

San Lorenzo Valley Water District Enterprise Wide Cost of Service Financial Study Final Report November 2016

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SECTION 1. PURPOSE AND OVERVIEW OF THE STUDY

PURPOSE

San Lorenzo Valley Water District (District) retained NBS in February this year to conduct an Enterprise Wide Cost of Service Financial Study for a number of reasons, including performing a thorough cost of service analysis for water and wastewater systems. Additionally, this study included an assessment of the water and wastewater systems as well as a water and wastewater staffing study. These two tasks were performed by sub consultants, V. W. Housen & Associates, Inc. and DeLoach & Associates, Inc., respectively. Both sub consultants provided reports which were prepared independent from this document, but included as appendices (under separate cover) for reference.

A cost-of-service study, unlike a rate study, is intended to identify the annual costs that should be allocated to each of the District's customer classes, whereas a "rate study" results in individual rates for each class. The cost of service analysis performed in this study was developed in a manner that is consistent with industry standards. In addition to documenting the study methodology, this report is provided with the intent of assisting District to maintain transparent communications with its residents and businesses.

NBS worked cooperatively with District staff in developing the cost of service analysis (COS or COSA) and this report summarizes the final results.

OVERVIEW OF THE STUDY

Comprehensive "rate studies" typically include the three components shown in **Figure 1**: (1) preparation of a financial plan which identifies the net revenue requirements for the utility; (2) analysis of the cost to serve each customer class (i.e., the "cost-of-service" addressed in this study), and; (3) the rate structure design.

Figure 1. Primary Components of a Rate Study



Step 1: Financial Plan/ Revenue Requirements – Compares current sources and uses of funds and determines the revenue needed from rates and project rate adjustments.

Step 2: Cost-of-Service Analysis – Proportionately allocates the revenue requirements to the customer classes in compliance with industry standards and State Law.

Step 3: Rate Design - Considers what rate structure will best meet the District's need to collect rate revenue from each customer class.

These steps are intended to follow industry standards and reflect the fundamental principles embodied in the American Water Works Association (AWWA) Principles of Water Rates, Fees, and Charges₁, also referred to as Manual M1. In terms of the chronology of the study, these three steps represent the order they were performed in this Study. Following this chronology, this study completes the first two steps, resulting in the total annual net revenue requirements and the cost-of-service (COS) for each customer class. The District intends to address the third step for rate design in a separate rate study.

The following sections in this report present an overview of the methodologies, assumptions, and data used along with the financial plans and COS results. Appendix A provides more detailed cost-of-service figures; Appendices B and C provide tables and figures documenting the development of the results.

¹ Principles of Water Rates, Fees, and Charges, Manual of Water Supply Practices, M1, AWWA, sixth edition, 2012.



Key Financial Assumptions

The following are the key financial assumptions used in the cost of service analyses:

- Funding of Water & Wastewater Utility Capital Projects The District plans to fund planned capital costs through rate revenues and existing reserves2. The capital projects listed in the financial plan are from District's projection of costs recently provided by V. W. Housen & Associates, Inc. through FY 2025/26.
- Reserve Targets Reserves for operations and capital needs are set at the target level that was established by the Board in Resolution 9 (16-17). These reserves are considered unrestricted reserves and consist of the following:

Water:

- ✓ Operating Reserve equal to \$1.5 million for FY 2016/17 and growing to 180 days of operating expenses over ten years.
- Capital Improvement Reserve equal to \$2.0 million or 3 percent of Net Capital Assets, whichever is greater.

Wastewater:

- ✓ Operating Reserve equal to 90 days of operating expenses, or \$31,500 for FY 2016/17.
- Capital Improvement Reserve equal to \$97,000 for FY 2016/17, which approximates the annual average of CIP expenditures.
- **Inflation and Growth Projections** Assumptions were made in the analysis with regard to cost inflation in order to project future expenses for the study period. The following inflation factors were used in the analysis, for both water and wastewater utilities:
 - Customer growth is 0.0 percent annually.
 - ✓ General cost inflation is 2.65 percent annually.
 - ✓ Labor and Health Benefits cost inflation is 2.69 percent annually.
 - Chemical cost inflation is 5.0 percent annually.
 - ✓ Energy cost inflation is 4.4 percent annually.

These inflation factors are based on specific cost indices and/or common values adopted by other California water agencies; see page 12 of Appendix B for details.

² We have reflected the results of V.W. Housen and Associate's analysis; how much of those capital project costs the District ultimately funds will be determined by the District's Board at a future date.



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SECTION 2. WATER COST OF SERVICE STUDY

KEY COST OF SERVICE STUDY ISSUES

The District's cost of service analysis was undertaken with a few specific objectives, including:

- Developing a long-term financial plan incorporating recommended capital improvement program costs and staffing study results, as well as annual operating, debt service and administrative costs.
- Identifying cost requirements by customer class.

The following are the basic components included in this analysis:

- **Developing Annual Cost of Service:** NBS developed various financial plan alternatives as requested by District staff over the course of this study to reflect budgeted operating and planned capital improvement costs.
- **Developing Functionalized Costs:** The water utility costs were "functionalized" into three categories: (1) customer service costs; (2) fixed capacity costs; and (3) commodity (or volume-based) costs.
- Determining Cost by Customer Class₃: Costs for each of these functional categories were then allocated to customer classes based on allocation factors, such as water consumption, peaking factors, and number of accounts by meter size. The total cost for each customer class was determined using these functional costs and allocation factors. For example:
 - Fixed capacity costs are allocated based on peaking requirements.
 - √ Volume-related costs are allocated based on the water consumption for each class.
 - Customer costs are allocated based on number of meters.

Once the costs are allocated and determined, collecting comparable revenue from each customer class would be evaluated in the separate rate design study at a later date.

WATER UTILITY COST OF SERVICE

The basic objective of the cost of service analysis is to identify the annual operating and capital costs as they would be developed based on sound financial management practices. This includes maintaining reasonable reserves in order to handle emergencies, appropriate levels of working capital, and maintaining a good credit rating. The current state of the District, with regard to these objectives, is as follows:

- Cost of Service: For FY 2016/17 through FY 2020/21, the projected annual cost service (total annual expenses plus debt service plus capital costs) increase from approximately \$9.7 million to \$10.6 million.
- Maintaining Adequate Bond Coverage: The District is required by its bond covenants to maintain a debt service coverage ratio of at least 1.25 for the outstanding 2012 Revenue Bond.
- Reserve Funds: As a part of this analysis, target reserve fund levels of approximately \$4 million were developed: this is an increase over the existing \$3.5 million reserve target that was established by the Board in Resolution 9 (16-17). The reserve funds for the Utility are considered unrestricted reserves and consist of the following:
 - ✓ Operating Reserve should equal approximately \$1.5 million or up to 180 days of operating expenses. An Operating Reserve is intended to promote financial viability in the event of any short-term fluctuation in revenues and/or expenditures, such as those caused by weather patterns, the natural inflow and outflow of cash during billing cycles, natural variability in demand-based revenue

³ District currently uses meter sizes as customer classes; however, revenue requirements were established for customer classes, not meter sizes.



- streams (volumetric charges), and particularly in periods of economic distress changes or trends in age of receivables.
- ✓ Capital Reserve should be approximately \$2 million or up to 3 percent of net assets, which is set aside to address long-term capital system replacement and rehabilitation needs. If this reserve is maintained at the target established by the Board, District will have a healthy cash reserve for future capital needs.
- Capital Improvement Projects: The District has a number of capital improvement projects that are necessary in order for the Utility to maintain and improve current service levels. District staff has identified roughly \$3.6 million in expected capital expenditures for FY 2015/16, \$3.1 million in FY 2016/17, and every year thereafter \$2.6 to \$2.9 million in capital expenditures are expected (future year value).

Figure 2 summarizes the uses of funds and total costs for the next 5 years. The utility's proposed 10-year financial plan is included in Appendix B, and include costs, reserve funds, and the District's capital improvement program. **Figure 3** summarizes the projected reserve fund balances and reserve targets assuming the capital improvement projects will be fully funded. As this figure shows, the District will need to address projected annual deficits.

Budget Projected Cost of Service Summary FY 2017/18 FY 2015/16 FY 2016/17 FY 2018/19 FY 2019/20 FY 2020/21 Costs of Water Service 5,716,286 \$ 6,269,040 \$ 6,735,741 7,114,838 \$ 7,404,526 7,601,305 Water Fund Expenses 896,508 896,508 896,508 896,508 795,095 693,682 **Debt Service** 2,397,525 3,100,000 2,583,059 2,660,550 2,740,367 2,822,578 Capital Expenses \$ 10,671,896 9,010,318 \$ 10,265,547 \$ 10,215,307 \$ 10,939,988 \$ 11,117,565 Total

Figure 2. Summary of Annual Cost of Service

Beginning Reserve Fund Balances and		Budget	Projected										
Recommended Reserve Targets	F	FY 2015/16		Y 2016/17	F	Y 2017/18	F	Y 2018/19	FY 2019/20		F	Y 2020/21	
Operating Reserve													
Ending Balance	\$	(430,534)	\$	(4,833,859)	\$	(9,186,372)	\$	(13,994,540)	\$ ((19,069,865)	\$	(24,321,834)	
Recommended Minimum Target		1,500,000		1,500,000		1,684,000		1,779,000		1,851,000		1,900,000	
Capital Rehabilitation & Replacement Reserve													
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
Recommended Minimum Target		2,000,000		2,000,000		2,000,000		2,000,000		2,000,000		2,000,000	
Debt Reserve													
Ending Balance	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	
Recommended Minimum Target		373,594		373,594		373,594		373,594		373,594		373,594	
Total Ending Balance	\$	(56,940)	\$	(4,460,264)	\$	(8,812,777)	\$ ((13,620,945)	\$ ((18,696,271)	\$	(23,948,240)	
Total Recommended Minimum Target	\$	3,873,594	\$	3,873,594	\$	4,057,594	\$	4,152,594	\$	4,224,594	\$	4,273,594	

CHARACTERISTICS OF WATER CUSTOMERS BY CUSTOMER CLASS

The amount of consumption, the peaking factors, and the number of meters by customer class are all factors used in allocating costs as a part of the cost-of-service analysis. The District's most recent consumption data is summarized in **Figure 4**, peaking factors by meter size are summarized in **Figure 5**, and **Figure 6** compares the total number of meters by customer class.

In Figure 4, the impact of expected customer conservation has been included. Staff expects that for FY 2015/16, water customers will consume 634,462 hundred cubic feet (ccf) of water.



Figure 4. Water Consumption by Customer Class

Development of the COMMODITY	(Volumetric) Alloc	ation Factor - Wate	er Utility	
Customer Class	FY 2014/15 Volume (ccf) (1)	% Adjustment for Conservation	Estimated FY 2015/16 Volume Adjusted for Conservation	Percent of Total Volume
Residential	457,003	0%	444,202	70.0%
Multi-Family Residential	107,598	0%	100,184	15.8%
Commercial	8,231	0%	7,261	1.1%
Industrial	31,792	0%	31,389	4.9%
Landscape/Irrigation	35,924	0%	36,761	5.8%
Other systems	5,725	0%	5,779	0.9%
Private Mutual	5,310	0%	6,368	1.0%
Surplus (bulk water sales)	1,330	0%	2,149	0.3%
Vacant	452	0%	370	0.1%
Total	653,365	3%	634,462	100%

^{1.} Consumption data is based on the SLVWD's billing data.

Peaking factors for each customer class are shown in Figure 5. A "peaking factor" is the ratio of each meter size's peak monthly use to its average monthly use. Both operating costs and capital infrastructure costs incurred to accommodate peak system capacity events are generally allocated to each customer class according to its peaking factor.

Figure 5. Peaking Factors by Customer Class

Development of the CAPACITY (M	IAX MONTH) Alloca	tion Factors		
Customer Class	Average Monthly	Peak Monthly	Peak Monthly	Max Month
	Use (ccf)	Use (ccf) (1)	Factor	Capacity Factor
Residential	37,017	48,392	1.31	67.6%
Multi-Family Residential	8,349	10,486	1.26	14.6%
Commercial	605	1,163	1.92	1.6%
Industrial	2,616	3,170	1.21	4.4%
Landscape/Irrigation Other systems Private Mutual	3,063	4,590	1.50	6.4%
	482	1,157	2.40	1.6%
	531	1,956	3.69	2.7%
Surplus (bulk water sales) Vacant Total	179	642	3.58	0.9%
	31	65	2.11	0.1%
	52,872	71,622	1.35	100%

^{1.} Based on peak monthly data (peak day data not available).

The number of meters by customer class is shown in Figure 6. The customer costs allocated to each customer class as part of the cost of service analysis are based on their total number of meters.



Figure 6. Number of Meters by Customer Class

Development of the CUSTOMER A	Allocation Factor	
Customer Class	Number of Meters (1)	Percent of Total
Residential	6,531	88.6%
Multi-Family Residential	502	6.8%
Commercial	199	2.7%
Industrial	52	0.7%
Landscape/Irrigation	13	0.2%
Other systems	7	0.1%
Private Mutual	6	0.1%
Surplus (bulk water sales)	3	0.0%
Vacant	59	0.8%
Total	7,372	100.0%

^{1.} Meter Count data is based on the SLVWD's billing data for February 2016.

COST OF SERVICE ANALYSIS

Once the total costs of service are determined, as described above, the cost of service analysis distributes those requirements to each of the customer classes. The cost of service analysis consists of two major components: (1) the functionalization and classification of expenses, and (2) the allocation of costs to customer classes. This process is described as follows:

Functionalization, Classification and Allocations

Most costs are not typically allocated 100 percent to fixed or variable categories and, therefore, may be allocated to multiple water service functions. The functionalization/classification of costs provides the basis for allocating the costs to the following cost causation components:

- **Commodity (Variable)** related costs are those costs associated with the total consumption of water over a specified period of time (such as annual).
- Capacity (Fixed) related costs are those costs associated with the maximum demand required or the maximum size of facilities required to meet this demand (i.e., their peaking factors, as shown above).
- Customer (Fixed) related costs are costs associated with having a customer on the water system, such as meter reading, postage and billing.

Once costs have been organized based on the District's budget classifications, they are allocated to these functional cost causation components in determining the cost of service by customer class. When the District proceeds with a rate study, this information will be used to establish new water rates and determine fixed and variable charges. Appendix B includes detailed tables showing how the District's expenses were allocated to these functional cost causation components.

Fixed costs generally consist of costs that a utility incurs to serve customers irrespective of the amount of water they use. These include (1) the infrastructure (capacity-related facilities) required to provide service to customers; (2) costs associated with the peaking requirements, or maximum demand which affects the maximum size of the water supply system, treatment and delivery system, operations and maintenance costs; and (3) administrative and billing costs associated with meter reading, postage and billing.

Variable costs are those that change as the volume of water produced and delivered changes. These commonly include the costs of chemicals used in the treatment process, energy related to pumping for transmission and distribution, and source of supply.



Ideally, utilities should recover all of their fixed costs from fixed charges and all of their variable costs from volumetric charges; when this is the case, fluctuations in water sales revenues would be directly offset by reductions or increases in variable expenses.

The District's costs were divided into categories that can be more generally grouped into fixed and variable costs. This analysis resulted in a cost distribution that is approximately 67 percent fixed and 33 percent variable4. Under the current rate structure, the District collects approximately 53 percent of revenue through fixed charges and 47 percent through variable.

Based on the cost of service analysis, about 67 percent of the District's costs should be collected from fixed charges and 33 percent from volumetric charges. Figure 7 summarizes how costs are allocated to each cost component; a test year of FY 2017/18 was used. A detailed breakdown of all expenses allocated to commodity-, capacity- and customer-related cost components is provided in Appendix B.

Figure 7. Allocated Net Cost Requirements - Water

Classification Components	Ne	Net Cost Requirements (2017/18							
Commodity-Related Costs	\$	3,664,371	33.0%						
Capacity-Related Costs		6,701,540	60.4%						
Customer-Related Costs		737,660	6.6%						
Net Revenue Requirement	\$	11,103,572	100%						

Commodity-related costs are distributed to each customer class based on the percentage of water consumed (previously shown in Figure 4). Capacity-related costs are distributed to each customer class based on the peaking factors (previously shown in Figure 5). Customer related costs are distributed to each customer class based on the number of customers in each customer class (previously shown in Figure 6).

Costs Allocated to Customer Classes

Customer classes are typically determined by grouping customers with similar demand characteristics into categories that reflect the cost differentials to serve each type of customer, such as single-family, multi-family, commercial, etc. This is how customer characteristics and consumption data have been organized in the tables above, and in Figure 8 which summarizes the costs allocated to each customer class for the test year of FY 2017/18. However, the District currently uses meter sizes as customer classes.

⁴ This analysis is presented in Appendix A.



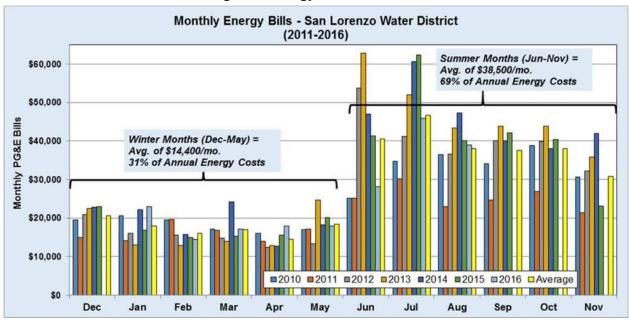
Figure 8. Allocated Net Cost of Service by Customer Class - Water

Allocation of Net Cost Requiremen	Allocation of Net Cost Requirements (Water) By Customer Class - FY 2017/18												
		Cost C	lassi	ification Comp	ı	Net Cost of	% of Net Cost of						
Customer Class	Cor	nmodity (1)	С	apacity (2)	С	ustomer (3)	Re	Service equirements	Service Requirements				
Residential	\$	2,565,511	\$	4,527,989	\$	653,508	\$	7,747,008	69.8%				
Multi-Family Residential		578,619		981,150		50,231		1,610,000	14.5%				
Commercial		41,934		108,848		19,912		170,694	1.5%				
Industrial		181,291		296,647		5,203		483,141	4.4%				
Landscape/Irrigation		212,316		429,523		1,301		643,140	5.8%				
Othersystems		33,374		108,258		700		142,333	1.3%				
Private Mutual		36,779		183,019		600		220,398	2.0%				
Surplus (bulk water sales)		12,412		60,024		300		72,736	0.7%				
Vacant		2,136		6,082		5,904		14,122	0.1%				
Total	\$	3,664,371	\$	6,701,540	\$	737,660	\$	11,103,572	100.0%				

- 1. Commodity Costs are allocated based upon percentage of expected consumption.
- 2. Capacity Costs are allocated based upon Max Month Capacity Factor.
- 3. Customer Costs are allocated based upon Percentage of Total Accounts.

Since the District plans to conduct a rate study in the future, any modifications to the existing meter-size-only rate structure should be considered at that time. Also, as shown in **Figure 9** below, the District clearly has a seasonal component to its water delivery system (winter and summer). This Figure summarizes fluctuations in energy bills and represents pumping costs of water delivered. These and other infrastructure costs, such as wells and peaking-related storage, could be considered and included in developing seasonal rate and/or zonal surcharges. Costs related to conjunctive use might also be applied to seasonality-related rate components.

Figure 9. Energy Bills for SLVWD





SECTION 3. WASTEWATER COST OF SERVICE STUDY

KEY COST OF SERVICE STUDY ISSUES

The District maintains a small wastewater system for a small residential area. The cost of service study for the wastewater utility has the same goals as the water utility.

NBS developed a ten-year financial plan for the wastewater utility over the course of this study, relying on industry standards and cost-of-service principles. The following are the basic components included in this analysis:

- **Developing Annual Cost Requirements:** NBS developed financial plan alternatives as requested by District staff to reflect budgeted sewer operating and capital improvement costs.
- Developing Functionalized Costs: The wastewater revenue requirements were "functionalized" into four categories: (1) customer service costs; (2) fixed biochemical demand (BOD) treatment costs; (3) fixed total suspended solids (TSS) treatment costs; and (4) flow (or volume-based) costs.
- Determining Customer Class Cost Requirements: Costs for each of these functional categories were then allocated to the residential customer class based on allocation factors, such as effluent (flow), effluent strength (BOD and TSS), and number of accounts. Once the costs are allocated by customer class, the rate design would be addressed in a future rate study.

SEWER UTILITY COST OF SERVICE

It is important for municipal utilities to maintain reasonable reserves in order to handle emergencies, fund working capital, maintain a good credit rating, and generally follow sound financial management practices. The current state of the District, with regard to these objectives, is as follows:

- Annual Cost of Service: For FY 2015/16 through FY 2020/21, the projected net cost requirement (that is, total annual expenses plus debt service and capital costs) range from approximately \$133,500 to \$229,000.
- **Building and Maintaining Reserve Funds:** The District plans to establish reserve funds for the sewer utility. The reserve fund recommendations for the Utility are considered unrestricted reserves and consist of the following:
 - ✓ **Operating Reserve** should equal approximately 90 days of operating expenses, or \$34,400 in FY 2016/17. An Operating Reserve is intended to promote financial viability in the event of any short-term fluctuation in revenues and/or expenditures, such as those caused by weather patterns, the natural inflow and outflow of cash during billing cycles, natural variability in demand-based revenue streams (such as volumetric charges), and particularly in periods of economic distress changes or trends in age of receivables.
 - ✓ **Capital Reserve** should be approximately \$100,000, which is set aside to address long-term capital system replacement and rehabilitation needs.
- Capital Improvement Projects: The District has a number of capital improvements that are necessary for the Utility in order to maintain current service levels. District staff has identified roughly \$64,000 in expected capital expenditures for FY 2016/17, and growing at 3 percent inflation (construction cost index) annually through FY 2020/21.summarizes the sources and uses of funds and net cost requirements for the next 5 years. As this figure shows, the District will need to address projected annual deficits in the near future.

Figure 10 summarizes the sources and uses of funds and net cost requirements for the next 5 years. As this figure shows, the District will need to address projected annual deficits in the near future.



Figure 10. Summary of Sewer Costs of Service

Cost of Service Summary	E	Budget	Projected											
	FY	2015/16	FY	/ 2016/17	F۱	2017/18	F'	Y 2018/19	F	Y 2019/20	FY 2020/21			
Costs of Sewer Service Operating Expenses Debt Service	\$	133,470	\$	137,051 -	\$	140,732	\$	144,509	\$	148,385 -	\$	152,364 -		
Capital Expenses				63,880		65,796		67,770		69,803		71,898		
Total	\$	133,470	\$	200,931	\$	206,528	\$	212,279	\$	218,189	\$	224,262		

Figure 11 summarizes the projected reserve fund balances and reserve targets. A summary of the utility's proposed 10-year financial plan is included in Appendix C. These appendix tables include cost requirements, reserve funds, revenue sources, and the District's capital improvement program.

Figure 11. Summary of Sewer Reserve Funds

Beginning Reserve Fund Balances and		Budget	Projected										
Recommended Reserve Targets	F'	/ 2015/16	F	FY 2016/17 FY		Y 2017/18	2017/18 FY 2018/19		FY 2019/20		FY 2020/21		
Un-Restricted Reserves													
Operating Reserve													
Ending Balance	\$	(33,381)	\$	(134,224)	\$	(240,664)	\$	(352,855)	\$	(470,955)	\$	(595,129)	
Recommended Minimum Target		33,400		34,300		35,200		36, 100		37, 100		38, 100	
Capital Rehabilitation & Replacement Reserve													
Ending Balance	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
Recommended Minimum Target		89,778		94,503		96,205		97,994		99,882		101,888	
Total Ending Balance (Un-Restricted Reserves)	\$	(33,381)	\$	(134,224)	\$	(240,664)	\$	(352,855)	\$	(470,955)	\$	(595,129)	
Total Recommended Minimum Target	\$	123,178	\$	128,803	\$	131,405	\$	134,094	\$	136,982	\$	139,988	

COST OF SERVICE ANALYSIS

The total cost from the residential customer class was determined using these functional costs and allocation factors:

- ✓ Volume-related costs are allocated based on the effluent flow.
- ✓ Fixed capacity costs are allocated based on effluent strength (BOD and TSS).
- Customer costs are allocated based on number of accounts, or more specifically the number of equivalent dwelling units (EDUs) connected to the system.

The District only serves residential customers as part of the sewer utility. Since this is not anticipated to change in the near future, all costs are allocated to residential customers as shown in Figure 12. Similar to the Water Cost of Service Analysis, a test year of FY 2017/18 was used. Further tables showing these calculations are included in Appendix C.

Figure 12. Allocated Cost of Service – Sewer

		Co	st Classificat							
			Treat	men				et Cost-of-	% of Net Cost-of-	
Customer Class	Volume		BOD		TSS	Customer Related		Service quirements	Service Requirements	
Net Cost Requirements (1)	\$ 73,370	\$	29,899	\$	29,899	\$ 6,954	\$	140,124		
	52.4%		21.3%		21.3%	5.0%		100.0%		
SINGLE FAMILY	\$ 73,370	\$	29,899	\$	29,899	\$ 6,954	\$	140,124	100.0%	
TOTAL	\$ 73,370	\$	29,899	\$	29,899	\$ 6,954	\$	140,124	100%	

Cost requirement for each customer class is determined by multiplying the requirement from each cost classification by the allocation factors for each customer class.



SECTION 4. RECOMMENDATIONS AND NEXT STEPS

CONSULTANT RECOMMENDATIONS

NBS recommends District take the following actions:

Approve and Accept this Study: NBS recommends the District Board formally approve and adopt this Study and its recommendations. This will provide documentation of the cost of service study analyses and the basis for analyzing potential changes to future rates.

NEXT STEPS

Perform a Rate Study in the Future – Following this cost of service study, the District is poised to move forward with a water and wastewater rate study in the near future to address rate design and actual customer rates. This will ensure the District collects rates to meet revenue requirements in a fair and equitable manner that complies with Proposition 218.

NBS' PRINCIPAL ASSUMPTIONS AND CONSIDERATIONS

In preparing this report and the opinions and recommendations included herein, NBS has relied on a number of principal assumptions and considerations with regard to financial matters, conditions, and events that may occur in the future. This information and these assumptions, including District's budgets, capital improvement costs, sub-consultants' findings and recommendations, and information from District staff were provided by sources we believe to be reliable, although NBS has not independently verified this data.

While we believe NBS' use of such information and assumptions is reasonable for the purpose of this report and its recommendations, some assumptions will invariably not materialize as stated herein and may vary significantly due to unanticipated events and circumstances. Therefore, the actual results can be expected to vary from those projected to the extent that actual future conditions differ from those assumed by us or provided to us by others.

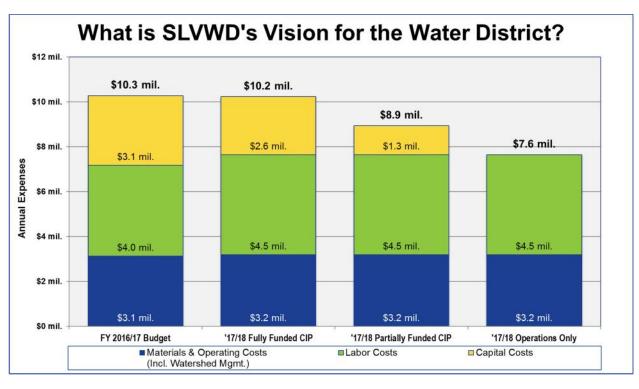
Note: The attached Technical Appendices provide more detailed information on the analysis of the water revenue requirements, cost-of-service analysis and cost allocations, and the rate design analyses that have been summarized in this report.



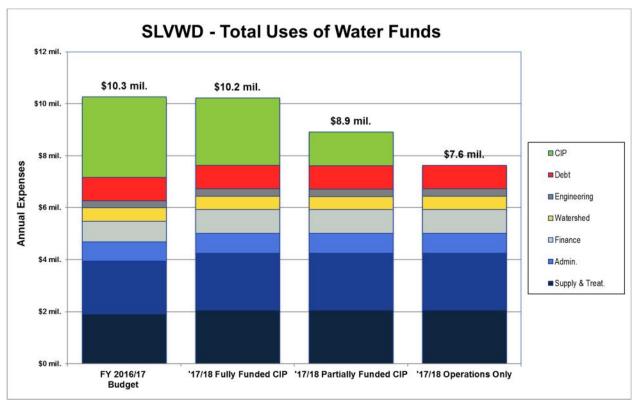
TECHNICAL APPENDICES

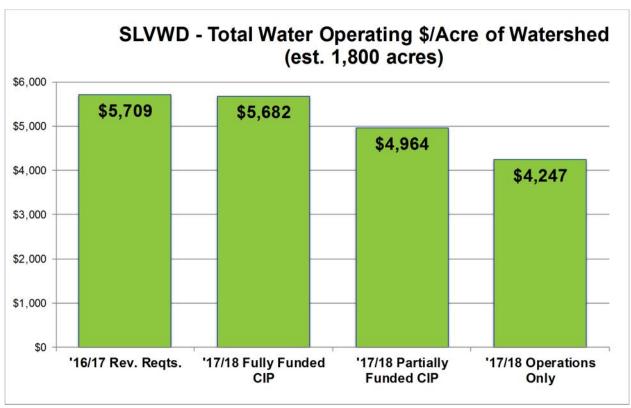
APPENDIX A – COST OF SERVICE FIGURES WATER UTILITY FIGURES

Summary of District Costs	'16/17 Rev. Reqts.	'17/18 Fully Funded CIP	'17/18 Partially Funded CIP	'17/18 Operations Only
Uses of Water Funds				
Water Fund Operating Expenses:				
Administration	739,440	759,041	759,041	759,041
Finance	792,100	913,200	913,200	913,200
Engineering	280,700	287,900	287,900	287,900
Operations/Distribution	2,029,400	2,183,600	2,183,600	2,183,600
Watershed	512,400	526,100	526,100	526,100
Operations/Supply & Treatment	1,915,000	2,065,900	2,065,900	2,065,900
Debt Service	896,508	896,508	896,508	896,508
Capital Expenses	3,100,000	2,583,059	1,291,529	-
Total Use of Funds	\$ 10,265,547	\$ 10,215,307	\$ 8,923,778	\$ 7,632,249
Add'l. Revenue Needed	0%	112%	56%	0%





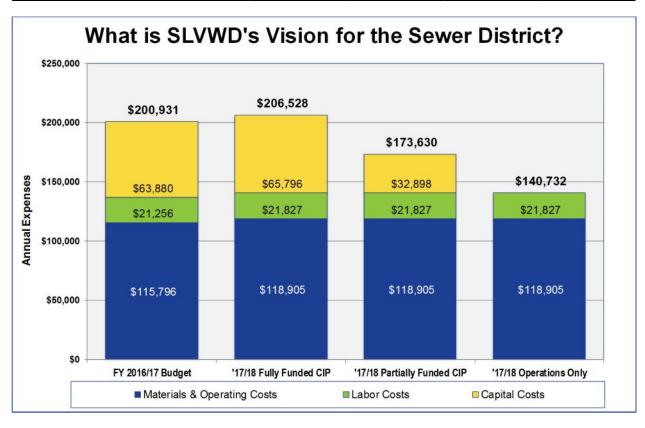




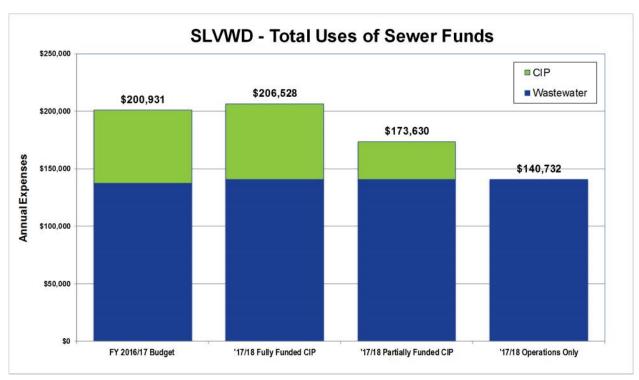


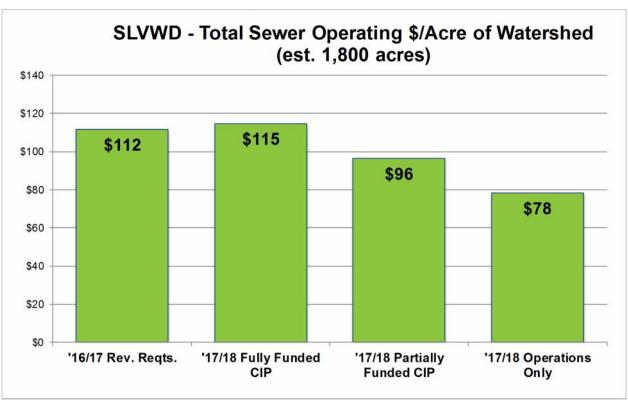
SEWER UTILITY FIGURES

Summary of District Costs	'16/17 Rev. Reqts.	'17/18 Fully Funded CIP	'17/18 Partially Funded CIP	'17/18 Operations Only
Uses of Sewer Funds				
Water Fund Operating Expenses:				
Personnel	21,256	21,827	21,827	21,827
Materials & Services	115,796	118,905	118,905	118,905
Debt Service	-	-	-	-
Capital Expenses	63,880	65,796	32,898	-
Total Use of Funds	\$ 200,931	\$ 206,528	\$ 173,630	
Add'l. Revenue Needed	0%	9%	5%	0%











APPENDIX B - DETAILED WATER COST-OF-SERVICE TABLES & FIGURES

Appendix B is included under separate cover.



TABLE 1 FINANCIAL PLAN AND SUMMARY OF WATER COST REQUIREMENTS

WATER COST REQUIREMENTS CHAMARY		Budget								Projected								
WATER COST REQUIREMENTS SUMMARY	- 1	FY 2015/16	F	Y 2016/17	FY 2017/18		FY 2018/19	FY 2019/20	ı	FY 2020/21	ı	FY 2021/22	F	Y 2022/23	F	Y 2023/24	ı	FY 2024/25
Sources of Funds																		
Water Rate Revenue: (1)																		
Service & Usage Fees	\$	5,237,534	\$	5,237,534	\$ 5,237,534	\$	5,237,534	\$ 5,237,534	\$	5,237,534	\$	5,237,534	\$	5,237,534	\$	5,237,534	\$	5,237,534
Water Non-Rate Revenue: (2)																		
7501 Property Taxes	\$	762,752	\$	527,308	\$ 527,308	\$	527,308	\$ 527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308
7502 Rental Revenue		29,713		29,713	29,713		29,713	29,713		29,713		29,713		29,713		29,713		29,713
7503 Investment Earnings		(1,909)		-	-		-	-		-		-		-		-		-
7504 Gain/Loss on Sale of Assets		34,499		-	-		-	-		-		-		-		-		-
7505 Other Income		286,525		66,372	66,372		66,372	66,372		66,372		66,372		66,372		66,372		66,372
Interest Income	1	7,699			 -			 		_		-				_		-
Grand Total: Sources of Funds	\$	6,356,813	\$	5,860,926	\$ 5,860,926	\$	5,860,926	\$ 5,860,926	\$	5,860,926	\$	5,860,926	\$	5,860,926	\$	5,860,926	\$	5,860,926
Uses of Funds																		
Water Fund Operating Expenses (3):																		
Administration	\$	720,331	\$	739,440	\$ 759,041	\$	778,938	\$ 799,426	\$	820,505	\$	842,175	\$	864,535	\$	887,387	\$	911,027
Finance		674,045		792,100	913,200		1,137,500	1,268,000		1,302,100		1,337,000		1,372,800		1,409,600		1,447,300
Engineering		176,175		280,700	287,900		295,400	303,100		310,900		318,900		327,100		335,400		344,000
Operations/Distribution		1,878,850		2,029,400	2,183,600		2,242,100	2,302,200		2,363,600		2,426,700		2,491,600		2,558,200		2,626,300
Watershed		499,235		512,400	526,100		539,900	554,200		568,800		583,800		599,300		615,200		631,600
Operations/Supply & Treatment		1,767,650		1,915,000	2,065,900		2,121,000	2,177,600		2,235,400		2,294,900		2,356,200		2,418,800		2,483,000
Subtotal: Operating Expenditures	\$	5,716,286	\$	6,269,040	\$ 6,735,741	\$	7,114,838	\$ 7,404,526	\$	7,601,305	\$	7,803,475	\$	8,011,535	\$	8,224,587	\$	8,443,227
Other Expenditures:																		
Existing Debt Service	\$	896,508	\$	896,508	\$ 896,508	\$	896,508	\$ 795,095	\$	693,682	\$	291,596	\$	186,797	\$	186,797	\$	186,797
New Debt Service		-		-	-		-	-		-		-		-		-		-
Rate-Funded Capital Expenses	1_	2,397,525	l_	3,100,000	2,583,059	l_	2,660,550	2,740,367	l_	2,822,578	l_	2,907,255	_	2,994,473		3,084,307	l_	3,176,836
Subtotal: Other Expenditures	\$	3,294,033	\$	3,996,508	\$ 3,479,566	\$	3,557,058	\$ 3,535,462	\$	3,516,260	\$	3,198,851	\$	3,181,270	\$	3,271,104	\$	3,363,634
Grand Total: Uses of Funds	\$	9,010,318	\$	10,265,547	\$ 10,215,307	\$	10,671,896	\$ 10,939,988	\$	11,117,565	\$	11,002,326	\$	11,192,805		11,495,691	\$	11,806,860
Annual Surplus/(Deficit)	\$	(2,653,505)	\$	(4,404,621)	\$ (4,354,381)	\$	(4,810,970)	\$ (5,079,062)	\$	(5,256,639)	\$	(5,141,400)	\$	(5,331,878)	\$	(5,634,765)	\$	(5,945,934)
Water Net Cost Reqt. (Total Uses less Non-Rate Re-	v \$	7,898,738	\$	9,642,155	\$ 9,591,915	\$	10,048,504	\$ 10,316,595	\$	10,494,173	\$	10,378,934	\$	10,569,412	\$	10,872,298	\$	11,183,468

^{1.} Revenues are from the Final Trial Balance on June 30, 2015 from source file: SLVWD 2015 Working TB.xls and are actual revenues from FY 14/15.

OLY Assessment (Property Tax) Revenue expected to cease after FY 2015/16.
 Expenses are from the FY 2015/16 Budget and from source file: FY1516 BUDGET FINAL.pdf. All projected expenses are rounded to the nearest \$100.

TABLE 2 RESERVE FUND SUMMARY

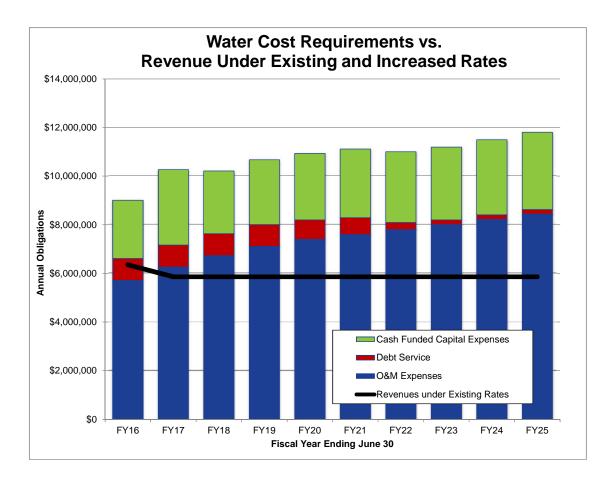
SUMMARY OF CASH ACTIVITY		Budget								Projected						
UN-RESTRICTED RESERVES - WATER	F	FY 2015/16	FY 2016/17	F	Y 2017/18	FY 2018/19		FY 2019/20	F	FY 2020/21	F	FY 2021/22	FY 2022/23	FY 2023/24	F	Y 2024/25
Total Beginning Cash (1)	\$	2,595,259														
Operational Reserve Fund																
Beginning Reserve Balance (2)	\$	2,218,677	\$ (430,534)	\$	(4,833,859)	\$ (9,186,372)	\$	(13,994,540)	\$	(19,069,865)	\$	(24,321,834)	\$ (29,457,630)	\$ (34,782,971)	\$	(40,410,26
Plus: Net Cash Flow (After Rate Increases)		(2,653,505)	(4,404,621)		(4,354,381)	(4,810,970)		(5,079,062)		(5,256,639)		(5,141,400)	(5,331,878)	(5,634,765)		(5,945,93
Plus: Transfer in from Debt Reserve Surpluses		4,294	1,296		1,868	2,802		3,736		4,670		5,604	6,538	7,472		7,47
Plus: Transfer in from Capital Replacement Reserve	:	-	-		-	-		-		-		-	-	-		
Less: Transfer out to Capital Replacement Reserve		-	-		-	-		-		-		-	-	-		
Ending Operating Reserve Balance	\$	(430,534)	\$ (4,833,859)	\$	(9,186,372)	\$ (13,994,540)	\$	(19,069,865)	\$	(24,321,834)	\$	(29,457,630)	\$ (34,782,971)	\$ (40,410,264)	\$	(46,348,72
Target Ending Balance (\$1.5M, then graduating to 6 m	\$	1,500,000	\$ 1,500,000	\$	1,684,000	\$ 1,779,000	\$	1,851,000	\$	1,900,000	\$	1,951,000	\$ 2,671,000	\$ 2,742,000	\$	4,222,00
Capital Reserve Fund																
Beginning Reserve Balance	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	\$	
Plus: Grant Proceeds		1,270,475	-		-	-		-		-		-	-	-		
Plus: Transfer of Operating Reserve Surplus		-	-		-	-		-		-		-	-	-		
Plus: Interest Earnings		-	-		-	-		-		-		-	-	-		
Less: Use of Reserves for Capital Projects		(1,270,475)	-		-	-		-		-		-	-	-		
Less: Use of Reserves for Operating Reserve		-	-		-	-		-		-		-	-	-		
Ending Capital Replacement Reserve Balance	\$	-	\$ -	\$	-	\$ -	\$	-	\$		\$	-	\$ -	\$	\$	
Capital Replacement Reserve (\$2M or 3% of Net Asse	\$	2,000,000	\$ 2,000,000	\$	2,000,000	\$	\$		\$		\$	2,000,000	\$	\$ 2,000,000	\$	2,000,000
Ending Balance - Excl. Restricted Reserves	\$	(430,534)	\$ (4,833,859)	\$	(9,186,372)	\$ (13,994,540)	\$	(19,069,865)	\$	(24,321,834)	\$	(29,457,630)	\$ (34,782,971)	\$ (40,410,264)	\$	(46,348,726
Min. Target Ending Balance - Excl. Restricted Reserves	\$	3,500,000	\$ 3,500,000	\$	3,684,000	\$ 3,779,000	\$	3,851,000	\$	3,900,000	\$	3,951,000	\$ 4,671,000	\$ 4,742,000	\$	6,222,000
Ending Surplus/(Deficit) Compared to Reserve Tar	\$	(3,930,534)	\$ (8,333,859)	\$	(12,870,372)	\$ (17,773,540)	44	(22,920,865)	\$	(28,221,834)	\$	(33,408,630)	\$ (39,453,971)	\$ (45,152,264)	\$	(52,570,72
Restricted Reserves:																
Debt Service Reserve Fund																
Beginning Reserve Balance (3)	\$	376,582	\$ 373,594	\$	373,594	\$ 373,594	\$	373,594	\$	373,594	\$	373,594	\$ 373,594	\$ 373,594	\$	373,594
Plus: Reserve Funding from New Debt Obligations		-	-		-	-		-		-		-	-	-		
Plus: Interest Earnings		1,307	1,296		1,868	2,802		3,736		4,670		5,604	6,538	7,472		7,472
Less: Transfer of Surplus to Operating Reserve		(4,294)	(1,296)		(1,868)	(2,802)		(3,736)		(4,670)		(5,604)	(6,538)	(7,472)		(7,472
Ending Debt Reserve Balance	\$	373,594	\$ 373,594	\$	373,594	\$ 373,594	44	373,594	\$	373,594	\$	373,594	\$ 373,594	\$ 373,594	\$	373,594
Target Ending Balance	\$	373,594	\$ 373,594	\$	373,594	\$ 373,594	\$	373,594	\$	373,594	\$	373,594	\$ 373,594	\$ 373,594	\$	373,59
Bond Project Fund																
Beginning Reserve Balance (3)	\$	-	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$ -	\$	
Plus: SRF Loan Funding Proceeds		-	-		-	-		-		-		-	-	-		
Plus: Revenue Bond Proceeds		-	-		-	-		-		-		-	-	-		
Less: Use of Bond & Loan Funds for Capital Projects	3					-				-		-		-		
Ending Bond Project Fund Balance	\$	-	\$ -	\$	-	\$	\$	-	\$	-	\$	-	\$ -	\$ -	\$	
Target Ending Balance	\$	-	\$	\$	-	\$	\$		\$		\$	-	\$	\$ -	\$	
Annual Interest Earnings Rate (4)		0.35%	0.35%		0.50%	0.75%		1.00%		1.25%		1.50%	1.75%	2.00%		2.00

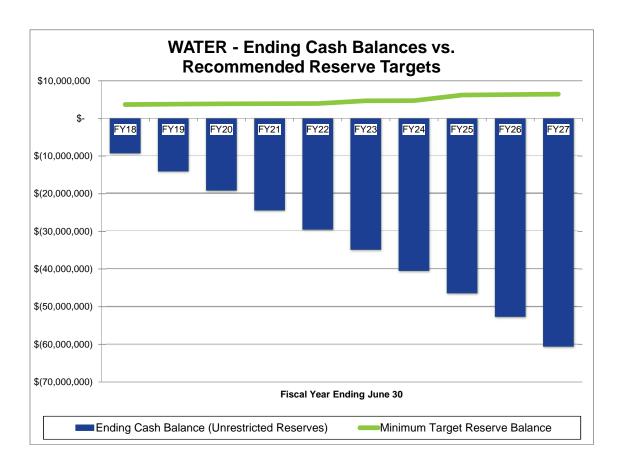
^{1.} The beginning Cash balance is from June 2016 Liquid Assets report.

^{2.} Operating Reserve is comprised of Cash and SC County Fund for SLV.

^{3.} Debt Reserve Fund is comprised of the Liberty Savings, Morgan Stanley accounts, SC County Fund - Lompico, and LAIF funds.

^{4.} Historical interest earning rates were referenced on the CA Treasurer's Office website for funds invested in LAIF. Future years earnings were conservatively estimated through 2024 and phase into the historical 10 year average interest earnings rate.





WATER REVENUE FORECAST:

DESCRIPTION (1)	Basis		2016		2017		2018		2019		2020		2021		2022	2023		2024		2025
WATER FUND REVENUES:																				
7101 Water Sales		ĺ																		
WATER SERVICE FEES	1	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
WATER USAGE FEES	1		-		-		-		-		-		-		-	-		-		-
BASIC SERVICE FEES	1		780,938		2,780,938		2,780,938		2,780,938		2,780,938		2,780,938		2,780,938	2,780,938		2,780,938	:	2,780,938
WATER USAGE FEES	1	2	456,596	_ 2	2,456,596	_ 2	2,456,596	:	2,456,596	_:	2,456,596	:	2,456,596		2,456,596	 2,456,596	:	2,456,596		2,456,596
Subtotal		\$ 5,	237,534	\$ 5	,237,534	\$ 5	,237,534	\$	5,237,534	\$	5,237,534	\$	5,237,534	\$	5,237,534	\$ 5,237,534	\$	5,237,534	\$:	5,237,534
7501 Property Taxes																				
PROPERTY TAXES	1	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$ 527,308	\$	527,308	\$	527,308
OLY ASSESSMENT REVENUE	1		235,444		-		-		-		-		-		-	 		-		-
Subtotal		\$	762,752	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$	527,308	\$ 527,308	\$	527,308	\$	527,308
7502 Rental Revenue																				
MOBILE SERVICES LEASE FEES	1	\$	15,713	\$	15,713	\$	15,713	\$	15,713	\$	15,713	\$	15,713	\$	15,713	\$ 15,713	\$	15,713	\$	15,713
JOHNSON PROPERTY RENTS	1		14,000		14,000		14,000		14,000		14,000		14,000		14,000	14,000		14,000		14,000
Subtotal		\$	29,713	\$	29,713	\$	29,713	\$	29,713	\$	29,713	\$	29,713	\$	29,713	\$ 29,713	\$	29,713	\$	29,713
7503 Investment Earnings																				
LOMPICO LOAN - INTEREST	1	\$	1,222	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
INTEREST - WATER	1		2,284		-		-		-				-		-	-		-		-
INTEREST - FELTON LOAN RESERVE	1		-		-		-		-		-		-		-	-		-		-
REALIZED G/L - MSDW	1	((119,479)		-		-		-				-		-	-		-		-
UNREALIZED GAINS/LOSS - MSDW	1		77,997		-		-		-		-		-		-	-		-		-
INTEREST DIVIDEND - MSDW	1		36,068		-		-		-		-				-					
Subtotal		\$	(1,909)	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
7504 Gain/Loss on Sale of Assets																				
SALE OF SURPLUS PROPERTY	1	\$	34,499	\$	-	\$	-	\$	-	\$		\$	-	\$	-	\$ -	\$	-	\$	-
LOSS ON SALE/ABAND FIXED ASSET	1		-		-		-		-		-				-	 		-	l	-
Subtotal		\$	34,499	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-
7505 Other Income																				
ACCT. ESTAB. CHARGES & PENALTY	1	\$	99,066	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$ 50,000	\$	50,000	\$	50,000
ASSESSMENT BOND - N.B.C.	1		-		-		-		-		-		-		-	-		-		-
SALE OF METERS	1		25,830		-		-		-		-		-		-	-		-		-
MISCELLANEOUS	1		9,803		9,803		9,803		9,803		9,803		9,803		9,803	9,803		9,803		9,803
REIMB. FOR MANANA WOODS	1		145,257		-		-		-		-		-		-	-		-		-
LOMPICO LOAN - PRINCIPAL	1		-		-		-		-		-		-		-	-		-		-
CSI - #34053 MANANA WOODS	1		237		237		237		237		237		237		237	237		237		237
CSI - # 34057 LYON WTP	1		1,148		1,148		1,148		1,148		1,148		1,148		1,148	1,148		1,148		1,148
CSI - #34058 KIRBY WTP	1		5,184		5,184		5,184		5,184		5,184		5,184	l	5,184	 5,184		5,184		5,184
Subtotal		\$	286,525	\$	66,372	\$	66,372	\$	66,372	\$	66,372	\$	66,372	\$	66,372	\$ 66,372	\$	66,372	\$	66,372
GRAND TOTAL: REVENUE		\$ 6	349,114	\$ 5	,860,926	\$ 5	,860,926	\$	5,860,926	\$	5,860,926	\$	5,860,926	\$	5,860,926	\$ 5,860,926	\$	5,860,926	\$:	5,860,926

WATER REVENUE SUMMARY:

WATER REVENUES:										
RATE REVENUE:										
7101 Water Sales	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534	\$ 5,237,534
OTHER REVENUE:										
7501 Property Taxes	\$ 762,752	\$ 527,308	\$ 527,308	\$ 527,308	\$ 527,308	\$ 527,308	\$ 527,308	\$ 527,308	\$ 527,308	\$ 527,308
7502 Rental Revenue	29,713	29,713	29,713	29,713	29,713	29,713	29,713	29,713	29,713	29,713
7503 Investment Earnings	(1,909)	-	-	-	-	-	-	-	-	-
7504 Gain/Loss on Sale of Assets	34,499	-	-	-	-	-	-	-	-	-
7505 Other Income	286,525	66,372	66,372	66,372	66,372	66,372	66,372	66,372	66,372	66,372
GRAND TOTAL: REVENUE	\$ 6,349,114	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926	\$ 5,860,926

DEPARTMENT: ADMINISTRATION - 01	Basis		2016		2017	2	2018		2019		2020		2021		2022		2023		2024		2025
PERSONNEL																					
Salaries																					
REGULAR SALARIES	3	\$	223,000	\$	229,000	\$ 2	235,100	\$	241,400	\$	247,900	\$	254,600	\$	261,400	\$	268,400	\$	275,600	\$	283,000
DIRECTORS FEES	3		23,000		23,600		24,200		24,800		25,500		26,200		26,900		27,600		28,300		29,100
Subtotal		\$	246,000	\$	252,600	\$ 2	259,300	\$	266,200	\$	273,400	\$	280,800	\$	288,300	\$	296,000	\$	303,900	\$	312,100
Benefits				-	,		,		,		,		,						,		
MEDICAL INSURANCE	3	\$	40,500	\$	41,600	\$	42,700	\$	43,800	\$	45,000	\$	46,200	\$	47,400	\$	48,700	\$	50,000	\$	51,300
DENTAL INSURANCE	3		2,900		3,000		3,100		3,200		3,300		3,400		3,500		3,600		3,700		3,800
VISION INSURANCE	3		450		500		500		500		500		500		500		500		500		500
LIFE INSURANCE	3		400		400		400		400		400		400		400		400		400		400
LONG TERM DISABILITY	3		1,150		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200
PERS - RETIREMENT	3		24,700		25,400		26,100		26,800		27,500		28,200		29,000		29,800		30,600		31,400
FICA - SOCIAL SECURITY	3		11,000		11,300		11,600		11,900		12,200		12,500		12,800		13,100		13,500		13,900
WORKERS COMPENSATION	3		1,100		1,100		1,100		1,100		1,100		1,100		1,100		1,100		1,100		1,100
ASSISTANCE PROGRAM	3		100		100		100		100		100		100		100		100		100		100
OTHER PAYROLL CHARGES	3		2,000		2,100		2,200		2,300		2,400		2,500		2,600		2,700		2,800		2,900
MEDICARE RETIRED MEDICAL	3		3,250		3,300		3,400		3,500		3,600		3,700		3,800		3,900		4,000		4,100
RETIRED MEDICAL	3		13,000		13,300		13,700		14,100		14,500		14,900		15,300		15,700		16,100		16,500
ANNUAL OPEB	3		35,000		35,900		36,900	_	37,900	_	38,900	_	39,900	_	41,000	_	42,100	_	43,200	_	44,400
Subtotal		\$	135,550	\$	139,200		143,000	\$	146,800	\$,	\$	154,600	\$	158,700	\$	162,900	\$		\$	
TOTAL: PERSONNEL		\$	381,550	\$	391,800	\$ 4	402,300	\$	413,000	\$	424,100	\$	435,400	\$	447,000	\$	458,900	\$	471,100	\$	483,700
MATERIALS & SERVICES	•	•	440.550	Φ.	445 500	e 4	140.000	Φ.	404 700	•	404.000	•	400.000	Φ.	404 000	φ.	405 400	•	400 700	•	440.400
CONTRACT/PROFESSIONAL SERVICES LEGAL SERVICES	2	\$	112,550	\$	115,500	\$ 1	118,600	\$	121,700	\$		\$	128,200	\$	- ,	\$		\$,	\$,
UTILITIES DISTRICT OFFICE	2		60,000 12,000		61,600 12,300		63,200 12,600		64,900 12,900		66,600 13,200		68,400 13,500		70,200 13,900		72,100 14,300		74,000 14,700		76,000 15,100
AUTO ALLOWANCE	2		4,200		4,300		4,400		4.500		4.600		4.700		4,800		4,900		5.000		5,100
RENTALS/LEASES/PERMITS	2		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1,000
FACILITIES MAINTENANCE	2		12,000		12,300		12,600		12,900		13,200		13,500		13,900		14,300		14.700		15,100
TELEPHONE/COMMUNICATIONS	2		18,000		18,500		19,000		19,500		20,000		20,500		21,000		21,600		22,200		22,800
OFFICE SUPPLIES (includes 5078)	2		10,000		10,300		10,600		10,900		11,200		11,500		11,800		12,100		12,400		12,700
POSTAGE	2		500		500		500		500		500		500		500		500		500		500
SUBSCRIPTIONS/BOOKS	2		500		500		500		500		500		500		500		500		500		500
ADVERTISING	2		4,000		4,100		4,200		4,300		4,400		4.500		4,600		4.700		4.800		4.900
TRAINING, CONFERENCES & MEETINGS	2		5,000		5,100		5,200		5,300		5,400		5,500		5,600		5,700		5,900		6.100
MEMBERSHIPS & DUES (includes 5085)	2		33,000		33,900		34,800		35,700		36,600		37,600		38,600		39,600		40,600		41,700
INSURANCE - PROPERTY (SDRMA)	2		77,000		79,000		81,100		83,200		85,400		87,700		90,000		92,400		94,800		97,300
LEGAL SETTLEMENTS	2		-		-		-		-		-		-		-		-		-		-
ELECTION FEES	2		-		-		-		-		-		-		-		-		-		-
Subtotal		\$	349,750	\$	358,900	\$ 3	368,300	\$	377,800	\$	387,500	\$	397,600	\$	408,000	\$	418,800	\$	429,800	\$	441,200
TOTAL: MATERIALS & SERVICES			349,750	\$	358,900		368,300	\$	377,800	\$		\$	397,600	\$		\$,	\$,	\$	
ADMINISTRATION OVERHEAD ALLOCATION TO SEWER (1.59)	6) (3)	ľ	(10,970)	'	(11,261)		(11,559)	ľ	(11,862)		(12,174)	٠	(12,495)	ľ	(12,825)	ľ	(13,166)		(13,514)		(13,874)
TOTAL: ADMINISTRATION	, , ,	\$	720,331	\$	739,440		759,041	\$	778,938	\$	799,426	\$	820,505	\$	842,175	\$	864,535	\$	887,387	\$	911,027

DEPARTMENT: FINANCE - 02	Basis		2016		2017	2	2018	2019	2020		2021		2022		2023		2024		2025
PERSONNEL																			
Salaries																			
REGULAR SALARIES	3	\$	365,000	\$	374,800	\$:	384,900	\$ 395,200	\$ 405,800	\$	416,700	\$	427,900	\$	439,400	\$	451,200	\$	463,300
TEMPORARY SALARIES	3	'	· ·		· -		· -	-	· -		· -		· -		· -		· -		· -
OVERTIME WAGES	3		500		500		500	 500	500		500		500		500		500		500
Subtota	ı	\$	365,500	\$	375,300	\$:	385,400	\$ 395,700	\$ 406,300	\$	417,200	\$	428,400	\$	439,900	\$	451,700	\$	463,800
Benefits				-			,	,	,		,		,		,		,		
MEDICAL INSURANCE	3	\$	55,700	\$	57,200	\$	58,700	\$ 60,300	\$ 61,900	\$	63,600	\$	65,300	\$	67,100	\$	68,900	\$	70,700
DENTAL INSURANCE	3		6,400	'	6,600		6,800	7,000	7,200		7,400		7,600		7,800		8,000		8,200
VISION INSURANCE	3		1,000		1,000		1,000	1,000	1,000		1,000		1,000		1,000		1,000		1,000
LIFE INSURANCE	3		1,000		1,000		1,000	1,000	1,000		1,000		1,000		1,000		1,000		1,000
LONG TERM DISABILITY	3		1,850		1,900		2,000	2,100	2,200		2,300		2,400		2,500		2,600		2,700
PERS - RETIREMENT	3		36,500		37,500		38,500	39,500	40,600		41,700		42,800		43,900		45,100		46,300
FICA - SOCIAL SECURITY	3		22,650		23,300		23,900	24,500	25,200		25,900		26,600		27,300		28,000		28,800
WORKERS COMPENSATION	3		1,700		1,700		1,700	1,700	1,700		1,700		1,700		1,700		1,700		1,700
ASSISTANCE PROGRAM	3		225		200		200	200	200		200		200		200		200		200
MEDICARE RETIRED MEDICAL	3		5,300		5,400		5,500	 5,600	5,800		6,000		6,200		6,400		6,600		6,800
Subtota	ı	\$	132,325	\$	135,800	\$	139,300	\$ 142,900	\$ 146,800	\$	150,800	\$	154,800	\$	158,900	\$	163,100	\$	167,400
Additional Positions (4)																			
Fully Loaded Cost of New Position #1	3	\$	-	\$	100,000	\$	102,700	\$ 105,500	\$ 108,300	\$	111,200	\$	114,200	\$	117,300	\$	120,400	\$	123,600
Fully Loaded Cost of New Position #2	3		-		-		100,000	\$ 102,700	\$ 105,500	\$	108,300	\$	111,200	\$	114,200	\$	117,300	\$	120,400
Fully Loaded Cost of New Position #3	3		-		-		-	100,000	\$ 102,700	\$	105,500	\$	108,300	\$	111,200	\$	114,200	\$	117,300
Fully Loaded Cost of New Position #4	3		-		-		-	100,000	\$ 102,700	\$	105,500	\$	108,300	\$	111,200	\$	114,200	\$	117,300
Fully Loaded Cost of New Position #5	3		-		-		-		100,000	_	102,700		105,500	_	108,300	_	111,200	_	114,200
Subtota	I	\$	-	\$	100,000	\$:	202,700	\$ 408,200	\$ 519,200	\$	533,200	\$	547,500	\$	562,200	\$	577,300	\$	592,800
TOTAL: PERSONNEL		\$	497,825	\$	611,100	\$	727,400	\$ 946,800	\$ 1,072,300	\$ '	1,101,200	\$ '	1,130,700	\$	1,161,000	\$	1,192,100	\$	1,224,000
MATERIALS & SERVICES																			
CONTRACT/PROFESSIONAL SERVICES	2	\$	60,220	\$	61,800	\$	63,400	\$ 65,100	\$,	\$	68,600	\$	70,400	\$	72,300	\$	74,200	\$	76,200
AUDIT SERVICES	2		25,000		25,700		26,400	27,100	27,800		28,500		29,300		30,100		30,900		31,700
OFFICE SUPPLIES (includes 5078)	2		12,000		12,300		12,600	12,900	13,200		13,500		13,900		14,300		14,700		15,100
POSTAGE	2		40,000		41,100		42,200	43,300	44,400		45,600		46,800		48,000		49,300		50,600
TRAINING, CONFERENCES & MEETINGS	2		3,000		3,100		3,200	3,300	3,400		3,500		3,600		3,700		3,800		3,900
COLLECTION COSTS/BANK FEES	2		30,000		30,800		31,600	32,400	33,300		34,200		35,100		36,000		37,000		38,000
BAD DEBTS	2	l	6,000	l	6,200		6,400	6,600	 6,800		7,000		7,200	_	7,400		7,600		7,800
Subtota	I	\$	176,220	\$	181,000		185,800	\$ 190,700	\$,	\$	200,900	\$	206,300	\$	211,800	\$,	\$,
TOTAL: MATERIALS & SERVICES		\$	176,220	\$	181,000	_	185,800	\$ 190,700	\$.00,.00	\$	200,900	\$	206,300	\$	211,800	\$	217,500	\$,
TOTAL: FINANCE		\$	674,045	\$	792,100	\$ 9	913,200	\$ 1,137,500	\$ 1,268,000	\$ '	1,302,100	\$	1,337,000	\$	1,372,800	\$	1,409,600	\$	1,447,300

DEPARTMENT: ENGINEERING - 03		Basis		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025
PERSONNEL																						
Salaries																						
REGULAR SALARIES		2	\$	103,550	\$	106,300	\$	109,100	\$	112,000	\$	115,000	\$	118,000	\$	121,100	\$	124,300	\$	127,600	\$	131,000
OVERTIME WAGES		2		-		-		_ '		-		-		-		-		-		-		-
	ubtotal		\$	103,550	\$	106,300	\$	109,100	\$	112,000	\$	115,000	\$	118,000	\$	121,100	\$	124,300	\$	127,600	\$	131,000
Benefits			1	,	*	,	•	,	1	,	*	,	•	,	*	,	*	,	•	,	•	,
MEDICAL INSURANCE		2	\$	16.000	\$	16,400	\$	16,800	\$	17,200	\$	17,700	\$	18,200	\$	18,700	\$	19,200	\$	19,700	\$	20,200
DENTAL INSURANCE		2		1,300	Ť	1,300		1,300		1,300	•	1,300	•	1,300	·	1,300	•	1,300	·	1.300	Ť	1,300
VISION INSURANCE		2		200		200		200		200		200		200		200		200		200		200
LIFE INSURANCE		2		200		200		200		200		200		200		200		200		200		200
LONG TERM DISABILITY		2		525		500		500		500		500		500		500		500		500		500
PERS - RETIREMENT		2		13,200		13,500		13,900		14,300		14,700		15,100		15,500		15,900		16,300		16,700
FICA - SOCIAL SECURITY		2		6,450		6,600		6,800		7,000		7,200		7,400		7,600		7,800		8,000		8,200
WORKERS COMPENSATION		2		500		500		500		500		500		500		500		500		500		500
ASSISTANCE PROGRAM		2		50		100		100		100		100		100		100		100		100		100
MEDICARE RETIRED MEDICAL		2		1,525		1,600		1,600		1,600		1,600		1,600		1,600		1,600		1,600		1,600
SPECIAL CLOTHING		2		675		700		700		700		700		700		700		700		700		700
ANNUAL OPEB		2		-		-		- '		-		-		-		-		-		-		-
	ubtotal		\$	40,625	\$	41,600	\$	42,600	\$	43,600	\$	44,700	\$	45,800	\$	46,900	\$	48,000	\$	49,100	\$	50,200
Additional Positions (4)				.,.	ľ	,	٠	,	•	,	,	,	•	-,		.,	'	-,		,	ľ	,
Fully Loaded Cost of New Position #6		3				100.000		102,700		105,500		108,300		111,200		114,200		117,300		120,400		123,600
1	ubtotal		\$	_	\$	100,000	\$,	\$	105,500	\$	108.300	\$	111,200	\$	114,200	\$	117,300	\$	120,400	\$,
TOTAL: PERSONNEL			\$	144,175	\$	247,900	\$	254,400	\$	261,100	\$	268,000	\$	275,000	\$	282,200	\$	289,600	\$	297,100	\$	
MATERIAL O A OFFINIOFO								ļ														
MATERIALS & SERVICES CONTRACT/PROFESSIONAL SERVICES		2	•	20.000	4	20 500	Φ	24.000	φ.	24 600	¢.	22 202	Φ	22.000	6	22.400	Φ.	24.000	\$	04.600	4	25 200
EQUIPMENT REPLACEMENT FUND		2	\$	20,000	\$	20,500	\$	21,000	\$	21,600	\$	22,200	\$	22,800	\$	23,400	\$	24,000	Ф	24,600	\$	25,300
MAINT/OPERATIONS OF VEHICLES		2		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1.000		1,000		1 000
SMALL TOOLS/MAINT & REPAIRS		2		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1,000		1,000 100
EQUIP. NON-CAP		2		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200
COMMUNICATIONS		2		750		800		800		800		800		800		800		800		800		800
OFFICE SUPPLIES		2		750 750		800		800		800		800		800		800		800		800		800
SUBSCRIPTIONS/BOOKS		2		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200		1,200
TRAINING, CONFERENCES & MEETINGS		2		1,000		1,200		1,000		1,000		1,200		1,000		1,000		1,200		1,200		1,000
,		2		6,000		6,200		6,400		6,600		6,800		7,000		7,200		7,400		7,600		7,800
MEMBERSHIPS & DUES	···béaéal	2	_		_		•		_		_		•		_		_		_		_	-
TOTAL: MATERIALS & SERVICES	Subtotal		\$	32,000	\$	32,800	\$ \$	33,500	\$	34,300	\$	35,100	\$ \$	35,900	\$	36,700	\$	37,500 37,500	\$	38,300	\$	39,200
TOTAL: MATERIALS & SERVICES TOTAL: ENGINEERING			\$	32,000	\$	32,800	_	33,500	4	34,300	\$	35,100		35,900	1	36,700	1	- ,	_	38,300	\$	39,200
IUIAL: ENGINEEKING			\$	176,175	\$	280,700	\$	287,900	\$	295,400	\$	303,100	\$	310,900	\$	318,900	\$	327,100	\$	335,400	\$	344,000

DEPARTMENT: OPERATIONS/DISTRIBUTION - 04	Basis	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
PERSONNEL											
Salaries											
REGULAR SALARIES	3	\$ 871,1	00 \$ 894,50	\$ 918,500	\$ 943,200	\$ 968,500	\$ 994,500	\$ 1,021,200	\$ 1,048,600	\$ 1,076,800	\$ 1,105,700
TEMPORARY SALARIES	3		-	- ` -	-	_	-	-	-		
OVERTIME WAGES	3	40,0	41,10	42,200	43,300	44,500	45,700	46,900	48,200	49,500	50,800
STANDBY WAGES	3	27,0	27,70	28,400	29,200	30,000	30,800	31,600	32,400	33,300	34,200
	ototal	\$ 938,1	_	-		\$ 1,043,000	\$ 1,071,000		\$ 1,129,200		
Benefits	iotai	Ψ 330,1	σ ψ 303,30	Ψ 303,100	Ψ 1,013,700	Ψ 1,043,000	Ψ 1,071,000	Ψ 1,033,700	Ψ 1,123,200	Ψ 1,133,000	Ψ 1,130,700
MEDICAL INSURANCE	3	\$ 183,0	00 \$ 187,90	\$ 192,900	\$ 198,100	\$ 203,400	\$ 208,900	\$ 214,500	\$ 220,300	\$ 226,200	\$ 232,300
DENTAL INSURANCE	3	19,2			20.700	21,300	21,900	22,500	23,100	23,700	24,300
VISION INSURANCE	3	2,8		- ,	3,100	3,200	3,300	3,400	3,500	3,600	3,700
LIFE INSURANCE	3	2,0		,		2,600	2,700		2,900	3,000	3,100
LONG TERM DISABILITY	3			,				2,800			
	-	4,5		,	4,800	4,900	5,000	5,100	5,200	5,300	5,400
PERS - RETIREMENT	3	103,5		,	112,100	115,100	118,200	121,400	124,700	128,000	131,400
FICA - SOCIAL SECURITY	3	57,5		,	- ,	63,900	65,600	67,400	69,200	71,100	73,000
WORKERS COMPENSATION	3	40,0				44,500	45,700	46,900	48,200	49,500	50,800
ASSISTANCE PROGRAM	3	_	50			500	500	500	500	500	500
MEDICARE RETIRED MEDICAL	3	13,6		,	14,800	15,200	15,600	16,000	16,400	16,800	17,300
SPECIAL CLOTHING	3	7,2		,	,	8,000	8,200	8,400	8,600	8,800	9,000
CERTIFICATIONS	3	-	80	_	800	800	800	800	800	800	800
Su	ototal	\$ 434,7	50 \$ 446,50	0 \$ 458,500	\$ 470,700	\$ 483,400	\$ 496,400	\$ 509,700	\$ 523,400	\$ 537,300	\$ 551,600
Additional Positions (4)											
Fully Loaded Cost of New Position #7	3	-	100,00	102,700	105,500	108,300	111,200	114,200	117,300	120,400	123,600
Fully Loaded Cost of New Position #8	3			100,000	102,700	105,500	108,300	111,200	114,200	117,300	120,400
Su	ototal	\$	- \$ 100,00	\$ 202,700	\$ 208,200	\$ 213,800	\$ 219,500	\$ 225,400	\$ 231,500	\$ 237,700	\$ 244,000
TOTAL: PERSONNEL		\$ 1,372,8	50 \$ 1,509,80	\$ 1,650,300	\$ 1,694,600	\$ 1,740,200	\$ 1,786,900	\$ 1,834,800	\$ 1,884,100	\$ 1,934,600	\$ 1,986,300
MATERIALS & SERVICES											
CONTRACT/PROFESSIONAL SERVICES	2	\$ 70,0	00 \$ 71,90	3,800	\$ 75,800	\$ 77,800	\$ 79,900	\$ 82,000	\$ 84,200	\$ 86,400	\$ 88,700
EQUIPMENT REPLACEMENT FUND	2		-		-	-	-	-	-	-	-
UTILITIES	2	110,0	112,90	115,900	119,000	122,200	125,400	128,700	132,100	135,600	139,200
OPERATING SUPPLIES	2	90,0	92,40	94,800	97,300	99,900	102,500	105,200	108,000	110,900	113,800
MAINT & OPERATIONS OF VEHICLES	2	75,0	77,00	79,000	81,100	83,200	85,400	87,700	90,000	92,400	94,800
RENTAL/LEASES/PERMITS	2	10,0	10,30	10,600	10.900	11,200	11,500	11,800	12,100	12,400	12,700
SMALL TOOLS-MAINT & REPAIRS	2	10,0		,	10,900	11,200	11,500	11,800	12,100	12,400	12,700
EQUIPMENT NON-CAP	2	7,5		,	8,100	8,300	8,500	8,700	8,900	9.100	9,300
FACILITIES MAINTENANCE	2	15,0		,	16,200	16,600	17,000	17,500	18,000	18,500	19,000
COMMUNICATIONS & TELEMETERING	2	56,0		,	60,600	62,200	63,800	65,500	67,200	69,000	70,800
OFFICE SUPPLIES (included 5078)	2	6,5		,		7,300	7,500	7,700	7,900	8,100	8,300
SUBSCRIPTIONS/BOOKS	2	0,0	-		.,100	.,500	.,500	.,,,,,	.,500	5,100	
TRAINING, CONFERENCES & MEETINGS	2	5,0	5,10	5,200	5,300	5,400	5,500	5,600	5,700	5,900	6,100
SPECIAL PROJECTS	2	51,0				56,700	58,200	59,700	61,300	62,900	64,600
	_						I			I	I
	ototal	\$ 506,0		,	, , , , , , , , , , , , , , , , , , , ,	\$ 562,000		. ,			\$ 640,000
TOTAL: MATERIALS & SERVICES		\$ 506,0				\$ 562,000	\$ 576,700		\$ 607,500		
TOTAL: OPERATIONS/DISTRIBUTION	1	\$ 1,8/8,8	50 \$ 2,029,40	J \$ 2,183,600	\$ 2,242,100	3 2,302,200	3 2,363,600	\$ 2,426,700	\$ 2,491,600	\$ 2,558,200	\$ 2,626,300

DEPARTMENT: WATERSHED - 05	Basis	1	2016		2017	2018	2019		2020	2021	2022		2023		2024	2025
PERSONNEL										-						
Salaries																
REGULAR SALARIES	3	\$	89,500	\$	91,900	\$ 94,400	\$ 96,900	\$	99,500	\$ 102,200	\$ 104,900	\$	107,700	\$	110,600	\$ 113,600
TEMPORARY SALARIES	3		-		-	-	-		-	-	-		-		-	-
Subtotal		\$	89,500	\$	91,900	\$ 94,400	\$ 96,900	\$	99,500	\$ 102,200	\$ 104,900	\$	107,700	\$	110,600	\$ 113,600
Benefits						·				•						
MEDICAL INSURANCE	3	\$	20,100	\$	20,600	\$ 21,200	\$ 21,800	\$	22,400	\$ 23,000	\$ 23,600	\$	24,200	\$	24,800	\$ 25,500
DENTAL INSURANCE	3		2,150		2,200	2,300	2,400		2,500	2,600	2,700		2,800		2,900	3,000
VISION INSURANCE	3		325		300	300	300		300	300	300		300		300	300
LIFE INSURANCE	3		60		100	100	100		100	100	100		100		100	100
LONG TERM DISABILITY	3		500		500	500	500		500	500	500		500		500	500
PERS - RETIREMENT	3		11,400		11,700	12,000	12,300		12,600	12,900	13,200		13,600		14,000	14,400
FICA - SOCIAL SECURITY	3		5,600		5,800	6,000	6,200		6,400	6,600	6,800		7,000		7,200	7,400
WORKERS COMPENSATION	3		425		400	400	400		400	400	400		400		400	400
ASSISTANCE PROGRAM	3		25		-	-	-		-	-	-		-		-	-
MEDICARE	3		1,300		1,300	1,300	1,300		1,300	1,300	1,300		1,300		1,300	1,300
SPECIAL CLOTHING	3				-	 -	 		-	 -	 -		-	_	-	 -
Subtotal		\$	41,885	\$	42,900	\$ 44,100	\$ 45,300	\$	46,500	\$ 47,700	\$ 48,900	\$	50,200	\$	51,500	\$ 52,900
TOTAL: PERSONNEL		\$	131,385	\$	134,800	\$ 138,500	\$ 142,200	\$	146,000	\$ 149,900	\$ 153,800	\$	157,900	\$	162,100	\$ 166,500
MATERIALS & SERVICES																
CONTRACT/PROFESSIONAL SERVICES	2	\$	80,000	\$	82,100	\$ 84,300	\$ 86,500	\$	88,800	\$ 91,200	\$ 93,600	\$	96,100	\$	98,600	\$ 101,200
ROAD MAINTENANCE	2		15,000		15,400	15,800	16,200		16,600	17,000	17,500		18,000		18,500	19,000
OPERATING SUPPLIES	2		500		500	500	500		500	500	500		500		500	500
COMMUNICATIONS & TELEMETERING	2		300		300	300	300		300	300	300		300		300	300
SUBSCRIPTIONS/BOOKS	2		300		300	300	300		300	300	300		300		300	300
TRAINING, CONFERENCES & MEETINGS	2		3,000		3,100	3,200	3,300		3,400	3,500	3,600		3,700		3,800	3,900
MEMBERSHIP & DUES	2		1,250		1,300	1,300	1,300		1,300	1,300	1,300		1,300		1,300	1,300
WATERSHED & DATA COLLECTION GRNTS	2		15,000		15,400	15,800	16,200		16,600	17,000	17,500		18,000		18,500	19,000
WATER CONSERVATION PROGRAM	2		65,000		66,700	68,500	70,300		72,200	74,100	76,100		78,100		80,200	82,300
EDUCATION GRANT PROGRAM	2		17,500		18,000	18,500	19,000		19,500	20,000	20,500		21,000		21,600	22,200
SPECIAL PROJECTS	2	l	170,000		174,500	 179,100	 183,800		188,700	 193,700	 198,800	l	204,100	_	209,500	 215,100
Subtotal		\$	367,850	\$	377,600	\$ 387,600	\$ 397,700	\$	408,200	\$ 418,900	\$ 430,000	\$	441,400	\$	453,100	\$ 465,100
TOTAL: MATERIALS & SERVICES		\$	367,850	\$	377,600	\$ 387,600	\$ 397,700	\$	408,200	\$ 418,900	\$ 430,000	\$	441,400	\$	453,100	\$ 465,100
TOTAL: WATERSHED		\$	499,235	\$	512,400	\$ 526,100	\$ 539,900	\$	554,200	\$ 568,800	\$ 583,800	\$	599,300	\$	615,200	\$ 631,600

DEPARTMENT: OPERATIONS/SUPPLY & TREATMENT -08	Basis	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
PERSONNEL	1										
Salaries											
REGULAR SALARIES	3	\$ 681,000	\$ 699,300	\$ 718,100	\$ 737,400	\$ 757,200	\$ 777,500	\$ 798,400	\$ 819,800	\$ 841,800	\$ 864,400
TEMPORARY SALARIES	3	-	-	-	-	-	-	-	_	· -	_
OVERTIME WAGES	3	37,000	38,000	39,000	40,000	41,100	42,200	43,300	44,500	45,700	46,900
STANDBY	3	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900
Subtota	1	\$ 722,000	\$ 741,400	\$ 761,300	\$ 781,700	\$ 802,700	\$ 824,200	\$ 846,300	\$ 869,000	\$ 892,300	\$ 916,200
Benefits		Ψ 122,000	Ψ 141,400	Ψ 701,000	Ψ 101,100	Ψ 002,700	Ψ 024,200	Ψ 040,000	Ψ 000,000	Ψ 002,000	Ψ 0.10,200
MEDICAL INSURANCE	3	\$ 99,000	\$ 101,700	\$ 104,400	\$ 107,200	\$ 110,100	\$ 113,100	\$ 116,100	\$ 119,200	\$ 122,400	\$ 125,700
DENTAL INSURANCE	3	9,900	10,200	10,500	10,800	11,100	11,400	11,700	12,000	12,300	12,600
VISION INSURANCE	3	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
LIFE INSURANCE	3	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
LONG TERM DISABILITY	3	3,500	3,600	3,700	3.800	3.900	4.000	4,100	4,200	4.300	4.400
PERS - RETIREMENT	3	88,800	91,200	93,600	96,100	98,700	101,400	104,100	106,900	109,800	112,700
FICA - SOCIAL SECURITY	3	44,300	45,500	46,700	48.000	49,300	50,600	52,000	53,400	54,800	56,300
WORKERS COMPENSATION	3	31,500	32,300	33,200	34,100	35,000	35,900	36,900	37,900	38,900	39,900
ASSISTANCE PROGRAM	3	350	400	400	400	400	400	400	400	400	400
MEDICARE RETIRED MEDICAL	3	10,500	10,800	11,100	11.400	11.700	12.000	12,300	12,600	12.900	13,200
SPECIAL CLOTHING	3	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,800	6,000	6,200
CERTIFICATIONS	3	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
	T										
Subtota	1	\$ 297,350	\$ 305,300	\$ 313,300	\$ 321,600	\$ 330,100	\$ 338,800	\$ 347,700	\$ 356,900	\$ 366,300	\$ 375,900
Additional Positions (4)	3		100 000	100 700	105 500	100 200	111 200	111 200	117 200	120 400	122 600
Fully Loaded Cost of New Position #9		-	100,000	102,700 100,000	105,500 102,700	108,300 105,500	111,200 108,300	114,200	117,300 114,200	120,400 117,300	123,600
Fully Loaded Cost of New Position #10	3							111,200	l — — —	I — — · — ·	120,400
Subtota	1	\$ -	\$ 100,000	\$ 202,700	\$ 208,200	\$ 213,800	\$ 219,500	\$ 225,400	\$ 231,500	\$ 237,700	\$ 244,000
TOTAL: PERSONNEL		\$ 1,019,350	\$ 1,146,700	\$ 1,277,300	\$ 1,311,500	\$ 1,346,600	\$ 1,382,500	\$ 1,419,400	\$ 1,457,400	\$ 1,496,300	\$ 1,536,100
MATERIAL C & CERVICES											
MATERIALS & SERVICES		\$ 100.000	\$ 102,700	\$ 105.400	\$ 108,200	¢ 444.400	r 444,000	¢ 447,000	\$ 120,100	\$ 123,300	\$ 126,600
CONTRACT/PROFESSIONAL SERVICES	2					\$ 111,100	\$ 114,000	\$ 117,000			
CONTRACT SERVICES MANANA WOODS	2 2	20,000	20,500	21,000	21,600	22,200	22,800	23,400	24,000	24,600	25,300
OUTSIDE WATER ANALYSIS LAB SUPPLIES		64,000	65,700	67,400	69,200	71,000	72,900	74,800	76,800	78,800	80,900
EQUIPMENT REPLACEMENT	2 2	12,000	12,300	12,600	12,900	13,200	13,500	13,900	14,300	14,700	15,100
UTILITIES	2	285.000	292.600	300.400	200 400	240,000	205.000	-	342.400	254 500	200 000
CHEMICALS	2	,	- ,	35,800	308,400	316,600 37,700	325,000	333,600	40,800	351,500 41,900	360,800
OPERATING SUPPLIES		34,000	34,900	,	36,700		38,700	39,700	,	,	43,000
MAINTENANANCE/OPERATIONS OF VEHICLES	2 2	45,000 22,000	46,200	47,400 23,200	48,700 23,800	50,000	51,300 25,000	52,700	54,100	55,500 27,100	57,000 27,800
RENTAL/LEASES/PERMITS	2	105,000	22,600 107,800	110,700	113,600	24,400 116,600	119,700	25,700 122,900	26,400 126,200	129,500	132,900
SMALL TOOLS-MAINTENANCE & REPAIRS	2	3.500	3.600	3.700	3.800	3.900	4.000	4.100	4.200	4.300	4.400
EQUIPMENT NON-CAP	2	7,000	7,200	7,400	7,600	7,800	8,000	8,200	4,200 8,400	8,600	8,800
FACILITIES MAINTENANCE	2	7,500		,	,	8.300	8,500	,	,	9.100	9,300
COMMUNICATIONS & TELEMETERING	2	34,000	7,700	7,900 35,800	8,100 36,700	37,700	38,700	8,700 39,700	8,900 40,800	41,900	43,000
	2		34,900	,	,		,	,	,		,
OFFICE SUPPLIES (included 5078) SUBSCRIPTIONS/BOOKS	2	5,800 500	6,000 500	6,200 500	6,400 500	6,600 500	6,800 500	7,000 500	7,200 500	7,400 500	7,600 500
TRAINING, CONFERENCES & MEETINGS	2	3.000	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900
·		3,000	3,100	3,200	3,300	3,400	3,300	3,000	3,700	3,600	3,900
OTHER HOUSEHOLD SUPPLIES	2					l 		<u> </u>			1
Subtota	1	\$ 748,300	\$ 768,300	\$ 788,600	\$ 809,500	\$ 831,000	\$ 852,900	\$ 875,500	\$ 898,800	\$ 922,500	\$ 946,900
TOTAL: MATERIALS & SERVICES	 	\$ 748,300	\$ 768,300	\$ 788,600	\$ 809,500	\$ 831,000	\$ 852,900	\$ 875,500	\$ 898,800	\$ 922,500	\$ 946,900
TOTAL: OPERATIONS/SUPPLY & TREATMENT		\$ 1,767,650	\$ 1,915,000	\$ 2,065,900	\$ 2,121,000	\$ 2,177,600	\$ 2,235,400	\$ 2,294,900	\$ 2,356,200	\$ 2,418,800	\$ 2,483,000
GRAND TOTAL: WATER FUND OPERATING EXPENSES		\$ 5,716,286	\$ 6,269,040	\$ 6,735,741	\$ 7,114,838	\$ 7,404,526	\$ 7,601,305	\$ 7,803,475	\$ 8,011,535	\$ 8,224,587	\$ 8,443,227

NON-CASH ITEMS, EXCLUDED FROM ABOVE:

DESCRIPTION	Basis	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
DEPRECIATION											
DEPRECIATION TRANSPORTATION	1	\$ 880	900	900	900	900	900	900	900	900	900
DEPRECIATION	1	\$ 1,084,474	1,084,500	1,084,500	1,084,500	1,084,500	1,084,500	1,084,500	1,084,500	1,084,500	1,084,500
DEPRECIATION-PUMPING	1	\$ 11,430	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400	11,400
DEPRECIATION-MAINTENANCE	1	\$ 554	600	600	600	600	600	600	600	600	600
DEPRECIATION EXPENSE (Bear Creek)	1	\$ 41,773	41,800	41,800	41,800	41,800	41,800	41,800	41,800	41,800	41,800
SUBTOTAL: DEPRECIATION		\$ 1,139,110	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200	\$ 1,139,200

FORECASTING ASSUMPTIONS, Shown for Reference Purposes Only

INFLATION FACTORS	Basis	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Customer Growth	1	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Cost Inflation (5)	2	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%
Labor Cost Inflation (6)	3	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%
Water Purchases	4	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Energy (7)	5	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%
Chemicals (8)	6	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Fuel	7	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
No Escalation	8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

- 1. Revenues are from the Final Trial Balance on June 30, 2015 from source file: SLVWD 2015 Working TB.xls and are actual revenues from FY 14/15.
- 2. Expenses are from the FY 2015/16 Budget and from source file: FY1516 BUDGET FINAL.pdf. All projected expenses are rounded to the nearest \$100.
- 3. 1.5 percent of Administration budget items are allocated to the sewer utility; per District staff, via email September 2016.
- 4. New Positions are recommendations found in the Staffing Study Report, prepared by DeLoach & Associates, Inc., August 2016.
- Expected Inflation factors based on expense type from 5 year average from Bureau of Labor Statistics Data. http://www.bls.gov/regions/west/news-release/consumerpriceindex_sanfrancisco.htm
- Labor cost inflation is based on the 5-year average annual change in the Quarterly Census of Employment and Wages (San Jose area, CA). http://www.bls.gov/regions/west/news-release/2016/employmentcostindex_sanjose_20161031.htm
- 7. Estimated energy cost inflation provided by a University of California Davis report:
 - The Future of Electricity Prices in California: Understanding Market Drivers and Forecasting Prices to 2040," by Johnathan Cook, Ph.D., page 31, Table 7.
- 8. Inflation factor recently used by other California water agencies (e.g., City of Sunnyvale, City of Eureka, Humboldt CSD).

CAPITAL FUNDING SUMMARY - WATER

CAPITAL FUNDING FORECAST - WATER		Budget								F	rojected								
Funding Sources:	F	Y 2015/16	F	Y 2016/17	F	FY 2017/18	F	Y 2018/19	FY 2019/20	F	Y 2020/21	F	Y 2021/22	F	Y 2022/23	F	Y 2023/24	F	Y 2024/25
Grants	\$	1,270,475	\$	-	\$	-	\$	-	\$ -	\$		\$	-	\$	-	\$	-	\$	-
Use of Capacity Fee Reserves		-		-		-		-	-		-		-		-		-		-
SRF Loan Funding		-		-		_		-	-		-		_		-		-		-
Use of New Revenue Bond Proceeds		-		-		_		-	-		-		_		-		-		-
Use of Capital Rehabilitation and Replacement Reserve		-		-		-		-	-		-		-		-		-		-
Rate Revenue		2,397,525		3,100,000		2,583,059		2,660,550	2,740,367		2,822,578		2,907,255		2,994,473		3,084,307		3,176,836
Total Sources of Capital Funds	\$	3,668,000	44	3,100,000	\$	2,583,059	\$	2,660,550	\$ 2,740,367	\$	2,822,578	\$	2,907,255	\$	2,994,473	\$	3,084,307	\$	3,176,836
Uses of Capital Funds:																			
Total Project Costs	\$	3,668,000	\$	3,100,000	\$	2,583,059	\$	2,660,550	\$ 2,740,367	\$	2,822,578	\$	2,907,255	\$	2,994,473	\$	3,084,307	\$	3,176,836
Capital Funding Surplus (Deficiency)	\$	-	44	-	\$	-	\$	-	\$ -	\$		\$	-	\$	-	\$	-	\$	-
SRF Loan Funding	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-
New Revenue Bond Proceeds	\$	-	\$	-	\$	-	\$	-	\$ -	\$		\$	-	\$		\$	-	\$	-

CAPITAL IMPROVEMENT PROGRAM - WATER

Water Capital Improvement Program Costs (in Current-Year Dollars) (1):

Project Description & ID	2016	20	17	2018	2019	2020	2021	2022	2023	2024	2025
Engineering: Other Capital Projects											
Interties 2, 3 & 4	\$ 2,855,000	\$	-	\$ -							
Fall Creek Fish Ladder Design	\$ 12,000	\$	-	\$ -							
Probation Tank Site Design	\$ 120,000	\$	-	\$ -							
Swim Tank Site Design	\$ 30,000	\$	-	\$ _	\$ -						
Swim Tank Site Construction	\$ 324,000	\$	-	\$ -							
Operations/Distribution: Water Meters & Registers											
5888-1736 Replacement Meters	\$ 35,000	\$	-	\$ -							
Operations/Distribution: Other Capital Projects											
5890-9901 Replacement Pumps & Motors	\$ 5,000	\$	-	\$ -							
5890-1202 Felton Heights Mutual Consolidation Project	\$ 30,000	\$	-	\$ -							
Operations/Supply & Treatment: Other Capital Projects											
5890-9906 Replacement Pumps & Motors	\$ 30,000	\$	-	\$ -							
SCADA Upgrade/Replacement Lyon	\$ 35,000	\$	-	\$ -							
Lyon WTP Control Upgrade	\$ 150,000	\$	-	\$ -							
Pasatiempo Well 6 Elect Upgrade	\$ 42,000	\$	-	\$ -							
	\$ -	\$	-	\$ -							
	\$ -	\$	-	\$ -							
Future Capital Expenditures											
Pipes	\$ -	\$	-	\$ 1,064,448							
Tanks (including 10% volume contingency)	\$ -	\$	-	\$ 554,400							
Pump Stations	\$ -	\$	-	\$ 620,000							
Wells	\$ -	\$	-	\$ 150,000							
Treatment	\$ -	\$	-	\$ -							
Diversions	\$ -	\$	-	\$ 37,500							
Admin/Operations Building	\$ -	\$	-	\$ 81,476							
Other	\$ -	\$ 3,1	00,000	\$ -							
Total: CIP Program Costs (Future-Year Dollars)	\$ 3,668,000	\$ 3.1	00.000	\$ 2,507,824	\$ 2.507.824						

Water Capital Improvement Program Costs (in Future-Year Dollars) (2):

Project Description	2016	201	17	2018	2019	2020	2021	2022	2023	2024	2025
Engineering: Other Capital Projects											
Interties 2, 3 & 4	\$ 2,855,000	\$	-	\$ -							
Fall Creek Fish Ladder Design	\$ 12,000	\$	-	\$ -							
Probation Tank Site Design	\$ 120,000	\$	-	\$ -							
Swim Tank Site Design	\$ 30,000	\$	-	\$ -							
Swim Tank Site Construction	\$ 324,000	\$	-	\$ -							
Operations/Distribution: Water Meters & Registers											
5888-1736 Replacement Meters	\$ 35,000	\$	-	\$ -							
Operations/Distribution: Other Capital Projects											
5890-9901 Replacement Pumps & Motors	\$ 5,000	\$	-	\$ -							
5890-1202 Felton Heights Mutual Consolidation Project	\$ 30,000	\$	-	\$ -							
Operations/Supply & Treatment: Other Capital Projects											
5890-9906 Replacement Pumps & Motors	\$ 30,000	\$	-	\$ -							
SCADA Upgrade/Replacement Lyon	\$ 35,000	\$	-	\$ -							
Lyon WTP Control Upgrade	\$ 150,000	\$	-	\$ -							
Pasatiempo Well 6 Elect Upgrade	\$ 42,000	\$	-	\$ -							
	\$ -	\$	-	\$ -							
	\$ -	\$	-	\$ -							
Future Capital Expenditures											
Pipes	\$ -	\$	-	\$ 1,096,381	\$ 1,129,273	\$ 1,163,151	\$ 1,198,046	\$ 1,233,987	\$ 1,271,007	\$ 1,309,137	\$ 1,348,411
Tanks (including 10% volume contingency)	\$ -	\$	-	\$ 571,032	\$ 588,163	\$ 605,808	\$ 623,982	\$ 642,702	\$ 661,983	\$ 681,842	\$ 702,297
Pump Stations	\$ -	\$	-	\$ 638,600	\$ 657,758	\$ 677,491	\$ 697,815	\$ 718,750	\$ 740,312	\$ 762,522	\$ 785,397
Wells	\$ -	\$	-	\$ 154,500	\$ 159,135	\$ 163,909	\$ 168,826	\$ 173,891	\$ 179,108	\$ 184,481	\$ 190,016
Treatment	\$ -	\$	-	\$ -							
Diversions	\$ -	\$	-	\$ 38,625	\$ 39,784	\$ 40,977	\$ 42,207	\$ 43,473	\$ 44,777	\$ 46,120	\$ 47,504
Admin/Operations Building	\$ -	\$	-	\$ 83,920	\$ 86,438	\$ 89,031	\$ 91,702	\$ 94,453	\$ 97,287	\$ 100,205	\$ 103,211
Other	\$ -	\$ 3,10	00,000	\$ -							
Total: CIP Program Costs (Future-Year Dollars)	\$ 3,668,000	\$ 3,10	00,000	\$ 2,583,059	\$ 2,660,550	\$ 2,740,367	\$ 2,822,578	\$ 2,907,255	\$ 2,994,473	\$ 3,084,307	\$ 3,176,836

FORECASTING ASSUMPTIONS:

Economic Variables	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Annual Construction Cost Inflation, Per Engineering News Record (2)	0.00%	0.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Construction Cost Multiplier from 2016	1.00	1.00	1.03	1.06	1.09	1.13	1.16	1.19	1.23	1.27

^{1.} Capital project costs were provided by City Staff in source file: VWHA_Capital_Asset_Cost_of_Service_9_02_16.pdf.

^{2.} For reference purposes, the annual Construction Cost Inflation percentage is the 10 year average change in the Construction Cost Index for 2005-2015 (3.0%). Source: Engineering News Record website (http://enr.construction.com).

EXISTING DEBT OBLIGATIONS - WATER		Budget									Pi	rojected								
Annual Repayment Schedules:	F	Y 2015/16	F	Y 2016/17	F	Y 2017/18	F'	2018/19	F	Y 2019/20	FY	2020/21	F۱	/ 2021/22	F۱	Y 2022/23	F١	2023/24	F'	Y 2024/25
2004 Refunding Water Revenue Bond, 2012 (1)																				
Principal Payment	\$	616,350	\$	632,479	\$	649,030	\$	666,015	\$	582,031	\$	494,531	\$	103,454	\$	-	\$	-	\$	-
Interest Payment		93,361		77,231		60,680		43,696		26,267		12,354		1,345						-
Subtotal: Annual Debt Service	\$	709,710	\$	709,710	\$	709,710	\$	709,710	\$	608,298	\$	506,885	\$	104,799	\$	-	\$	-	\$	-
Coverage Requirement (\$-Amnt above annual payment) (2)	\$	816,167	\$	816,167	\$	816,167	\$	816,167	\$	816,167	\$	816,167	\$	816,167	\$	-	\$	-	\$	-
Reserve Requirement (total fund balance) (2)	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
2008 Safe Drinking Water Loan (3)																				
Principal Payment	\$	139,174	\$	142,556	\$	146,026	\$	149,577	\$	153,215	\$	156,938	\$	160,758	\$	164,668	\$	168,673	\$	172,772
Interest Payment		47,623		44,242		40,771		37,220		33,582		29,859		26,039		22,129		18,124		14,025
Subtotal: Annual Debt Service	\$	186,797	\$	186,797	\$	186,797	\$	186,797	\$	186,797	\$	186,797	\$	186,797	\$	186,797	\$	186,797	\$	186,797
Coverage Requirement (\$-Amnt above annual payment) (4)	\$	205,477	\$	205,477	\$	205,477	\$	205,477	\$	205,477	\$	205,477	\$	205,477	\$	205,477	\$	205,477	\$	205,477
Reserve Requirement (total fund balance) (4)	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594	\$	373,594
SVWD-SLVWD Short Term Loan, 2015 (5)																				
Principal Payment	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Interest Payment				-		-								-				<u>-</u>		-
Subtotal: Annual Debt Service	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Coverage Requirement (\$-Amnt above annual payment)	\$	_	\$	-	\$	-	\$	-	\$	_	\$	-	\$	-	\$	-	\$	-	\$	-
Reserve Requirement (total fund balance)	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_

^{1.} Source file: 2012 Water Revenue Refunding Bond Payment Schedule.pdf was provided by staff.

Existing Annual Debt Obligations to be Satisfied by Water Rates:

Existing Annual Debt Service	\$ 896,508	\$ 896,508	\$ 896,508	\$ 896,508	\$ 795,095	\$	693,682	\$ 291,596	\$ 186,797	\$ 186,797	\$ 186,797
Existing Annual Coverage Requirement	\$ 1,021,644	\$ 1,021,644	\$ 1,021,644	\$ 1,021,644	\$ 1,021,644	\$ 1	1,021,644	\$ 1,021,644	\$ 205,477	\$ 205,477	\$ 205,477
Existing Debt Reserve Target	\$ 373,594	\$ 373,594	\$ 373,594	\$ 373,594	\$ 373,594	\$	373,594	\$ 373,594	\$ 373,594	\$ 373,594	\$ 373,594

^{2.} Coverage requirement is set to 115% of the maximum annual debt service; Source file: Revenue Refunding Bond Bank of Nevada.pdf, page 19, Section 5.13(a)(2). No reserve fund requirement for refunding bond; Source file: Revenue Refunding Bond Bank of Nevada.pdf, page 19, Section 5.13(a)(3).

^{3.} Source file: Felton WTP SDWBL Loan.pdf was provided by staff.

^{4.} Coverage requirement is set to 115% of the maximum annual debt service. Reserve requirement equal to two years of annual payments. Source file: Felton WTP SDWBL Loan.pdf; Article B-6.

^{5.} Source file: SVWD-SLVWD Loan Agreement.pdf was provided by staff.

FUTURE DEBT FINANCING ASSUMPTIONS:

Long-Term Debt Terms	State Revolving Fund Loan	Revenue Bonds
Issuance Cost	0.00%	2.00%
Annual Interest Cost (%)	3.00%	5.50%
Term	30	30
Debt Reserve Funded?	Yes	Yes
Coverage Requirement (% above annual pmt)	20%	25%

FUTURE DEBT OBLIGATIONS:

Annual Repayment Schedules	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SRF Loan Funding										
Principal Payment	\$ -	\$	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Payment			-							
Subtotal: Annual Debt Service	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Revenue Bonds										
Principal Payment	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest Payment			-							
Subtotal: Annual Debt Service	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total: Future Annual Debt Service	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total: Future Annual Coverage Requirement	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total: Future Debt Reserve Target	\$ -	\$ -	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

TOTAL DEBT SERVICE:

Annual Obligations	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Annual Debt Service	\$ 896,508	\$ 896,508	\$ 896,508	\$ 896,508	\$ 795,095	\$ 693,682	\$ 291,596	\$ 186,797	\$ 186,797	\$ 186,797
Annual Coverage Requirement	\$ 1,021,644	\$ 205,477	\$ 205,477	\$ 205,477						
Total Debt Reserve Target	\$ 373,594	\$ 373,594	\$ 373,594	\$ 373,594						

SAN LORENZO VALLEY WATER DISTRICT ENTERPRISE WIDE COST OF SERVICE FINANCIAL STUDY - WATER UTILITY Projected Water Rates Under Existing Rate Schedule

EXHIBIT 4

Current Water Rate Schedule:

Fixed Charges	Current Monthly
Standard Meters:	
5/8 inch	\$34.00
3/4 inch	\$34.00
1 inch	\$56.50
1 1/2 inch	\$114.00
2 inch	\$181.50
3 inch	\$341.00
4 inch	\$567.00
Surplus Water	\$114.00

Volumetric Charges (1)	Tier Thresholds	Current Rates Volumetric Charge
Tier 1	0 - 4 ccf	\$3.81
Tier 2	5 - 15 ccf	\$4.97
Tier 3	16 - 50 ccf	\$5.96
Tier 4	51+ ccf	\$6.61
Drought Surcharge	per CCF	\$1.00
Flat Rate	per CCF	\$4.64
Surplus Water	per CCF	\$10.00

^{1.} CCF = Hundred Cubic Feet or 748 gallons.

SAN LORENZO VALLEY WATER DISTRICT ENTERPRISE WIDE COST OF SERVICE FINANCIAL STUDY - WATER UTILITY Cost of Service Analysis

Classification of Expenses - Water											
Budget Categories	Total Revenue		Commodity		Capacity			Customer	Basis of Classification		
		equirements Y 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)
DEPARTMENT: ADMINISTRATION - 01		1 2017/10		(COM)		(OAI)		(OA)	(00111)	(OAI)	(OA)
PERSONNEL											
Salaries											
REGULAR SALARIES	\$	235,100	\$	94,040	\$	117,550	\$	23,510	40.0%	50.0%	10.0%
DIRECTORS FEES	\$	24,200	\$	9,680	\$	12,100	\$	2,420	40.0%	50.0%	10.0%
Subtotal	\$	259,300	\$	103,720	\$	129,650	\$	25,930	40.0%	50.0%	10.0%
Benefits	_		, T	,	,	,,,,,,	-	,,			
MEDICAL INSURANCE	\$	42,700	\$	17,080	\$	21,350	\$	4,270	40.0%	50.0%	10.0%
DENTAL INSURANCE	\$	3.100	\$	1,240	\$	1,550	\$	310	40.0%	50.0%	10.0%
VISION INSURANCE	\$	500	\$	200	\$	250	\$	50	40.0%	50.0%	10.0%
LIFE INSURANCE	\$	400	\$	160	\$	200	\$	40	40.0%	50.0%	10.0%
LONG TERM DISABILITY	\$	1,200	\$	480	\$	600	\$	120	40.0%	50.0%	10.0%
PERS - RETIREMENT	\$	26,100	\$	10,440	\$	13,050	\$	2,610	40.0%	50.0%	10.0%
FICA - SOCIAL SECURITY	\$	11,600	\$	4,640	\$	5,800	\$	1,160	40.0%	50.0%	10.0%
WORKERS COMPENSATION	\$	1,100	\$	4,640	\$	5,600	\$	1,160	40.0%	50.0%	10.0%
		,	\$	-				-			
ASSISTANCE PROGRAM	\$	100	-	40	\$	50	\$	10	40.0%	50.0%	10.0%
OTHER PAYROLL CHARGES	\$	2,200	\$	880	\$	1,100	\$	220	40.0%	50.0%	10.0%
MEDICARE RETIRED MEDICAL	\$	3,400	\$	1,360	\$	1,700	\$	340	40.0%	50.0%	10.0%
RETIRED MEDICAL	\$	13,700	\$	5,480	\$	6,850	\$	1,370	40.0%	50.0%	10.0%
ANNUAL OPEB	\$	36,900	\$	14,760	\$	18,450	\$	3,690	40.0%	50.0%	10.0%
Subtotal	\$	143,000	\$	57,200	\$	71,500	\$	14,300	40.0%	50.0%	10.0%
TOTAL: PERSONNEL	\$	402,300	\$	160,920	\$	201,150	\$	40,230	40.0%	50.0%	10.0%
MATERIALS & SERVICES	_		١.		١.						
CONTRACT/PROFESSIONAL SERVICES	\$	118,600	\$	59,300	\$	59,300	\$	-	50.0%	50.0%	0.0%
LEGAL SERVICES	\$	63,200	\$	31,600	\$	31,600	\$	-	50.0%	50.0%	0.0%
UTILITIES DISTRICT OFFICE	\$	12,600	\$	6,300	\$	6,300	\$	-	50.0%	50.0%	0.0%
AUTO ALLOWANCE	\$	4,400	\$	2,200	\$	2,200	\$	-	50.0%	50.0%	0.0%
RENTALS/LEASES/PERMITS	\$	1,000	\$	500	\$	500	\$	-	50.0%	50.0%	0.0%
FACILITIES MAINTENANCE	\$	12,600	\$	6,300	\$	6,300	\$	-	50.0%	50.0%	0.0%
TELEPHONE/COMMUNICATIONS	\$	19,000	\$	9,500	\$	9,500	\$	-	50.0%	50.0%	0.0%
OFFICE SUPPLIES (includes 5078)	\$	10,600	\$	5,300	\$	5,300	\$	-	50.0%	50.0%	0.0%
POSTAGE	\$	500	\$	250	\$	250	\$	-	50.0%	50.0%	0.0%
SUBSCRIPTIONS/BOOKS	\$	500	\$	250	\$	250	\$	-	50.0%	50.0%	0.0%
ADVERTISING	\$	4,200	\$	2,100	\$	2,100	\$	-	50.0%	50.0%	0.0%
TRAINING, CONFERENCES & MEETINGS	\$	5,200	\$	2,600	\$	2,600	\$	-	50.0%	50.0%	0.0%
MEMBERSHIPS & DUES (includes 5085)	\$	34,800	\$	17,400	\$	17,400	\$	-	50.0%	50.0%	0.0%
INSURANCE - PROPERTY (SDRMA)	\$	81,100	\$	40,550	\$	40,550	\$	-	50.0%	50.0%	0.0%
LEGAL SETTLEMENTS	\$	- ,	\$	-	\$	-	\$	-	50.0%	50.0%	0.0%
ELECTION FEES	\$	-	\$	-	\$	-	\$	-	50.0%	50.0%	0.0%
Subtotal	\$	368.300	\$	184.150	\$	184.150	\$	_	50.0%	50.0%	0.0%
ADMINISTRATION OVERHEAD ALLOCATION TO SEWER (1.5%	-	(11,559)		(5,780)	,	(5,780)		_	50.0%	50.0%	0.0%
TOTAL: MATERIALS & SERVICES	\$	356.741	\$	178.371	\$	178,371	\$	-	50.0%	50.0%	0.0%
TOTAL: ADMINISTRATION	\$	759,041	\$	339,291	\$	379,521	\$	40,230	44.7%	50.0%	5.3%

Classification of Expenses - Water												
Budget Categories		tal Revenue quirements	C	ommodity		Capacity		Customer	Basis of Classification			
Budget Categories		FY 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)	
DEPARTMENT: FINANCE - 02				(/		(3.2.)		(=,	(33)	(0.0)	(5.9	
PERSONNEL												
Salaries												
REGULAR SALARIES	\$	384,900	\$	-	\$	192,450	\$	192,450	0.0%	50.0%	50.0%	
TEMPORARY SALARIES	\$	-	\$	-	\$		\$	-	0.0%	50.0%	50.0%	
OVERTIME WAGES	\$	500	\$	-	\$	250	\$	250	0.0%	50.0%	50.0%	
Subtotal	\$	385,400	\$	-	\$	192,700	\$	192,700	0.0%	50.0%	50.0%	
Benefits	'	,			1	, , , , ,		, , , ,				
MEDICAL INSURANCE	\$	58,700	\$	_	\$	29,350	\$	29,350	0.0%	50.0%	50.0%	
DENTAL INSURANCE	Š	6.800	\$	_	\$	3,400	\$	3,400	0.0%	50.0%	50.0%	
VISION INSURANCE	\$	1,000	\$	-	\$	500	\$	500	0.0%	50.0%	50.0%	
LIFE INSURANCE	\$	1,000	\$	_	\$	500	\$	500	0.0%	50.0%	50.0%	
LONG TERM DISABILITY	\$	2,000	\$	_	\$	1,000	\$	1,000	0.0%	50.0%	50.0%	
PERS - RETIREMENT	\$	38,500	\$	_	\$	19,250	\$	19,250	0.0%	50.0%	50.0%	
FICA - SOCIAL SECURITY	Š	23,900	\$	_	\$	11,950	\$	11.950	0.0%	50.0%	50.0%	
WORKERS COMPENSATION	\$	1,700	\$	_	\$	850	\$	850	0.0%	50.0%	50.0%	
ASSISTANCE PROGRAM	\$	200	\$	_	\$	100	\$	100	0.0%	50.0%	50.0%	
MEDICARE RETIRED MEDICAL	Š	5,500	\$	_	\$	2.750	\$	2.750	0.0%	50.0%	50.0%	
Subtotal	\$	139,300	\$	_	\$	69,650	\$	69,650	0.0%	50.0%	50.0%	
Additional Positions (4)	Ψ	139,300	Ψ		Ψ	09,000	Ψ	09,000	0.078	30.078	30.078	
Fully Loaded Cost of New Position #1	\$	102,700	\$	_	\$	51,350	\$	51,350	0.0%	50.0%	50.0%	
Fully Loaded Cost of New Position #2	\$	102,700	\$	-	\$	50,000	\$	50,000	0.0%	50.0%	50.0%	
Fully Loaded Cost of New Position #2 Fully Loaded Cost of New Position #3	\$	100,000	\$	-	\$	50,000	\$	50,000	0.0%	50.0%	50.0%	
Fully Loaded Cost of New Position #4	\$	-	\$	-	\$	-	\$	-	0.0%	50.0%	50.0%	
•		-		-		-		-	0.0%			
Fully Loaded Cost of New Position #5 Subtotal	\$	-	\$	-	\$	-	\$	-		50.0% 50.0%	50.0%	
TOTAL: PERSONNEL	\$	202,700 727.400	\$	<u> </u>	\$	101,350	\$	101,350	0.0%		50.0%	
MATERIALS & SERVICES	\$	727,400	\$	•	\$	363,700	\$	363,700	0.0%	50.0%	50.0%	
		CO 400	φ.		•	24 700		24 700	0.00/	50.0%	50.0%	
CONTRACT/PROFESSIONAL SERVICES	\$	63,400	\$	-	\$	31,700		31,700	0.0%			
AUDIT SERVICES	\$	26,400	\$	-	\$	13,200	\$	13,200	0.0%	50.0%	50.0%	
OFFICE SUPPLIES (includes 5078)	\$	12,600	\$	-	\$		\$	6,300	0.0%	50.0%	50.0%	
POSTAGE	\$	42,200	\$	-	\$	21,100		21,100	0.0%	50.0%	50.0%	
TRAINING, CONFERENCES & MEETINGS	\$	3,200	\$	-	\$	1,600		1,600	0.0%	50.0%	50.0%	
COLLECTION COSTS/BANK FEES	\$	31,600	\$	-	\$		\$	15,800	0.0%	50.0%	50.0%	
BAD DEBTS	\$	6,400	\$	-	\$	3,200	\$	3,200	0.0%	50.0%	50.0%	
Subtotal	\$	185,800	\$	-	\$	92,900	\$	92,900	0.0%	50.0%	50.0%	
TOTAL: MATERIALS & SERVICES	\$	185,800	\$	-	\$	92,900		92,900	0.0%	50.0%	50.0%	
TOTAL: FINANCE	\$	913,200	\$	-	\$	456,600	\$	456,600	0.0%	50.0%	50.0%	

Budget Categories		ital Revenue equirements	С	ommodity		Capacity	Cı	ıstomer	Basis of Classification			
Budget Gategories		Y 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)	
DEPARTMENT: ENGINEERING - 03				, ,						, , ,	()	
PERSONNEL												
Salaries												
REGULAR SALARIES	\$	109,100	\$	49,095	\$	54,550	\$	5,455	45.0%	50.0%	5.0%	
OVERTIME WAGES	\$	-	\$	-	\$	-	\$	-	45.0%	50.0%	5.0%	
Subtotal	\$	109,100	\$	49.095	\$	54,550	\$	5,455	45.0%	50.0%	5.0%	
Benefits			'	ŕ		,	· ·	ŕ				
MEDICAL INSURANCE	\$	16,800	\$	7,560	\$	8,400	\$	840	45.0%	50.0%	5.0%	
DENTAL INSURANCE	\$	1,300	\$	585	\$	650	\$	65	45.0%	50.0%	5.0%	
VISION INSURANCE	\$	200	\$	90	\$	100	\$	10	45.0%	50.0%	5.0%	
LIFE INSURANCE	\$	200	\$	90	\$	100	\$	10	45.0%	50.0%	5.0%	
LONG TERM DISABILITY	\$	500	\$	225	\$	250	\$	25	45.0%	50.0%	5.0%	
PERS - RETIREMENT	\$	13,900	\$	6,255	\$	6,950	\$	695	45.0%	50.0%	5.0%	
FICA - SOCIAL SECURITY	\$	6,800	\$	3,060	\$	3,400	\$	340	45.0%	50.0%	5.0%	
WORKERS COMPENSATION	\$	500	\$	225	\$	250	\$	25	45.0%	50.0%	5.0%	
ASSISTANCE PROGRAM	\$	100	\$	45	\$	50	\$	5	45.0%	50.0%	5.0%	
MEDICARE RETIRED MEDICAL	\$	1,600	\$	720	\$	800	\$	80	45.0%	50.0%	5.0%	
SPECIAL CLOTHING	\$	700	\$	315	\$	350	\$	35	45.0%	50.0%	5.0%	
ANNUAL OPEB	\$	-	\$	-	\$	-	\$	-	45.0%	50.0%	5.0%	
Subtotal	\$	42,600	\$	19,170	\$	21,300	\$	2,130	45.0%	50.0%	5.0%	
Additional Positions (4)	'	,	,	-,	^	,	,	,				
Fully Loaded Cost of New Position #6	\$	102,700	\$	46,215	\$	51,350	\$	5,135	45.0%	50.0%	5.0%	
Subtotal	\$	102,700	\$	46.215	\$	51,350	\$	5.135	45.0%	50.0%	5.0%	
TOTAL: PERSONNEL	\$	254,400	\$	114,480	\$	127,200	\$	12,720	45.0%	50.0%	5.0%	
MATERIALS & SERVICES												
CONTRACT/PROFESSIONAL SERVICES	\$	21,000	\$	9,450	\$	10,500	\$	1,050	45.0%	50.0%	5.0%	
EQUIPMENT REPLACEMENT FUND	\$	-	\$	-	\$	-	\$	-	45.0%	50.0%	5.0%	
MAINT/OPERATIONS OF VEHICLES	\$	1,000	\$	450	\$	500	\$	50	45.0%	50.0%	5.0%	
SMALL TOOLS/MAINT & REPAIRS	\$	100	\$	45	\$	50	\$	5	45.0%	50.0%	5.0%	
EQUIP. NON-CAP	\$	1,200	\$	540	\$	600	\$	60	45.0%	50.0%	5.0%	
COMMUNICATIONS	\$	800	\$	360	\$	400	\$	40	45.0%	50.0%	5.0%	
OFFICE SUPPLIES	\$	800	\$	360	\$	400	\$	40	45.0%	50.0%	5.0%	
SUBSCRIPTIONS/BOOKS	\$	1,200	\$	540	\$	600	\$	60	45.0%	50.0%	5.0%	
TRAINING, CONFERENCES & MEETINGS	\$	1,000	\$	450	\$	500	\$	50	45.0%	50.0%	5.0%	
MEMBERSHIPS & DUES	\$	6,400	\$	2,880	\$	3,200	\$	320	45.0%	50.0%	5.0%	
Subtotal	\$	33,500	\$	15,075	\$	16,750	\$	1,675	45.0%	50.0%	5.0%	
OTAL: MATERIALS & SERVICES	\$	33,500	\$	15,075	\$	16,750	\$	1,675	45.0%	50.0%	5.0%	
TOTAL: ENGINEERING	\$	287,900	\$	129,555	\$	143,950	\$	14,395	45.0%	50.0%	5.0%	

Classification of Expenses - Water											
Budget Categories		otal Revenue equirements	С	ommodity		Capacity		Customer	В	asis of Classificat	ion
Budget Categories		Y 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)
DEPARTMENT: OPERATIONS/DISTRIBUTION - 04			<u> </u>	(33)		(51.11)		(3.3)	(30)	(3.2)	(5.9)
PERSONNEL											
Salaries											
REGULAR SALARIES	\$	918,500	\$	597,025	\$	275,550	\$	45,925	65.0%	30.0%	5.0%
TEMPORARY SALARIES	\$	-	\$		\$	· <u>-</u>	\$	-	65.0%	30.0%	5.0%
OVERTIME WAGES	\$	42,200	\$	27,430	\$	12,660	\$	2,110	65.0%	30.0%	5.0%
STANDBY WAGES	\$	28,400	\$	18,460	\$	8,520	\$	1,420	65.0%	30.0%	5.0%
Subtotal	\$	989,100		642,915	\$	296,730	\$	49,455	65.0%	30.0%	5.0%
Benefits	'	ŕ	-	,		,		,			
MEDICAL INSURANCE	\$	192.900	\$	125,385	\$	57,870	\$	9.645	65.0%	30.0%	5.0%
DENTAL INSURANCE	\$	20,200	\$	13,130	\$	6,060	\$	1,010	65.0%	30.0%	5.0%
VISION INSURANCE	\$	3,000	\$	1,950	\$	900	\$	150	65.0%	30.0%	5.0%
LIFE INSURANCE	\$	2,400	\$	1,560	\$	720	\$	120	65.0%	30.0%	5.0%
LONG TERM DISABILITY	\$	4,700	\$	3,055	\$	1,410	\$	235	65.0%	30.0%	5.0%
PERS - RETIREMENT	\$	109.200	\$	70.980	\$	32,760	\$	5.460	65.0%	30.0%	5.0%
FICA - SOCIAL SECURITY	\$	60,600	\$	39,390	\$	18,180	\$	3,030	65.0%	30.0%	5.0%
WORKERS COMPENSATION	\$	42,200	\$	27,430	\$	12,660	\$	2.110	65.0%	30.0%	5.0%
ASSISTANCE PROGRAM	\$	500	\$	325	\$	150	\$	25	65.0%	30.0%	5.0%
MEDICARE RETIRED MEDICAL	\$	14.400	\$	9,360	\$	4,320	\$	720	65.0%	30.0%	5.0%
SPECIAL CLOTHING	\$	7,600	\$	4,940	\$	2,280	\$	380	65.0%	30.0%	5.0%
CERTIFICATIONS	\$	800	\$	520	\$	240	\$	40	65.0%	30.0%	5.0%
Subtotal	\$	458.500	\$	298.025	\$	137.550	\$	22.925	65.0%	30.0%	5.0%
Additional Positions (4)	Ψ	400,000	Ψ	230,020	Ψ	101,000	Ψ	22,320	00.070	30.070	0.070
Fully Loaded Cost of New Position #7	\$	102,700	\$	66,755	\$	30,810	\$	5,135	65.0%	30.0%	5.0%
Fully Loaded Cost of New Position #8	\$	100.000	\$	65.000	\$	30.000	\$	5.000	65.0%	30.0%	5.0%
Subtotal	\$	202,700	\$	131,755	\$	60,810	\$	10,135	65.0%	30.0%	5.0%
TOTAL: PERSONNEL	\$	1.650.300	\$	1.072.695	\$	495.090	_	82,515	65.0%	30.0%	5.0%
MATERIALS & SERVICES	Ψ.	1,000,000	Ψ	1,072,033	Ψ	433,030	Ψ	02,313	03.070	30.070	3.070
CONTRACT/PROFESSIONAL SERVICES	\$	73,800	\$	47,970	\$	22,140	\$	3,690	65.0%	30.0%	5.0%
EQUIPMENT REPLACEMENT FUND	\$	70,000	\$	-17,070	\$	22,140	\$	0,000	65.0%	30.0%	5.0%
UTILITIES	\$	115,900	\$	75,335	\$	34,770	\$	5,795	65.0%	30.0%	5.0%
OPERATING SUPPLIES	\$	94.800	\$	61.620	\$	28,440	\$	4.740	65.0%	30.0%	5.0%
MAINT & OPERATIONS OF VEHICLES	\$	79,000	\$	51,350	\$	23,700	\$	3,950	65.0%	30.0%	5.0%
RENTAL/LEASES/PERMITS	\$	10,600	\$	6,890	\$	3,180	\$	530	65.0%	30.0%	5.0%
SMALL TOOLS-MAINT & REPAIRS	\$	10,600	\$	6,890	\$	3,180	\$	530	65.0%	30.0%	5.0%
EQUIPMENT NON-CAP	\$	7,900	\$	5,135	\$	2,370	\$	395	65.0%	30.0%	5.0%
FACILITIES MAINTENANCE	\$	15.800	\$	10.270	\$	4,740	\$	790	65.0%	30.0%	5.0%
COMMUNICATIONS & TELEMETERING	\$	59,000	\$	38,350	\$	17,700	\$	2,950	65.0%	30.0%	5.0%
OFFICE SUPPLIES (included 5078)	\$	6,900	\$	4,485	\$	2,070	\$	345	65.0%	30.0%	5.0%
SUBSCRIPTIONS/BOOKS	\$	-	\$	-,+03	\$	2,070	\$	- 1	65.0%	30.0%	5.0%
TRAINING, CONFERENCES & MEETINGS	\$	5,200	\$	3,380	\$	1,560	\$	260	65.0%	30.0%	5.0%
SPECIAL PROJECTS	\$	53,800	\$	34,970	\$	16.140	\$	2.690	65.0%	30.0%	5.0%
Subtotal	\$	533,300	\$	346,645	\$	159,990	\$	26,665	65.0%	30.0%	5.0%
TOTAL: MATERIALS & SERVICES	\$	533,300	\$	346,645	\$	159,990	\$	26,665	65.0%	30.0%	5.0%
TOTAL: MATERIALS & SERVICES TOTAL: OPERATIONS/DISTRIBUTION	\$	2,183,600	\$	1,419,340	\$	655,080	4	109,180	65.0%	30.0%	5.0%

Classification of Expenses - Water											
Budget Categories		tal Revenue guirements	С	ommodity		Capacity		Customer	В	asis of Classificati	on
Budget Gategories		FY 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)
DEPARTMENT: WATERSHED - 05				<u>`</u>							
PERSONNEL											
Salaries											
REGULAR SALARIES	\$	94,400	\$	42,480	\$	47,200	\$	4,720	45.0%	50.0%	5.0%
TEMPORARY SALARIES	\$	-	\$	-	\$	-	\$	-	45.0%	50.0%	5.0%
Subtotal	\$	94,400	\$	42,480	\$	47,200	\$	4,720	45.0%	50.0%	5.0%
Benefits											
MEDICAL INSURANCE	\$	21,200	\$	9,540	\$	10,600	\$	1,060	45.0%	50.0%	5.0%
DENTAL INSURANCE	\$	2,300	\$	1,035	\$	1,150	\$	115	45.0%	50.0%	5.0%
VISION INSURANCE	\$	300	\$	135	\$	150	\$	15	45.0%	50.0%	5.0%
LIFE INSURANCE	\$	100	\$	45	\$	50	\$	5	45.0%	50.0%	5.0%
LONG TERM DISABILITY	\$	500	\$	225	\$	250	\$	25	45.0%	50.0%	5.0%
PERS - RETIREMENT	\$	12,000	\$	5,400	\$	6,000	\$	600	45.0%	50.0%	5.0%
FICA - SOCIAL SECURITY	\$	6,000	\$	2,700	\$	3,000	\$	300	45.0%	50.0%	5.0%
WORKERS COMPENSATION	\$	400	\$	180	\$	200	\$	20	45.0%	50.0%	5.0%
ASSISTANCE PROGRAM	\$	_	\$	-	\$	_	\$	_	45.0%	50.0%	5.0%
MEDICARE	\$	1,300	\$	585	\$	650	\$	65	45.0%	50.0%	5.0%
SPECIAL CLOTHING	\$	-	\$	-	\$	-	\$	-	45.0%	50.0%	5.0%
Subtotal	\$	44.100	\$	19.845	\$	22.050	\$	2.205	45.0%	50.0%	5.0%
TOTAL: PERSONNEL	\$	138,500	\$	62,325	\$	69,250	\$	6,925	45.0%	50.0%	5.0%
MATERIALS & SERVICES		100,000	_	02,020	Ť	55,255	_	5,525	1010,0	00.070	0.0,0
CONTRACT/PROFESSIONAL SERVICES	\$	84,300	\$	37,935	\$	42,150	\$	4,215	45.0%	50.0%	5.0%
ROAD MAINTENANCE	\$	15,800	\$	7,110	\$		\$	790	45.0%	50.0%	5.0%
OPERATING SUPPLIES	\$	500	\$	225	\$	250	\$	25	45.0%	50.0%	5.0%
COMMUNICATIONS & TELEMETERING	\$	300	\$	135	\$	150	\$	15	45.0%	50.0%	5.0%
SUBSCRIPTIONS/BOOKS	\$	300	\$	135	\$	150	\$	15	45.0%	50.0%	5.0%
TRAINING, CONFERENCES & MEETINGS	\$	3,200	\$	1,440	\$	1,600	\$	160	45.0%	50.0%	5.0%
MEMBERSHIP & DUES	\$	1,300	\$	585	\$	650	\$	65	45.0%	50.0%	5.0%
WATERSHED & DATA COLLECTION GRNTS	\$	15,800	\$	7.110	\$	7,900	\$	790	45.0%	50.0%	5.0%
WATER CONSERVATION PROGRAM	\$	68,500	\$	68,500	\$	-	\$	-	100.0%	0.0%	0.0%
EDUCATION GRANT PROGRAM	\$	18,500	\$	8,325	\$	9,250	\$	925	45.0%	50.0%	5.0%
SPECIAL PROJECTS	\$	179,100	\$	80,595	\$	89,550	\$	8,955	45.0%	50.0%	5.0%
Subtotal	\$	387,600	\$	212.095	\$	159,550	\$	15.955	54.7%	41.2%	4.1%
TOTAL: MATERIALS & SERVICES	\$	387,600	\$	212,095	\$			15,955	54.7%	41.2%	4.1%
TOTAL: WATERSHED	Š	526,100	\$	274,420	\$		\$	22,880	52.2%	43.5%	4.3%

Classification of Expenses - Water												
		otal Revenue	c	Commodity		Capacity		Customer	Basis of Classification			
Budget Categories		equirements		<u> </u>								
DEPARTMENT: OPERATIONS/SUPPLY & TREATMENT -08		Y 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)	
PERSONNEL	+				1			1				
Salaries												
REGULAR SALARIES	\$	718,100	\$	359,050	\$	359,050	\$	_	50.0%	50.0%	0.0%	
TEMPORARY SALARIES	\$,	\$	-	\$	-	\$	_	50.0%	50.0%	0.0%	
OVERTIME WAGES	\$	39,000	\$	19,500	\$	19,500	\$	_	50.0%	50.0%	0.0%	
STANDBY	\$	4,200	\$	2.100	\$	2,100	\$	_	50.0%	50.0%	0.0%	
Subtotal	\$	761,300	\$	380,650	\$	380,650	\$	_	50.0%	50.0%	0.0%	
Benefits	*	701,000	,	300,000	,	000,000	,		30.070	00.070	0.070	
MEDICAL INSURANCE	\$	104,400	\$	52,200	\$	52,200	\$	_	50.0%	50.0%	0.0%	
DENTAL INSURANCE	\$	10,500	\$	5,250	\$	5,250	\$	_	50.0%	50.0%	0.0%	
VISION INSURANCE	\$	1,500	\$	750	\$	750	\$	_	50.0%	50.0%	0.0%	
LIFE INSURANCE	\$	1,500	\$	750 750	\$	750 750	\$	_	50.0%	50.0%	0.0%	
LONG TERM DISABILITY	\$	3.700	\$	1.850	\$	1.850	\$	_	50.0%	50.0%	0.0%	
PERS - RETIREMENT	\$	93,600	\$	46,800	\$	46,800	\$	_	50.0%	50.0%	0.0%	
FICA - SOCIAL SECURITY	\$	46,700	\$	23,350	\$	23,350	\$	_	50.0%	50.0%	0.0%	
WORKERS COMPENSATION	\$	33,200	\$	16,600	\$	16,600	\$	_	50.0%	50.0%	0.0%	
ASSISTANCE PROGRAM	\$	400	\$	200	\$	200	\$	_	50.0%	50.0%	0.0%	
MEDICARE RETIRED MEDICAL	\$	11,100	\$	5,550	\$	5,550	\$	_	50.0%	50.0%	0.0%	
SPECIAL CLOTHING	\$	5,200	\$	2,600	\$	2,600	\$	_	50.0%	50.0%	0.0%	
CERTIFICATIONS	\$	1,500	\$	750	\$	750	\$	_	50.0%	50.0%	0.0%	
Subtotal	\$	313,300	\$	156,650	\$	156,650	\$	_	50.0%	50.0%	0.0%	
Additional Positions (4)	*	0.70,000	,	700,000	,	700,000	۲		30.070	00.070	0.070	
Fully Loaded Cost of New Position #9	\$	102,700	\$	51,350	\$	51,350	\$	_	50.0%	50.0%	0.0%	
Fully Loaded Cost of New Position #10	\$	100,000	\$	50,000	\$	50,000	\$	_	50.0%	50.0%	0.0%	
Subtotal	\$	202,700	\$	101,350	\$	101,350	\$	-	50.0%	50.0%	0.0%	
TOTAL: PERSONNEL	\$	1,277,300	\$	638,650	\$	638,650	\$	-	50.0%	50.0%	0.0%	
MATERIALS & SERVICES		,		,		,						
CONTRACT/PROFESSIONAL SERVICES	\$	105,400	\$	52,700	\$	52,700	\$	-	50.0%	50.0%	0.0%	
CONTRACT SERVICES MANANA WOODS	\$	21,000	\$	10,500	\$	10,500	\$	-	50.0%	50.0%	0.0%	
OUTSIDE WATER ANALYSIS	\$	67,400	\$	33,700	\$	33,700	\$	-	50.0%	50.0%	0.0%	
LAB SUPPLIES	\$	12,600	\$	6,300	\$	6,300	\$	-	50.0%	50.0%	0.0%	
EQUIPMENT REPLACEMENT	\$	-	\$	-	\$	-	\$	-	50.0%	50.0%	0.0%	
UTILITIES	\$	300,400	\$	150,200	\$	150,200	\$	-	50.0%	50.0%	0.0%	
CHEMICALS	\$	35,800	\$	17,900	\$	17,900	\$	-	50.0%	50.0%	0.0%	
OPERATING SUPPLIES	\$	47,400	\$	23,700	\$	23,700	\$	-	50.0%	50.0%	0.0%	
MAINTENANANCE/OPERATIONS OF VEHICLES	\$	23,200	\$	11,600	\$	11,600	\$	-	50.0%	50.0%	0.0%	
RENTAL/LEASES/PERMITS	\$	110,700	\$	55,350	\$	55,350	\$	-	50.0%	50.0%	0.0%	
SMALL TOOLS-MAINTENANCE & REPAIRS	\$	3,700	\$	1,850	\$	1,850	\$	-	50.0%	50.0%	0.0%	
EQUIPMENT NON-CAP	\$	7,400	\$	3,700	\$	3,700	\$	-	50.0%	50.0%	0.0%	
FACILITIES MAINTENANCE	\$	7,900	\$	3,950	\$	3,950	\$	-	50.0%	50.0%	0.0%	
COMMUNICATIONS & TELEMETERING	\$	35,800	\$	17,900	\$	17,900	\$	-	50.0%	50.0%	0.0%	
OFFICE SUPPLIES (included 5078)	\$	6,200	\$	3,100	\$	3,100	\$	-	50.0%	50.0%	0.0%	
SUBSCRIPTIONS/BOOKS	\$	500	\$	250	\$	250	\$	-	50.0%	50.0%	0.0%	
TRAINING, CONFERENCES & MEETINGS	\$	3,200	\$	1,600	\$	1,600	\$	-	50.0%	50.0%	0.0%	
OTHER HOUSEHOLD SUPPLIES	\$	-	\$	-	\$	-	\$	-	50.0%	50.0%	0.0%	
Subtotal	\$	788,600	\$	394,300	\$	394,300	\$	-	50.0%	50.0%	0.0%	
TOTAL: MATERIALS & SERVICES	\$	788,600	\$	394,300	\$	394,300	\$	-	50.0%	50.0%	0.0%	
TOTAL: OPERATIONS/SUPPLY & TREATMENT	\$	2,065,900	\$	1,032,950	\$	1,032,950	\$	-	50.0%	50.0%	0.0%	
GRAND TOTAL: WATER FUND OPERATING EXPENSES	\$	6,735,741	\$	3,195,556	\$	2,896,901	\$	643,285	47.4%	43.0%	9.6%	

Classification of Expenses - Water		otal Revenue									
Budget Categories		equirements	С	ommodity		Capacity	Cı	ustomer	В	asis of Classificati	on
		Y 2017/18		(COM)		(CAP)		(CA)	(COM)	(CAP)	(CA)
								` ´			
Debt Service Payments											
2004 Refunding Water Revenue Bond, 2012 (1)	\$	709,710	\$	-	\$	709,710	\$	-	0.0%	100.0%	0.0%
2008 Safe Drinking Water Loan (3)	\$	186,797	\$	-	\$	186,797	\$	-	0.0%	100.0%	0.0%
Future New Debt	\$	-	\$	-	\$	-	\$	-	0.0%	100.0%	0.0%
Total Debt Service Payments	\$	896,508	\$	-	\$	896,508	\$	-	0.0%	100.0%	0.0%
Capital Expenditures											
Rate Funded Capital Expenses	\$	2,583,059	\$	-	\$	2,583,059	\$	-	0.0%	100.0%	0.0%
TOTAL REVENUE REQUIREMENTS	\$	10,215,307	\$	3,195,556	\$	6,376,467	\$	643,285	31.3%	62.4%	6.3%
Less: Non-Rate Revenues											
7501 Property Taxes											
PROPERTY TAXES	\$	(527,308)	\$	-	\$	(527,308)	\$	-	0.0%	100.0%	0.0%
OLY ASSESSMENT REVENUE	\$	- '	\$	-	\$	- 1	\$	-	0.0%	100.0%	0.0%
7502 Rental Revenue											
MOBILE SERVICES LEASE FEES	\$	(15,713)	\$	(4,915)	\$	(9,808)	\$	(989)	31.3%	62.4%	6.3%
JOHNSON PROPERTY RENTS	\$	(14,000)	\$	(4,379)	\$	(8,739)	\$	(882)	31.3%	62.4%	6.3%
7503 Investment Earnings		, ,		, ,		, ,		` ′			
LOMPICO LOAN - INTEREST	\$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
INTEREST - WATER	\$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
INTEREST - FELTON LOAN RESERVE	\$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
REALIZED G/L - MSDW	\$	-	\$	-	\$	_	\$	-	31.3%	62.4%	6.3%
UNREALIZED GAINS/LOSS - MSDW	\$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
INTEREST DIVIDEND - MSDW	\$	-	\$	-	\$	_	\$	-	31.3%	62.4%	6.3%
7504 Gain/Loss on Sale of Assets	•		•		•						
SALE OF SURPLUS PROPERTY	\$	-	\$	-	\$	_	\$	-	31.3%	62.4%	6.3%
LOSS ON SALE/ABAND FIXED ASSET	\$	-	\$	-	\$	_	\$	-	31.3%	62.4%	6.3%
7505 Other Income	•		•		•						
ACCT. ESTAB. CHARGES & PENALTY	\$	(50,000)	\$	(15,641)	\$	(31,210)	\$	(3,149)	31.3%	62.4%	6.3%
ASSESSMENT BOND - N.B.C.	\$	-	\$		\$	-	\$	-	31.3%	62.4%	6.3%
SALE OF METERS	\$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
MISCELLANEOUS	\$	(9,803)	\$	(3,067)		(6,119)	\$	(617)	31.3%	62.4%	6.3%
REIMB. FOR MANANA WOODS	\$	-	\$	-	\$	-	\$	`- '	31.3%	62.4%	6.3%
LOMPICO LOAN - PRINCIPAL	\$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
CSI - #34053 MANANA WOODS	\$	(237)	\$	(74)	\$	(148)	\$	(15)	31.3%	62.4%	6.3%
CSI - # 34057 LYON WTP	\$	(1,148)		(359)		(717)		(72)	31.3%	62.4%	6.3%
CSI - #34058 KIRBY WTP	\$	(5,184)		(1,622)		(3,236)	\$	(326)	31.3%	62.4%	6.3%
Deduction to Uses of Funds for Revenue to Meet Net Re	v. Regt \$	-	\$	-	\$	-	\$	-	31.3%	62.4%	6.3%
NET REVENUE REQUIREMENTS - WATER	\$	9,591,915	\$_	3,165,498	\$_	5,789,182	\$	637,234			
Allocation of Revenue Requirements		100.0%		33.0%		60.4%		6.6%			

Net Revenue Reqt. Check from Financial Plan \$

Classification of Expenses - Water, continued Adjustments to Classification of Expenses				
Adjustment for Current Rate Level:	Total	(COM)	(CAP)	(CA)
Test Year (FY 2017/18) Target Rate Revenue	\$ 11,103,572			
Projected Rate Revenue at Current Rates	\$ 5,237,534			
Adjusted Net Revenue Req'ts	\$ 11,103,572	\$ 3,664,371	\$ 6,701,540	\$ 737,660
Percent of Revenue	100.0%	33.0%	60.4%	6.6%

Existing Allocation of Fixed vs. Variable Charges		
Variable Charges	\$ 2,435,625	46%
Fixed Charges	\$ 2,806,166	53%
Drought Surcharges	\$ 80,021	2%
Total	\$ 5,321,811	100%

Development of the COMMODI	ΓΥ (Volumetric) A	llocation Factor -	Water Utility	
Customer Class	FY 2014/15 Volume (ccf) (1)	% Adjustment for Conservation	Estimated FY 2015/16 Volume Adjusted for Conservation	Percent of Total Volume
Residential	457,003	0%	444,202	70.0%
Multi-Family Residential	107,598	0%	100,184	15.8%
Commercial	8,231	0%	7,261	1.1%
Industrial	31,792	0%	31,389	4.9%
Landscape/Irrigation	35,924	0%	36,761	5.8%
Other systems	5,725	0%	5,779	0.9%
Private Mutual	5,310	0%	6,368	1.0%
Surplus (bulk water sales)	1,330	0%	2,149	0.3%
Vacant	452	0%	370	0.1%
Total	653,365	3%	634,462	100%

^{1.} Consumption data is based on the SLVWD's billing data.

Commodity Related Costs: These costs are associated with the total consumption (flow) of water over a specified period of time (e.g. annual).

Development of the CAPACITY	(MAX MONTH) AI	location Factor - \	Water Utility	
Customer Class	Average Monthly Use (ccf)	Peak Monthly Use (ccf) (1)	Peak Monthly Factor	Max Month Capacity Factor
Residential	37,017	48,392	1.31	67.6%
Multi-Family Residential	8,349	10,486	1.26	14.6%
Commercial	605	1,163	1.92	1.6%
Industrial	2,616	3,170	1.21	4.4%
Landscape/Irrigation	3,063	4,590	1.50	6.4%
Other systems	482	1,157	2.40	1.6%
Private Mutual	531	1,956	3.69	2.7%
Surplus (bulk water sales)	179	642	3.58	0.9%
Vacant	31	65	2.11	0.1%
Total	52,872	71,622	1.35	100%

^{1.} Based on peak monthly data (peak day data not available).

Capacity Related Costs: Costs associated with the maximum demand required at one point in time or the maximum size of facilities required to meet this demand.

Development of the CUSTOME	R Allocation Factor	or - Water Utility
Customer Class	Number of Meters (1)	Percent of Total
Residential	6,531	88.6%
Multi-Family Residential	502	6.8%
Commercial	199	2.7%
Industrial	52	0.7%
Landscape/Irrigation	13	0.2%
Other systems	7	0.1%
Private Mutual	6	0.1%
Surplus (bulk water sales)	3	0.0%
Vacant	59	0.8%
Total	7,372	100.0%

^{1.} Meter Count data is based on the SLVWD's billing data for February 2016.

Customer Related Costs: Costs associated with having a customer on the water system. These costs vary with the addition or deletion of customers on the system. Examples: Meter-reading, Postage and billing.

ALLOCATION OF WATER COST REQUIREMENTS:

Classification Components	Net	Cost Require	ements (2017/18)
Commodity-Related Costs	\$	3,664,371	33.0%
Capacity-Related Costs		6,701,540	60.4%
Customer-Related Costs		737,660	6.6%
Net Revenue Requirement	\$	11,103,572	100%

<u>Unadjusted Net Cost Req'ts.</u> Total variable: 33%

Total fixed: 67%

Total: 100%

Allocation of Net Cost Requirem	ents (Wat	er) By Custo	mer	Class - FY 20	17/1	8			
		Cost CI	assi	fication Com	one	ents	N	let Cost of	% of Net Cost of
Customer Class	Cor	nmodity (1)	С	apacity (2)	Cı	ustomer (3)	Re	Service quirements	Service Requirements
Residential	\$	2,565,511	\$	4,527,989	\$	653,508	\$	7,747,008	69.8%
Multi-Family Residential		578,619		981,150		50,231		1,610,000	14.5%
Commercial		41,934		108,848		19,912		170,694	1.5%
Industrial		181,291		296,647		5,203		483,141	4.4%
Landscape/Irrigation		212,316		429,523		1,301		643,140	5.8%
Other systems		33,374		108,258		700		142,333	1.3%
Private Mutual		36,779		183,019		600		220,398	2.0%
Surplus (bulk water sales)		12,412		60,024		300		72,736	0.7%
Vacant		2,136		6,082		5,904		14,122	0.1%
Total	\$	3,664,371	\$	6,701,540	\$	737,660	\$	11,103,572	100.0%

^{1.} Commodity Costs are allocated based upon percentage of expected consumption.

^{3.} Customer Costs are allocated based upon Percentage of Total Accounts.

Current Water Rate Revenue Com	parison									
		Rate	Reve	enue (FY 201	4/15)				% of Net Cost of	
Customer Class		Fixed	,	Variable		rought rcharges	Total	% of Total	Service Requirements	Difference
					Ou	renarges		а	b	= b - a
Residential	\$	2,307,236	\$	1,694,355	\$	56,555	\$ 4,058,146	76.3%	69.8%	-6.5%
Multi-Family Residential		310,348		343,692		13,948	667,988	12.6%	14.5%	1.9%
Commercial		95,875		123,522		4,849	224,246	4.2%	1.5%	-2.7%
Industrial		52,597		192,316		3,269	248,181	4.7%	4.4%	-0.3%
Landscape/Irrigation		8,191		21,677		45	29,913	0.6%	5.8%	5.2%
Other systems		3,274		9,018		194	12,487	0.2%	1.3%	1.0%
Private Mutual		8,426		32,276		889	41,591	0.8%	2.0%	1.2%
Surplus (bulk water sales)		-		17,403		249	17,652	0.3%	0.7%	0.3%
Vacant		20,219		1,365		24	21,608	0.4%	0.1%	-0.3%
Total	\$	2,806,166	\$	2,435,625	\$	80,021	\$ 5,321,811	100.0%	100.0%	0.0%

53% 46% 2% 100%

^{2.} Capacity Costs are allocated based upon Max Month Capacity Factor.

Water Consumption Data used for Sa	an Lorenzo Valle	y Water Distri	ct Rates:		
			Avg	. hcf by Month	
Summary of Consumption by Class	Consumption	meters*	Annual	Summer	Winter
Residential	444,202	6,531	6	7	5
Multi-Family Residential	100,184	502	17	20	15
Commercial	7,261	199	3	5	2
Industrial	31,389	52	50	57	47
Landscape/Irrigation	36,761	13	236	343	153
Other systems	5,779	7	69	137	21
Private Mutual	6,368	6	88	219	29
Surplus (bulk water sales)	2,149	3	60	92	22
Vacant	370	59	1	1	0
Total	634,462	7,372			

^{*} Number of meters is per SLVWD billing data. Meter count is from February 2016.

FY 2014/15 App	rox	cimate Rate	Re	venue from	Wa	ater Rates (1)	
Revenue by		Fixed		Variable		Drought		TOTAL
Customer Class		Charges		Charges	Sı	ırcharges		
Residential	\$	2,307,236	\$	1,694,355	\$	56,555	\$	4,058,146
Multi-Family Residential	\$	310,348	\$	343,692	\$	13,948	\$	667,988
Commercial	\$	95,875	\$	123,522	\$	4,849	\$	224,246
Industrial	\$	52,597	\$	192,316	\$	3,269	\$	248,181
Landscape/Irrigation	\$	8,191	\$	21,677	\$	45	\$	29,913
Other systems	\$	3,274	\$	9,018	\$	194	\$	12,487
Private Mutual	\$	8,426	\$	32,276	\$	889	\$	41,591
Surplus (bulk water sales)	\$	-	\$	17,403	\$	249	\$	17,652
Vacant	\$	20,219	\$	1,365	\$	24	\$	21,608
Total	\$	2,806,166	\$	2,435,625	\$	80,021	\$	5,321,811
Fixed vs. Variable %	-	53%		46%		2%		

^{1.} Rate Revenue For March 2015 - February 2016 from SLVWD billing data.

APPENDIX C - DETAILED SEWER COST-OF-SERVICE TABLES & FIGURES

Appendix C is included under separate cover.



TABLE 1
FINANCIAL PLAN AND SUMMARY OF SEWER COST REQUIREMENTS (1)

CEINED COCT DECLUDEMENTS CHAMADY	Budget									F	Projected								
SEWER COST REQUIREMENTS SUMMARY	Y 2015/16	FY 20	16/17	FY 2	2017/18	FY	2018/19	F	Y 2019/20	F	Y 2020/21	FY	2021/22	F	Y 2022/23	F١	2023/24	F١	Y 2024/25
Sources of Funds																			
SEWER REVENUES:																			
Sewer Service Charge	100,088	1	00,088		100,088		100,088		100,088		100,088		100,088		100,088		100,088		100,088
Other Revenues	\$ 	\$		\$	-	\$	-	\$	_	\$		\$	-	\$		\$	-	\$	-
Total Sources of Funds	\$ 100,088	\$ 1	00,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088
Uses of Funds			-								-				-				
OPERATING EXPENSES (2):																			
PERSONNEL	\$ 20,700	\$	21,256	\$	21,827	\$	22,413	\$	23,014	\$	23,632	\$	24,267	\$	24,918	\$	25,587	\$	26,274
MATERIALS & SERVICES	112,770	1	15,796		118,905		122,096		125,371		128,732		132,185		135,732		139,371		143,112
Subtotal: Operating Expenses	\$ 133,470	\$ 1	37,051	\$	140,732	\$	144,509	\$	148,385	\$	152,364	\$	156,451	\$	160,651	\$	164,958	\$	169,386
OTHER EXPENDITURES:			-																
Existing Debt Service	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Future Debt Service	-		-		-		-		-		-		-		-		-		-
Rate-Funded Capital Expenses (3)	-		63,880		65,796		67,770		69,803		71,898		74,054		76,276		78,564		80,921
Subtotal: Other Expenditures	\$ -	\$	63,880	\$	65,796	\$	67,770	\$	69,803	\$	71,898	\$	74,054	\$	76,276	\$	78,564	\$	80,921
Total Uses of Water Funds	\$ 133,470	\$ 2	00,931	\$	206,528	\$	212,279	\$	218,189	\$	224,262	\$	230,506	\$	236,927	\$	243,523	\$	250,308
Annual Surplus/(Deficit)	\$ (33,381)	\$ (1	00,843)	\$ ((106,440)	\$	(112,191)	\$	(118,100)	\$	(124,174)	\$	(130,418)	\$	(136,838)	\$	(143,434)	\$	(150,219)
Net Cost Requirement (Total Uses less Non-Rate Revenue)	\$ 133,470	\$ 2	00,931	\$	206,528	\$	212,279	\$	218,189	\$	224,262	\$	230,506	\$	236,927	\$	243,523	\$	250,308

^{1.} Revenue and expenses for FY 2015/16 through FY 2020/21 were provided by City Staff. Source File: 2016 Sanitation Fund Rate Analysis-2.xlsx.

TABLE 2
SEWER RESERVE FUND SUMMARY, UN-RESTRICTED RESERVES

SUMMARY OF CASH ACTIVITY		Budget									Projected								
UN-RESTRICTED RESERVES - SEWER	F	Y 2015/16	F	Y 2016/17	FY 2017/18	F	Y 2018/19	F	FY 2019/20	F	FY 2020/21	F`	Y 2021/22	F	Y 2022/23	F	Y 2023/24	F	Y 2024/25
Total Beginning Cash (1)	\$	-	\$	-															
Un-Restricted Reserves:								-						-					
Operating Reserve																			
Beginning Reserve Balance	\$	-	\$	(33,381)	\$ (134,224)	\$	(240,664)	\$	(352,855)	\$	(470,955)	\$	(595,129)	\$	(725,547)	\$	(862,385)	\$	(1,005,819)
Plus: Net Cash Flow (After Rate Increases)		(33,381)		(100,843)	(106,440)		(112,191)		(118,100)		(124,174)		(130,418)		(136,838)		(143,434)	l	(150,219)
Plus: Transfer of Debt Reserve Surplus		-		-	-		-		-		-		-		-		-	l	-
Less: Transfer Out to Capital Replacement Reserve		-		-	-		-		-		-		-		-		-	<u> </u>	-
Ending Operating Reserve Balance	\$	(33,381)	\$	(134,224)	\$ (240,664)	\$	(352,855)	\$	(470,955)	\$	(595,129)	\$	(725,547)	\$	(862,385)	\$	(1,005,819)	\$	(1,156,039)
Target Ending Balance (90 days of O&M)	\$	33,400	\$	34,300	\$ 35,200	\$	36,100	\$	37,100	\$	38,100	\$	39,100	\$	40,200	\$	41,200	\$	42,300
Capital Rehabilitation & Replacement Reserve																			
Beginning Reserve Balance	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Plus: Grant Proceeds		-		-	-		-		-		-		-		-		-	l	-
Plus: Transfer of Operating Reserve Surplus		-		-	-		-		-		-		-		-		-	l	-
Less: Use of Reserves for Capital Projects		-		-	-		-		-		-		-		-		-	l	-
Ending Capital Rehab & Replacement Reserve Balance	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Target Ending Balance (2)	\$	89,778	\$	94,503	\$ 96,205	\$	97,994	\$	99,882	\$	101,888	\$	104,030	\$	106,336	\$	108,841	\$	111,593
Ending Balance - Excl. Restricted Reserves	\$	(33,381)	\$	(134,224)	\$ (240,664)	\$	(352,855)	\$	(470,955)	\$	(595,129)	\$	(725,547)	\$	(862,385)	\$	(1,005,819)	\$	(1,156,039)
Min. Target Ending Balance - Excl. Restricted Reserves	\$	123,178	\$	128,803	\$ 131,405	\$	134,094	\$	136,982	\$	139,988	\$	143,130	\$	146,536	\$	150,041	\$	153,893
Ending Surplus/(Deficit) Compared to Reserve Targets	\$	(156,560)	\$	(263,028)	\$ (372,069)	\$	(486,948)	\$	(607,938)	\$	(735,117)	\$	(868,676)	\$	(1,008,921)	\$	(1,155,860)	\$	(1,309,932)
Annual Interest Earnings Rate (3)		0.35%		0.35%	0.50%		0.75%		1.00%		1.25%		1.50%		1.75%		2.00%		2.00%

^{1.} Total beginning cash is based on FY 2014/15 ending Fund Balance, as listed in Source File: 2016 Sanitation Fund Rate Analysis-2.xlsx.

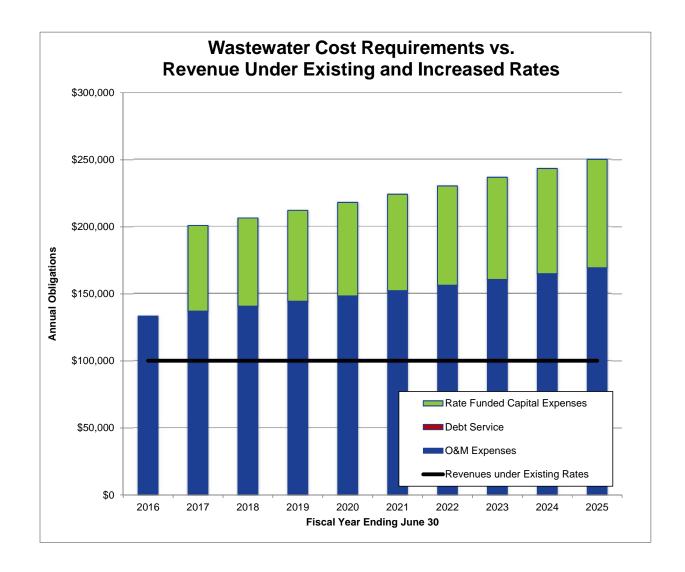
^{2.} Assumes annual inflation of 4%, beyond FY 2020/21 (file: 2016 Sanitation Fund Rate Analysis.xls).

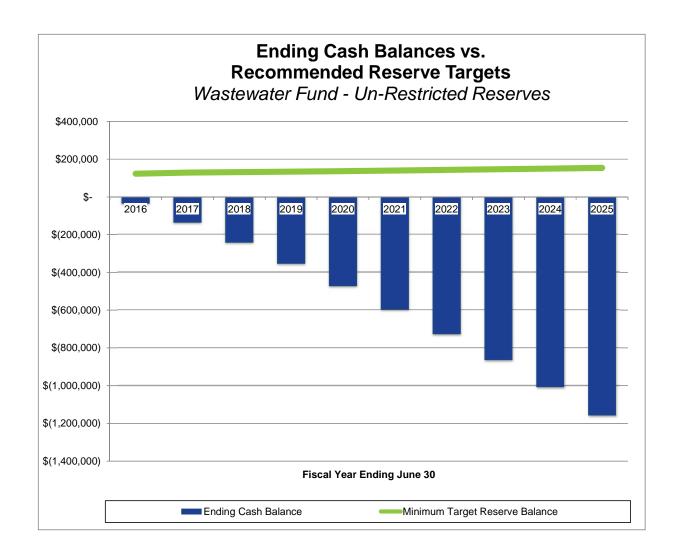
^{3.} Assumes annual inflation of the 10 year average change in the Construction Cost Index for 2006-2015; applied to estimated future expenditures beyond FY 2020/21. Source: Engineering News Record website (http://enr.construction.com).

^{4.} Assumes new rates are implemented July 1, 2017.

^{2.} The Capital Rehabilitation & Replacement Reserve target is set to the annual average of Capital Project expenditures (in future year dollars).

^{3.} Historical interest earning rates were referenced on the CA Treasurer's Office website for funds invested in LAIF. Future years earnings were conservatively estimated through 2021 and phase into the historical 10 year average interest earnings rate.





SEWER REVENUE FORECAST:

DESCRIPTION (1)	Basis	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SEWER REVENUE											
7102 Wastewater Service											
SEWER CHARGES	1	100,088	\$ 100,088								
TOTAL: REVENUE		\$ 100,088	\$ 100,088								

SEWER REVENUE SUMMARY:

SEWER REVENUE																				
Other Revenues	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Sewer Service Charge	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088
TOTAL: REVENUE	\$	100,088	\$	100,088	\$	100,088	44	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088	\$	100,088
:	Φ.		0		Φ.		0		Φ.											

SEWER FUND OPERATING EXPENSE FORECAS	T (2):																			
	Basis	2016		2017		2018		2019		2020		2021		2022		2023		2024		2025
PERSONNEL																				
Salaries																				
REGULAR SALARIES	3	\$ 15,00	0 \$	15,403	\$	15,816	\$	16,241	\$	16,677	\$	17,125	\$	17,585	\$	18,057	\$	18,542	\$	19,039
OVERTIME WAGES	3	2,50	0	2,567		2,636		2,707		2,780		2,854		2,931		3,009		3,090		3,173
STANDBY WAGES	3	50	0	513		527		541		556		571		586		602		618		635
Subtotal		\$ 18,00	0 \$	18,483	\$	18,980	\$	19,489	\$	20,012	\$	20,550	\$	21,102	\$	21,668	\$	22,250	\$	22,847
Benefits				•		,	-	,	•	•	-	,		,		,		,		•
MEDICAL INSURANCE	3	\$	- \$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
DENTAL INSURANCE	3		- '	_		_		_		_		-		-		-		-		-
PERS - RETIREMENT	3	1,30	0	1,335		1,371		1,408		1,445		1.484		1,524		1,565		1.607		1,650
FICA - SOCIAL SECURITY	3	1,10		1,130		1,160		1,191		1,223		1,256		1,290		1,324		1,360		1,396
WORKERS COMPENSATION	3		-	-		-		-		-				-		-		-		-
MEDICARE RETIRED MEDICAL	3	30	0	308		316		325		334		342		352		361		371		381
SPECIAL CLOTHING	3		-	_		_		_		_		-		-		-		-		-
Subtotal		\$ 2,70	0 \$	2,772	\$	2,847	\$	2,923	\$	3,002	\$	3,082	\$	3,165	\$	3,250	\$	3,337	\$	3,427
Additional Positions			٠, ۳	_,	–	2,047	•	2,020	Ψ.	0,002	Ι Ψ	0,002	*	0,100	۳	0,200	*	0,001	Ψ.	0,121
Fully Loaded Cost of New Position(s)	3	\$	- \$	_	\$	_	\$	_	\$	_	\$	-	\$	_	\$	-	\$	_	\$	_
Subtotal	-	\$	- *		\$		\$		\$		\$		\$		\$		\$		\$	
Subiolai		Ψ	- Ψ	_	Ψ	_	Ψ	=	Ψ	_	Ψ	=	Ψ	_	Ψ	_	Ψ	-	Ψ	_
TOTAL: PERSONNEL		\$ 20,70	0 \$	21,256	\$	21,827	\$	22,413	\$	23,014	\$	23,632	\$	24,267	\$	24,918	\$	25,587	\$	26,274
		,	` `	,	_	_ 1,0_1	•	,	_		_	_0,00_	_	,	•	,	_	_0,00.	*	
MATERIALS & SERVICES																				
ADMIN OVERHEAD ALLOCATION FROM WATER	1	\$ 10,97	0 \$	11,298	\$	11,639	\$	11,987	\$	12,344	\$	12,710	\$	13,088	\$	13,479	\$	13,878	\$	14,294
CONTRACT/PROFESSIONAL SERVICES	2	\$ 51,00			\$	53,739	\$	55,163		56,625	\$	58,125	\$		\$	61,247		62,870	\$	64,536
OUTSIDE WATER ANALYSIS	2	14,60	0	14,987		15,384		15,792		16,210		16,640		17,081		17,533		17,998		18,475
ADMINISTRATION OVERHEAD	2	4,00		4,106		4,215		4,327		4,441		4,559		4,680		4,804		4,931		5,062
EQUIPMENT REPLACEMENT FUND	2	,	-	,		-		-		, -		-		-		-		-		-
UTILITIES	2	7,00	0	7,186		7,376		7,571		7,772		7,978		8,189		8,406		8,629		8,858
OPERATING SUPPLIES	2	6.00	0	6,159		6,322		6,490		6,662		6,838		7.019		7,205		7,396		7,592
MAINT & OPERATIONS OF VEHICLES	2	50	0	513		527		541		555		570		585		600		616		633
RENTAL/LEASES/PERMITS	2	15,00		15,398		15,806		16,224		16,654		17,096		17,549		18,014		18,491		18,981
FACILITIES MAINTENANCE	2	50		513		527		541		555		570		585		600		616		633
COMMUNICATIONS & TELEMETERING	2	3,20	0	3,285		3,372		3,461		3,553		3,647		3,744		3,843		3,945		4,049
OFFICE SUPPLIES (included 5078)	2		-	-		-				-		-						-		
POSTAGE	2		-	-		-		-		-		-		-		-		-		-
Subtotal		\$ 112,77	0 \$	115,796	\$	118,905	\$	122,096	\$	125,371	\$	128,732	\$	132,185	\$	135,732	\$	139,371	\$	143,112
TOTAL: MATERIALS & SERVICES		\$ 112,77				118,905	\$	122,096		125,371	\$	128,732	\$	132,185	\$	135,732	\$	139,371	\$	143,112
GRAND TOTAL: WASTEWATER EXPENSES		\$ 133,47		137,051	\$	140,732	\$	144,509	\$	148,385	\$	152,364	\$		\$	160,651	\$	164,958	\$	169,386

NON-CASH ITEMS, EXCLUDED FROM ABOVE:

DESCRIPTION	Basis	201	6	2017	20	18	2	2019	2020	2	021	20	22	2023	2	024	20	025
DEPRECIATION																		
Depreciation Expense	2	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-	\$	-
SUBTOTAL: DEPRECIATION		\$	-	\$	\$	-	\$	-	\$ -	\$	-	\$	-	\$ -	\$		\$	-

FORECASTING ASSUMPTIONS:

COST INFLATION FACTORS	Basis	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Customer Growth	1		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
General Cost Inflation (4)	2		2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%	2.65%
Labor Cost Inflation (5)	3		2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%
Water Purchases	4		5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Energy (6)	5		4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%	4.40%
Chemicals (7)	6		5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Fuel	7		3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
No Escalation	8		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

- 1. Revenues are from the Final Trial Balance on June 30, 2015 from source file: SLVWD 2015 Working TB.xls and are actual revenues from FY 14/15.
- 2. Expenses are from the FY 2015/16 Budget and from source file: FY1516 BUDGET FINAL.pdf. All projected expenses are rounded to the nearest \$100.
- 3. 1.5 percent of Administration budget items are allocated to the sewer utility; per District staff, via email September 2016.
- 4. Expected Inflation factors based on expense type from 5 year average from Bureau of Labor Statistics Data.
 - http://www.bls.gov/regions/west/news-release/consumerpriceindex_sanfrancisco.htm
- 5. Labor cost inflation is based on the 5-year average annual change in the Quarterly Census of Employment and Wages (San Jose area, CA). http://www.bls.gov/regions/west/news-release/2016/employmentcostindex_sanjose_20161031.htm
- 6. Estimated energy cost inflation provided by a University of California Davis report:
 - The Future of Electricity Prices in California: Understanding Market Drivers and Forecasting Prices to 2040," by Johnathan Cook, Ph.D., page 31, Table 7.
- 7. Inflation factor recently used by other California water agencies (e.g., City of Sunnyvale, City of Eureka, Humboldt CSD).

CAPITAL FUNDING SUMMARY - SEWER

CAPITAL FUNDING FORECAST	Budge	et						Projected				
Sewer Funding Sources:	FY 2015	/16	FY 2016/17	FY 2017/18	FY 2018/19	•	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25
Grants	\$	-	\$ -	\$ -	\$	- [\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Use of Capacity Fee Reserves		-	-	-		-	-	-	-	-	-	-
SRF Loan Funding		-	-	-		-	-	-	-	-	-	-
Use of Future Revenue Bond Proceeds		-	-	-		-	-	-	-	-	-	-
Use of Capital Rehabilitation and Replacement Reserve		-	-	-		-	-	-	-	-	-	-
Rate Revenue		-	63,880	65,796	67,77	0	69,803	71,898	74,054	76,276	78,564	80,921
Total Sources of Capital Funds	\$	-	\$ 63,880	\$ 65,796	\$ 67,77	0	\$ 69,803	\$ 71,898	\$ 74,054	\$ 76,276	\$ 78,564	\$ 80,921
Uses of Capital Funds:												
Total Project Costs	\$	-	\$ 63,880	\$ 65,796	\$ 67,77	0	\$ 69,803	\$ 71,898	\$ 74,054	\$ 76,276	\$ 78,564	\$ 80,921
Capital Funding Surplus (Deficiency)	\$	-	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SRF Loan Funding	\$	-	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Future Revenue Bond Proceeds	\$	-	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

CAPITAL IMPROVEMENT PROGRAM - SEWER

Sewer Capital Improvement Program Costs (1):

Project Description	2016		2017	2018	2019	2020	2021	2022	2023	2024	2025
Pipes	\$ -	\$	-	\$ -							
Tanks (including 10% volume contingency)	\$ -	\$	-	\$ -							
Pump Stations	\$ -	\$	-	\$ -							
Wells	\$ -	\$	-	\$ -							
Treatment	\$ -	\$	19,200	\$ 19,200							
Diversions	\$ -	\$	44,680	\$ 44,680							
Admin/Operations Building	\$ -	\$	-	\$ -							
Placeholder for Future Year Capital Projects	\$ -	\$	-	\$ -							
Total: CIP Program Costs	\$	- \$	63,880	\$ 63,880							

Sewer Capital Improvement Program Costs (in Future-Year Dollars):

Project Description	2016	i	2017	2018	2019	2020	2021	2022		2023	2024	2025
Pipes	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -
Tanks (including 10% volume contingency)	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -
Pump Stations	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -
Wells	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -
Treatment	\$	-	\$ 19,200	\$ 19,776	\$ 20,369	\$ 20,980	\$ 21,610	\$ 22,	258	\$ 22,926	\$ 23,614	\$ 24,322
Diversions	\$	-	\$ 44,680	\$ 46,020	\$ 47,401	\$ 48,823	\$ 50,288	\$ 51,	796	\$ 53,350	\$ 54,951	\$ 56,599
Admin/Operations Building	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -
Placeholder for Future Year Capital Projects	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -
Total: Capital Improvement Program Costs (Future-Year Dollars)	\$	-	\$ 63,880	\$ 65,796	\$ 67,770	\$ 69,803	\$ 71,898	\$ 74,	054	\$ 76,276	\$ 78,564	\$ 80,921

FORECASTING ASSUMPTIONS:

Economic Variables	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Annual Construction Cost Inflation, Per Engineering News Record(2)	0.00%	0.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Construction Cost Multiplier from 2016	1.00	1.00	1.03	1.06	1.09	1.13	1.16	1.19	1.23	1.27

^{1.} Capital project costs were provided by City Staff in source file: VWHA_Capital_Asset_Cost_of_Service_9_02_16.pdf.

^{2.} For reference purposes, the annual Construction Cost Inflation percentage is the 10 year average change in the Construction Cost Index for 2005-2015 (3.0%). Source: Engineering News Record website (http://enr.construction.com).

WASTEWATER UTILITY EXISTING DEBT OBLIGATIONS	Budget					Projected				
Annual Repayment Schedules:	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25
Grand Total: Existing Annual Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total: Existing Annual Coverage Requirement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grand Total: Existing Debt Reserve Target	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Existing Annual Debt Obligations to be Satisfied by Wastewater Rates:

Existing Annual Debt Service	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Existing Annual Coverage Requirement	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Existing Debt Reserve Target	\$ - \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-

SAN LORENZO VALLEY WATER DISTRICT ENTERPRISE WIDE COST OF SERVICE FINANCIAL STUDY - SEWER UTILITY Projected Wastewater Rates Under Existing Rate Schedule

EXHIBIT 4

Current Wastewater Rate Schedule:

Fixed Charges	Current Monthly
Sewer	\$149.00

Budget Categories		otal Cost Juirements		Flow		Stre	ngtl	n	(Customer		Basis of C	assification	
Budget Gategories		7 2017/18		(VOL)		(BOD)		(TSS)		(CA)	(VOL)	(BOD)	(TSS)	(CA)
PERSONNEL														
PERSONNEL						ı								
Salaries	\$	-	\$	-	\$	_	\$	-	\$	-	56%	22%	22%	0%
REGULAR SALARIES	\$	15,816	\$	8,857	\$	3,480	\$	3,480	\$	-	56%	22%	22%	0%
OVERTIME WAGES	\$	2,636	\$	1,450	\$	527	\$	527	\$	132	55%	20%	20%	5%
STANDBY WAGES	\$	527	\$	290	\$	105	\$	105	\$	26	55%	20%	20%	5%
Subtotal	\$	18.980	\$	10,597	\$	4.112	\$	4,112	\$	158	56%	22%	22%	1%
Benefits	'	-,	,	-,	ĺ	, i	ĺ	,	ļ ,					
MEDICAL INSURANCE	\$	_	\$	-	\$	_ !	\$	-	\$	-	55%	20%	20%	5%
DENTAL INSURANCE	\$	_	\$	_	\$	_ !	\$	_	\$	_	55%	20%	20%	5%
PERS - RETIREMENT	\$	1,371	\$	754	\$	274	\$	274	\$	69	55%	20%	20%	5%
FICA - SOCIAL SECURITY	\$,	\$	638	\$	232	\$	232	\$	58	55%	20%	20%	5%
WORKERS COMPENSATION	\$	-,	\$	-	\$		\$		\$	-	55%	20%	20%	5%
MEDICARE RETIRED MEDICAL	\$	316	\$	174	\$	63	\$	63	\$	16	55%	20%	20%	5%
SPECIAL CLOTHING	\$	-	\$		\$	-	\$	-	\$	-	56%	22%	22%	0%
Subtotal	\$	2,847	\$	1,566	\$	569	\$	569	\$	142	55%	20%	20%	5%
TOTAL: PERSONNEL	\$	21,827	\$	12,163		4,682	,	4,682	\$	301	56%	21%	21%	1%
TOTAL. I ENGONNEE	Ι Ψ	21,021	Ψ	12,100	Ψ	4,002	۳	4,002	Ψ	301	3070	2170	2170	1 70
MATERIALS & SERVICES						ŀ								
ADMIN OVERHEAD ALLOCATION FROM WATER (3)	\$	11,639	\$	6,401	\$	2,328	\$	2,328	\$	582	55%	20%	20%	5%
CONTRACT/PROFESSIONAL SERVICES	\$	53,739		29,556		10,748		10,748	\$	2,687	55%	20%	20%	5%
OUTSIDE WATER ANALYSIS	\$,	\$		\$	3,077		3.077	\$	769	55%	20%	20%	5%
ADMINISTRATION OVERHEAD	\$,	\$	0,401	\$	5,077	\$	0,077	\$	4,215	0%	0%	0%	1009
EQUIPMENT REPLACEMENT FUND	\$	7,210	\$	_	\$	_ !	\$	_	\$	7,210	55%	20%	20%	5%
UTILITIES	\$	7,376	\$	4,057	\$	1,475	Ψ	1,475	\$	369	55%	20%	20%	5%
OPERATING SUPPLIES	\$	6,322	\$	3,477		,	\$	1,264	\$	316	55%	20%	20%	5%
MAINT & OPERATIONS OF VEHICLES	\$	527	\$	290	\$	1,204	\$	1,204	\$	26	55%	20%	20%	5%
RENTAL/LEASES/PERMITS	\$	15,806	\$	8,693	\$	3,161	\$	3,161	\$	790	55%	20%	20%	5%
FACILITIES MAINTENANCE	\$	527	\$	290	\$	105	\$	105	\$	26	55%	20%	20%	5%
COMMUNICATIONS & TELEMETERING	\$		\$		\$	674		674	\$	169	55% 55%	20%	20%	5% 5%
	\$	3,372	\$	1,000	\$	0/4	\$	0/4	\$	109	0%	0%	0%	100%
OFFICE SUPPLIES (included 5078) POSTAGE	φ	-	Φ	-	Φ	-	\$	-	\$	-	0%	0%	0%	1009
	φ	-	φ	-	φ	- 00.000		-	_	0.040				
Subtotal) \$	118,905	\$	63,080	\$	22,938	\$	22,938	\$	9,949	53%	19%	19%	8%
TOTAL: MATERIALS & SERVICES GRAND TOTAL: WASTEWATER EXPENSES	\$	118,905 140,732	\$	63,080 75,243	\$	22,938 27,620	\$	22,938 27,620	\$	9,949 10,250	53% 53%	19% 20%	19% 20%	8% 7%

Budget Categories		tal Revenue quirements	Flow		Stre	ngth		Customer		Basis of Cl	lassification	
	F	Y 2017/18	(VOL))	(BOD)	(TSS)		(CA)	(VOL)	(BOD)	(TSS)	(CA)
Debt Service Payments												
Existing Annual Debt Service	\$	-	\$	- 1	\$ -	\$	-	\$ -	50%	25%	25%	0%
Future Annual Debt Service	\$	-	\$	- :	\$ -	\$	-	\$ -	50%	25%	25%	0%
Total Debt Service Payments	\$	-	\$	- 1	\$ -	\$	-	\$ -	0%	0%	0%	0%
Capital Expenditures												
Rate Funded Capital Expenses	\$	65,796	\$ 32	,898	\$ 16,449	\$ 16	,449	\$ -	50%	25%	25%	0%
TOTAL COST REQUIREMENTS	\$	206,528	\$ 108	,141	\$ 44,069	\$ 44	,069	\$ 10,250	52%	21%	21%	5%
Less: Non-Rate Revenues SEWER REVENUE												
Other Revenues	\$	-	\$	- :	\$ -	\$	-	\$ -	52%	21%	21%	5%
Sewer Service Charge	\$	-	\$	- 3	\$ -	\$	-	\$ -	52%	21%	21%	5%
NET SEWER COST REQUIREMENTS	\$	206,528	\$ 108	,141	\$ 44,069	\$ 44	,069	\$ 10,250				
Allocation of Sewer Cost Requirements		100.0%	5	2.4%	21.3%	2	1.3%	5.0%				

Net Revenue Reqt. Check from Financial Plan \$

Customer Class	Number of Accounts	Monthly Average Consumption	Estimated Annual Volume Total (HCF)	Adjusted Annual Volume Total (HCF)	Percentage of Adjusted Volume
Residential	55	292	3,505	3,505	100.0%
Grand Total:	55		3,505	3,505	100.0%
					Flow (ccf/yr.) Flow Adi. Factor

^{1.} Consumption data is based on SLVWD water customer data; several months of consumption have been approximated.

Development of the Strength Alle	ocation Factor - Se	ewer							
		E	Biochemical Oxyg	en Demand (BOI))		Total Suspended	d Solids (TSS)	
Customer Class	Annual Flow (gallons)	Average Strength Factor (mg/l) (1)	Calculated BOD (lbs./yr.)	Adjusted BOD (lbs./yr.)	Percent of Total	Average Strength Factor (mg/l) (1)	Calculated TSS (lbs./yr.)	Adjusted TSS (lbs./yr.)	Percent of Total
Residential	2,621,915	200	4,373	4,373	100.00%	200	4,373	4,373	100.00%
Grand Total:	2,621,915		4,373	4,373			4,373	4,373	
	Target, from WW	TP Data	4,373	TSS (lbs./yr.)					
				1.000	BOD Adj. Factor			1.000	TSS Adj. Factor

^{1.} Average strength factors for BOD and TSS are derived from the State Water Resources Control Board Revenue Program Guidelines, Appendix G.

Capacity Related Costs: Costs associated with the maximum demand required at one point in time or the maximum size of facilities required to meet this demand.

Development of the Customer Alle	ocation Factor - S	ewer
Customer Class	Number of Accounts	Percent of Total
Residential	55	100.00%
Grand Total:	55	100.00%

Allocation of FY 2017/18 Cost Re	İ			st Classificat							
				Treat	mei	nt		2	ı	Net Cost-of-	% of Net Cost-
Customer Class		Volume		BOD		TSS		Customer Related	R	Service equirements	of-Service Requirements
Net Cost Requirements (1)	\$	73,370	\$ 29,899		\$	29,899	\$	6,954	\$	140,124	
		52.4%		21.3%		21.3%		5.0%		100.0%	
SINGLE FAMILY	\$	73,370	\$	29,899	\$	29,899	\$	6,954	\$	140,124	100.0%
TOTAL	\$	73,370	\$	29,899	\$	29,899	\$	6,954	\$	140,124	100%

Cost requirement for each customer class is determined by multiplying the requirement from each cost classification by the allocation factors for each customer class.