%
6	600	4,488	\$33.84	\$36.52	\$33.62	\$33.62	\$67.46	\$70.14	\$2.68	4.0%
7	700	5,236	\$37.89	\$40.81	\$37.04	\$37.04	\$74.93	\$77.85	\$2.92	3.9%
8	800	5,984	\$41.94	\$45.10	\$40.46	\$40.46	\$82.40	\$85.56	\$3.16	3.8%
9	900	6,732	\$45.99	\$49.39	\$43.88	\$43.88	\$89.87	\$93.27	\$3.40	3.8%
10	1,000	7,480	\$50.04	\$53.68	\$47.30	\$47.30	\$97.34	\$100.98	\$3.64	3.7%
11	1,100	8,228	\$54.09	\$57.97	\$50.72	\$50.72	\$104.81	\$108.69	\$3.88	3.7%
12	1,200	8,976	\$58.14	\$62.26	\$54.14	\$54.14	\$112.28	\$116.40	\$4.12	3.7%
13	1,300	9,724	\$62.19	\$66.55	\$57.56	\$57.56	\$119.75	\$124.11	\$4.36	3.6%
14	1,400	10,472	\$66.24	\$70.84	\$60.98	\$60.98	\$127.22	\$131.82	\$4.60	3.6%
15	1,500	11,220	\$70.29	\$75.13	\$64.40	\$64.40	\$134.69	\$139.53	\$4.84	3.6%
16	1,600	11,968	\$74.34	\$79.42	\$67.82	\$67.82	\$142.16	\$147.24	\$5.08	3.6%
17	1,700	12,716	\$78.39	\$83.71	\$71.24	\$71.24	\$149.63	\$154.95	\$5.32	3.6%
18	1,800	13,464	\$82.44	\$88.00	\$74.66	\$74.66	\$157.10	\$162.66	\$5.56	3.5%
19	1,900	14,212	\$86.49	\$92.29	\$78.08	\$78.08	\$164.57	\$170.37	\$5.80	3.5%
20	2,000	14,960	\$90.54	\$96.58	\$81.50	\$81.50	\$172.04	\$178.08	\$6.04	3.5%
21	2,100	15,708	\$94.59	\$100.87	\$84.92	\$84.92	\$179.51	\$185.79	\$6.28	3.5%
22	2,200	16,456	\$98.64	\$105.16	\$88.34	\$88.34	\$186.98	\$193.50	\$6.52	3.5%
23	2,300	17,204	\$102.69	\$109.45	\$91.76	\$91.76	\$194.45	\$201.21	\$6.76	3.5%
24	2,400	17,952	\$106.74	\$113.74	\$95.18	\$95.18	\$201.92	\$208.92	\$7.00	3.5%
25	2,500	18,700	\$110.79	\$118.03	\$98.60	\$98.60	\$209.39	\$216.63	\$7.24	3.5%
26	2,600	19,448	\$114.84	\$122.32	\$102.02	\$102.02	\$216.86	\$224.34	\$7.48	3.4%
27	2,700	20,196	\$118.89	\$126.61	\$105.44	\$105.44	\$224.33	\$232.05	\$7.72	3.4%
28	2,800	20,944	\$122.94	\$130.90	\$108.86	\$108.86	\$231.80	\$239.76	\$7.96	3.4%
29	2,900	21,692	\$126.99	\$135.19	\$112.28	\$112.28	\$239.27	\$247.47	\$8.20	3.4%
30	3,000	22,440	\$131.04	\$139.48	\$115.70	\$115.70	\$246.74	\$255.18	\$8.44	3.4%
31	3,100	23,188	\$135.09	\$143.77	\$119.12	\$119.12	\$254.21	\$262.89	\$8.68	3.4%
32	3,200	23,936	\$139.14	\$148.06	\$122.54	\$122.54	\$261.68	\$270.60	\$8.92	3.4%
33	3,300	24,684	\$143.19	\$152.35	\$125.96	\$125.96	\$269.15	\$278.31	\$9.16	3.4%
34	3,400	25,432	\$147.24	\$156.64	\$129.38	\$129.38	\$276.62	\$286.02	\$9.40	3.4%
35	3,500	26,180	\$151.29	\$160.93	\$132.80	\$132.80	\$284.09	\$293.73	\$9.64	3.4%
36	3,600	26,928	\$155.34	\$165.22	\$136.22	\$136.22	\$291.56	\$301.44	\$9.88	3.4%
37	3,700	27,676	\$159.39	\$169.51	\$139.64	\$139.64	\$299.03	\$309.15	\$10.12	3.4%
38	3,800	28,424	\$163.44	\$173.80	\$143.06	\$143.06	\$306.50	\$316.86	\$10.36	3.4%
39	3,900	29,172	\$167.49	\$178.09	\$146.48	\$146.48	\$313.97	\$324.57	\$10.60	3.4%
40	4,000	29,920	\$171.54	\$182.38	\$149.90	\$149.90	\$321.44	\$332.28	\$10.84	3.4%
41	4,100	30,668	\$175.59	\$186.67	\$153.32	\$153.32	\$328.91	\$339.99	\$11.08	3.4%
42	4,200	31,416	\$179.64	\$190.96	\$156.74	\$156.74	\$336.38	\$347.70	\$11.32	3.4%
43	4,300	32,164	\$183.69	\$195.25	\$160.16	\$160.16	\$343.85	\$355.41	\$11.56	3.4%
44	4,400	32,912	\$187.74	\$199.54	\$163.58	\$163.58	\$351.32	\$363.12	\$11.80	3.4%
45	4,500	33,660	\$191.79	\$203.83	\$167.00	\$167.00	\$358.79	\$370.83	\$12.04	3.4%
46	4,600	34,408	\$195.84	\$208.12	\$170.42	\$170.42	\$366.26	\$378.54	\$12.28	3.4%
47	4,700	35,156	\$199.89	\$212.41	\$173.84	\$173.84	\$373.73	\$386.25	\$12.52	3.4%
48	4,800	35,904	\$203.94	\$216.70	\$177.26	\$177.26	\$381.20	\$393.96	\$12.76	3.3%
49	4,900	36,652	\$207.99	\$220.99	\$180.68	\$180.68	\$388.67	\$401.67	\$13.00	3.3%
50	5,000	37,400	\$212.04	\$225.28	\$184.10	\$184.10	\$396.14	\$409.38	\$13.24	3.3%

**Inside Sprinkler 5/8" Meter Water Bill Calculations**

Monthly Use (CCF)	Monthly Use (CF)	Monthly Use (Gal)	Current FY 18	Proposed (JAN FY 19)	\$ Chg	% Chg
0	0	0	\$9.54	\$10.78	\$1.24	13.0%
1	100	748	\$13.59	\$15.07	\$1.48	10.9%
2	200	1,496	\$17.64	\$19.36	\$1.72	9.8%
3	300	2,244	\$21.69	\$23.65	\$1.96	9.0%
4	400	2,992	\$25.74	\$27.94	\$2.20	8.5%
5	500	3,740	\$29.79	\$32.23	\$2.44	8.2%
6	600	4,488	\$35.87	\$38.67	\$2.80	7.8%
7	700	5,236	\$41.95	\$45.11	\$3.16	7.5%
8	800	5,984	\$48.03	\$51.55	\$3.52	7.3%
9	900	6,732	\$54.11	\$57.99	\$3.88	7.2%
10	1,000	7,480	\$60.19	\$64.43	\$4.24	7.0%
11	1,100	8,228	\$60.19	\$64.43	\$4.24	7.0%
12	1,200	8,976	\$60.19	\$64.43	\$4.24	7.0%
13	1,300	9,724	\$60.19	\$64.43	\$4.24	7.0%
14	1,400	10,472	\$60.19	\$64.43	\$4.24	7.0%
15	1,500	11,220	\$60.19	\$64.43	\$4.24	7.0%
16	1,600	11,968	\$69.31	\$74.10	\$4.79	6.9%
17	1,700	12,716	\$78.43	\$83.77	\$5.34	6.8%
18	1,800	13,464	\$87.55	\$93.44	\$5.89	6.7%
19	1,900	14,212	\$96.67	\$103.11	\$6.44	6.7%
20	2,000	14,960	\$105.79	\$112.78	\$6.99	6.6%
21	2,100	15,708	\$114.91	\$122.45	\$7.54	6.6%
22	2,200	16,456	\$124.03	\$132.12	\$8.09	6.5%
23	2,300	17,204	\$133.15	\$141.79	\$8.64	6.5%
24	2,400	17,952	\$142.27	\$151.46	\$9.19	6.5%
25	2,500	18,700	\$151.39	\$161.13	\$9.74	6.4%
26	2,600	19,448	\$160.51	\$170.80	\$10.29	6.4%
27	2,700	20,196	\$169.63	\$180.47	\$10.84	6.4%
28	2,800	20,944	\$178.75	\$190.14	\$11.39	6.4%
29	2,900	21,692	\$187.87	\$199.81	\$11.94	6.4%
30	3,000	22,440	\$196.99	\$209.48	\$12.49	6.3%
31	3,100	23,188	\$206.11	\$219.15	\$13.04	6.3%
32	3,200	23,936	\$215.23	\$228.82	\$13.59	6.3%
33	3,300	24,684	\$224.35	\$238.49	\$14.14	6.3%
34	3,400	25,432	\$233.47	\$248.16	\$14.69	6.3%
35	3,500	26,180	\$242.59	\$257.83	\$15.24	6.3%
36	3,600	26,928	\$251.71	\$267.50	\$15.79	6.3%
37	3,700	27,676	\$260.83	\$277.17	\$16.34	6.3%
38	3,800	28,424	\$269.95	\$286.84	\$16.89	6.3%
39	3,900	29,172	\$279.07	\$296.51	\$17.44	6.2%
40	4,000	29,920	\$288.19	\$306.18	\$17.99	6.2%
41	4,100	30,668	\$297.31	\$315.85	\$18.54	6.2%
42	4,200	31,416	\$306.43	\$325.52	\$19.09	6.2%
43	4,300	32,164	\$315.55	\$335.19	\$19.64	6.2%
44	4,400	32,912	\$324.67	\$344.86	\$20.19	6.2%
45	4,500	33,660	\$333.79	\$354.53	\$20.74	6.2%
46	4,600	34,408	\$342.91	\$364.20	\$21.29	6.2%
47	4,700	35,156	\$352.03	\$373.87	\$21.84	6.2%
48	4,800	35,904	\$361.15	\$383.54	\$22.39	6.2%
49	4,900	36,652	\$370.27	\$393.21	\$22.94	6.2%
50	5,000	37,400	\$379.39	\$402.88	\$23.49	6.2%

### 7.0 APPENDIX B: Miscellaneous Fee Support

<b>Type of Fee:</b>	<b>New Service</b>	<b>Proposed Fee:</b>	<b>\$15.00</b>
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Cost Type	Position/Equipment/Vehicles/Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Supervisor	Dertra First contact (Walk in, Phone, Email or Fax ( mainly this type) Application process, general information, Trash form	\$20.78	10	1	\$3.46	\$3.46
Labor	Utility Cust. Service Supervisor	Deposit (auto pay) required phone call	\$20.78	13	1	\$4.50	\$4.50
Labor	Utility Cust. Service Supervisor	Service order	\$20.78	3	1	\$1.04	\$1.04
Labor	Utility Cust. Service Supervisor	Final Read Order	\$20.78	5	1	\$1.73	\$1.73
Labor	Meter Service Tech	New Service	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Turn on Meter	\$13.37	3	1	\$0.67	\$0.67
Vehicle	Truck	Tacoma or F-150	\$0.58	10	1	\$0.10	\$0.10
<b>Total Costs</b>							<b>\$14.84</b>

<b>Type of Fee:</b>	<b>Transfer of Service</b>	<b>Proposed Fee:</b>	<b>\$10.00</b>
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Cost Type	Position/Equipment/Vehicles/Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Supervisor	Dertra First contact (Walk in, Phone, Email or Fax ( mainly this type)	\$20.78	10	1	\$3.46	\$3.46
Labor	Utility Cust. Service Supervisor	Service Order	\$20.78	3	1	\$1.04	\$1.04
Labor	Utility Cust. Service Supervisor	Billing Service order ( final read) person ( finalize)	\$20.78	5	1	\$1.73	\$1.73
Labor	Meter Service Tech	Trip to site	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Turn on meter	\$13.37	3	1	\$0.67	\$0.67
Vehicle	Truck	Tacoma or F-150 Work Vehicle	\$0.58	10	1	\$0.10	\$0.10
<b>Total Costs</b>							<b>\$9.67</b>



<b>Type of Fee:</b>	<b>Damaged Mechanisms</b>	<b>Proposed Fee:</b>	<b>\$211.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Specialist	Service Order	\$13.53	5	1	\$1.13	\$1.13
Labor	Meter Service Tech	Drive Time	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Damaged Mechanisms	\$13.37	75	1	\$16.71	\$16.71
Vehicle	Truck	Tacoma or F-150	\$0.58	15	1	\$0.15	\$0.15
Materials	RCDL M25 LL Disc Meter	Damaged Mechanisms	\$190.00	1	1	\$190.00	\$190.00
<b>Total Costs</b>							<b>\$211.33</b>

<b>Type of Fee:</b>	<b>Service Restoration</b>	<b>Proposed Fee:</b>	<b>\$9.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Specialist	Write Report	\$13.53	5	1	\$1.13	\$1.13
Labor	Utility Cust. Service Specialist	Call Customer	\$13.53	15	1	\$3.38	\$3.38
Labor	Meter Service Tech	Travel Time	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Turn Meter On	\$13.37	3	1	\$0.67	\$0.67
Vehicle	Truck	Tacoma Or F-150	\$0.58	15	1	\$0.15	\$0.15
<b>Total Costs</b>							<b>\$8.67</b>



<b>Type of Fee:</b>	<b>Re-reading of Meter</b>	<b>Proposed Fee:</b>	<b>\$12.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Supervisor	Call With Customer	\$20.78	10	1	\$3.46	\$3.46
Labor	Utility Cust. Service Supervisor	Service order	\$20.78	7	1	\$2.42	\$2.42
Labor	Utility Cust. Service Supervisor	Follow up with Customer	\$20.78	5	1	\$1.73	\$1.73
Labor	Meter Service Tech	Re-reading of Meter	\$13.37	3	1	\$0.67	\$0.67
Labor	Meter Service Tech	Travel Time	\$13.37	15	1	\$3.34	\$3.34
Vehicle	Truck	Tacoma or F-150	\$0.58	15	1	\$0.15	\$0.15
<b>Total Costs</b>							<b>\$11.77</b>

<b>Type of Fee:</b>	<b>Pressure/Meter Testing</b>	<b>Proposed Fee:</b>	<b>\$25.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Specialist	Customer Contact Service Order	\$13.53	5	1	\$1.13	\$1.13
Labor	Meter Service Tech	Travel Time	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Meter Removal	\$13.37	30	1	\$6.69	\$6.69
Labor	Meter Services Supervisor	Meter Profile	\$20.78	15	1	\$5.20	\$5.20
Labor	Sr. Meter Service Tech	Pressure/Meter Testing	\$16.10	30	1	\$8.05	\$8.05
Vehicle	Truck	Tacoma or F-150	\$0.58	15	1	\$0.15	\$0.15
<b>Total Costs</b>							<b>\$24.56</b>

<b>Type of Fee:</b>	<b>Meter Replacement</b>	<b>Proposed Fee:</b>	<b>\$211.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Specialist	Customer contact & service request	\$13.53	5	1	\$1.13	\$1.13
Labor	Meter Service Tech	Travel Time	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Meter Replacement	\$13.37	75	1	\$16.71	\$16.71
Vehicle	Truck	Tacoma or F-150	\$0.58	15	1	\$0.15	\$0.15
Materials	RCDL M25 LL Disc Meter	New Meter	\$190.00	1	1	\$190.00	\$190.00
<b>Total Costs</b>							<b>\$211.33</b>



<b>Type of Fee:</b>	<b>Billing Records Profiles</b>	<b>Proposed Fee:</b>	<b>\$15.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Meter Service Tech	Travel to Meter	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Read the Meter	\$13.37	3	1	\$0.67	\$0.67
Labor	Meter Services Supervisor	Billing Records Profiles	\$20.78	30	1	\$10.39	\$10.39
Vehicle	Truck	Tacoma or F-150	\$0.58	15	1	\$0.15	\$0.15
<b>Total Costs</b>							<b>\$14.55</b>

<b>Type of Fee:</b>	<b>Meter Removal</b>	<b>Proposed Fee:</b>	<b>\$14.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Utility Cust. Service Billing Specialist	Run Cycle for Vacant Usage	\$13.38	3	1	\$0.67	\$0.67
Labor	Utility Cust. Service Billing Specialist	Investigate account usage	\$13.38	5	1	\$1.12	\$1.12
Labor	Utility Cust. Service Billing Specialist	Send Service Leter	\$13.38	3	2	\$0.67	\$1.34
Labor	Utility Cust. Service Billing Specialist	Service Order	\$13.38	3	1	\$0.67	\$0.67
Labor	Meter Service Tech	Travel to Site	\$13.37	15	1	\$3.34	\$3.34
Labor	Meter Service Tech	Meter Removal	\$13.37	30	1	\$6.69	\$6.69
Vehicle	Truck	Tacoma or F-150	\$0.58	15	1	\$0.15	\$0.15
<b>Total Costs</b>							<b>\$13.98</b>



<b>Type of Fee:</b>	<b>4" Sewer Tap</b>	<b>Proposed Fee:</b>	<b>\$806.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Crew leader	4" Sewer Tap	\$17.70	600	1	\$177.00	\$177.00
Labor	Operator	4" Sewer Tap	\$16.85	600	1	\$168.50	\$168.50
Labor	Labor	4" Sewer Tap	\$12.05	600	2	\$120.50	\$241.00
Vehicle	Crew Truck	4" Sewer Tap	\$3.18	600	1	\$31.80	\$31.80
Vehicle	BackHoe	4" Sewer Tap	\$5.13	600	1	\$51.30	\$51.30
Vehicle	Air Compressor	4" Sewer Tap	\$2.50	600	1	\$25.00	\$25.00
Vehicle	Dump Truck	4" Sewer Tap	\$0.57	600	1	\$5.70	\$5.70
Materials	4"x10" PVC Tapping Saddle	4" Sewer Tap	\$39.30	1	1	\$39.30	\$39.30
Materials	4" PVC Pipe	4" Sewer Tap	\$1.75	20	1	\$35.00	\$35.00
Materials	4" PVC two way Cleanout Tee	4" Sewer Tap	\$16.85	1	1	\$16.85	\$16.85
Materials	4" PVC 1/8 Bend sch 40	4" Sewer Tap	\$6.50	1	1	\$6.50	\$6.50
Materials	4" PVC Cleanout Threaded	4" Sewer Tap	\$2.90	1	1	\$2.90	\$2.90
Materials	4" PVC Cleanout Cap	4" Sewer Tap	\$1.65	1	1	\$1.65	\$1.65
Materials	Bag of Ready Mix	4" Sewer Tap	\$3.00	1	1	\$3.00	\$3.00
<b>Total Costs</b>							<b>\$805.50</b>

<b>Type of Fee:</b>	<b>3/4" Sewer Tap</b>	<b>Proposed Fee:</b>	<b>\$369.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Crew leader	3/4" Water Tap	\$17.70	60	1	\$17.70	\$17.70
Labor	Operator	3/4" Water Tap	\$16.85	60	1	\$16.85	\$16.85
Labor	Labor	3/4" Water Tap	\$12.05	60	2	\$12.05	\$24.10
Vehicle	Crew Truck	3/4" Water Tap	\$3.18	60	1	\$3.18	\$3.18
Vehicle	BackHoe	3/4" Water Tap	\$5.13	60	1	\$5.13	\$5.13
Vehicle	Air Compressor	3/4" Water Tap	\$2.50	60	1	\$2.50	\$2.50
Vehicle	Dump Truck	3/4" Water Tap	\$0.57	60	1	\$0.57	\$0.57
Materials	3/4" Meter	3/4" Water Tap	\$190.00	1	1	\$190.00	\$190.00
Materials	3/4" x 6" Tapping Saddle	3/4" Water Tap	\$27.50	1	1	\$27.50	\$27.50
Materials	3/4" Corp. Stop CC x P Joint	3/4" Water Tap	\$20.35	1	1	\$20.35	\$20.35
Materials	3/4" of PE Polyethylene Tubing	3/4" Water Tap	\$0.21	20	1	\$4.20	\$4.20
Materials	3/4" T-Stop IP x PJ	3/4" Water Tap	\$36.60	1	1	\$36.60	\$36.60
Materials	3/4" Meter Couplings	3/4" Water Tap	\$4.35	2	1	\$8.70	\$8.70
Materials	Plastic Meter Box	3/4" Water Tap	\$12.08	1	1	\$12.08	\$12.08
<b>Total Costs</b>							<b>\$369.46</b>



<b>Type of Fee:</b>	<b>1" Sewer Tap</b>	<b>Proposed Fee:</b>	<b>\$475.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Crew leader	1" Water Tap	\$17.70	60	1	\$17.70	\$17.70
Labor	Operator	1" Water Tap	\$16.85	60	1	\$16.85	\$16.85
Labor	Labor	1" Water Tap	\$12.05	60	1	\$12.05	\$12.05
Vehicle	Crew Truck	1" Water Tap	\$3.18	60	1	\$3.18	\$3.18
Vehicle	BackHoe	1" Water Tap	\$5.13	60	1	\$5.13	\$5.13
Vehicle	Air Compressor	1" Water Tap	\$2.50	60	1	\$2.50	\$2.50
Vehicle	Dump Truck	1" Water Tap	\$0.57	60	1	\$0.57	\$0.57
Materials	1 " meter	1" Water Tap	\$272.00	1	1	\$272.00	\$272.00
Materials	1" x 6" tapping saddle	1" Water Tap	\$27.27	1	1	\$27.27	\$27.27
Materials	1" corp. stop cc x p joint	1" Water Tap	\$30.82	1	1	\$30.82	\$30.82
Materials	1" of PE Polyethylene tubing	1" Water Tap	\$0.35	20	1	\$7.00	\$7.00
Materials	1" t-stop ip x pj	1" Water Tap	\$56.17	1	1	\$56.17	\$56.17
Materials	1" meter couplings	1" Water Tap	\$5.80	2	1	\$11.60	\$11.60
Materials	plastic meter box	1" Water Tap	\$12.08	1	1	\$12.08	\$12.08
<b>Total Costs</b>							<b>\$474.92</b>

<b>Type of Fee:</b>	<b>1 1/2" Sewer Tap</b>	<b>Proposed Fee:</b>	<b>\$837.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Crew leader	1 1/2" Water Tap	\$17.70	60	1	\$17.70	\$17.70
Labor	Operator	1 1/2" Water Tap	\$16.85	60	1	\$16.85	\$16.85
Labor	Labor	1 1/2" Water Tap	\$12.05	60	1	\$12.05	\$12.05
Vehicle	Crew Truck	1 1/2" Water Tap	\$3.18	60	1	\$3.18	\$3.18
Vehicle	BackHoe	1 1/2" Water Tap	\$5.13	60	1	\$5.13	\$5.13
Vehicle	Air Compressor	1 1/2" Water Tap	\$2.50	60	1	\$2.50	\$2.50
Vehicle	Dump Truck	1 1/2" Water Tap	\$0.57	60	1	\$0.57	\$0.57
Materials	1 1/2 " meter	1 1/2" Water Tap	\$455.00	1	1	\$455.00	\$455.00
Materials	1 1/2" x 6" tapping saddle	1 1/2" Water Tap	\$32.31	1	1	\$32.31	\$32.31
Materials	1 1/2" corp. stop cc x p joint	1 1/2" Water Tap	\$87.35	1	1	\$87.35	\$87.35
Materials	1 1/2" of PE Polyethylene tubing	1 1/2" Water Tap	\$0.77	20	1	\$15.40	\$15.40
Materials	1 1/2" t-stop ip x pj	1 1/2" Water Tap	\$123.16	1	1	\$123.16	\$123.16
Materials	1 1/2" flanges	1 1/2" Water Tap	\$27.05	2	1	\$54.10	\$54.10
Materials	plastic meter box	1 1/2" Water Tap	\$12.08	1	1	\$12.08	\$12.08
<b>Total Costs</b>							<b>\$837.38</b>



<b>Type of Fee:</b>	<b>2" Sewer Tap</b>	<b>Proposed Fee:</b>	<b>\$1,244.00</b>
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Cost Type	Position/Equipment/Vehicles/ Materials	Task	Average Direct Labor Rate per Hour	Time per Task per Occurrence (Minutes)	Number of Occurrences	Labor Costs per Occurrence	Total Labor Costs
Labor	Crew leader	2" Water Tap	\$17.70	60	1	\$17.70	\$17.70
Labor	Operator	2" Water Tap	\$16.85	60	1	\$16.85	\$16.85
Labor	Labor	2" Water Tap	\$12.05	60	1	\$12.05	\$12.05
Vehicle	Crew Truck	2" Water Tap	\$3.18	60	1	\$3.18	\$3.18
Vehicle	BackHoe	2" Water Tap	\$5.13	60	1	\$5.13	\$5.13
Vehicle	Air Compressor	2" Water Tap	\$2.50	60	1	\$2.50	\$2.50
Vehicle	Dump Truck	2" Water Tap	\$0.57	60	1	\$0.57	\$0.57
Materials	2 " meter	2" Water Tap	\$590.00	1	1	\$678.50	\$678.50
Materials	2" x 6" tapping saddle	2" Water Tap	\$32.34	1	1	\$37.19	\$37.19
Materials	2" corp. stop cc x p joint	2" Water Tap	\$144.46	1	1	\$166.13	\$166.13
Materials	2" of PE Polyethylene tubing	2" Water Tap	\$1.23	20	1	\$28.20	\$28.20
Materials	2" t-stop ip x pj	2" Water Tap	\$171.46	1	1	\$197.18	\$197.18
Materials	2" flanges	2" Water Tap	\$28.23	2	1	\$64.92	\$64.92
Materials	plastic meter box	2" Water Tap	\$12.08	1	1	\$13.89	\$13.89
<b>Total Costs</b>							<b>\$1,243.99</b>