Nipomo Community Services District

Report on Town Sewer System

Wastewater Rate Study

For:

Nipomo Community Services District

148 South Wilson Street Nipomo, CA 93444 (805) 929-1133

Submitted By:

Tuckfield & Associates

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August 2015

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August 29, 2015

Mr. Michael LeBrun General Manager Nipomo Community Services District 148 South Wilson Street Nipomo, CA 93444

Dear Mr. LeBrun:

I am pleased to present this report on the Wastewater Rate Study (Study) for the Nipomo Community Services District (District) Town Sewer System. The wastewater rates presented in this report have been developed based on cost of service principles and industry methods that result in fair and equitable rates for the users of the wastewater system.

The Study included a review and analysis of the Town wastewater enterprise funds, user classifications, and current rate structure. From the analyses, it is recommended that the District implement wastewater rates that achieve overall revenue increases of 3.5 percent annually on each January 1 of FY 2015-16 through FY 2019-20 to fund future obligations of the wastewater system and meet debt coverage requirements.

For the first increase, wastewater rates have been priced to bring the user classifications back to cost of service to ensure equitable rates. After this, wastewater rates increase at 3.5 percent as determined in the financial plan. Tables and figures throughout the report are provided to demonstrate the calculations.

It has been a pleasure to work with District staff during the performance of this Study. If there are any questions, please contact me at (949) 760-9454.

Very Truly Yours,

TUCKFIELD & ASSOCIATES

G. Clayton Tuckfield President/Project Consultant

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Executive Summary

System Background

The Nipomo Community Services District (District) provides wastewater collection, treatment, and disposal service to two separate service areas with independent wastewater systems. The independent systems are known as the Town Sewer System and the Blacklake Sewer System. The focus of this Wastewater Rate Study (Study) is for the Town Sewer System (System).

The Town collection system consists of 10 lift stations and about 35 miles of gravity sewer pipe ranging in size from 6 to 24 inches and 3 miles of force main ranging in size between 4 to 8 inches. The wastewater collected is treated at the Southland Wastewater Treatment Facility (Southland WWTF). The Southland WWTF has recently been upgraded and has a capacity of 0.9 mgd.

The current wastewater rate structure consists of fixed bi-monthly charges to Residential customers. Non-residential customers are charged a fixed bi-monthly charge by meter size and a volume charge for wastewater strength based on their metered water sales volume.

Customers of the System are predominately Residential (single-family and multi-family) representing over 97 percent of the number of accounts. Non-residential customers are separated by strength category (low, medium and high) with low-strength being the largest Non-residential group. Future wastewater customers are projected to grow at annual rate of 0.5 percent.

Financial Plan

The revenue and revenue requirements of the System were identified and projected to create a forward looking financial plan of the wastewater enterprise. Annual costs of the System include operation and maintenance expense (O&M), fixed asset purchases, transfer for annual capital replacement, and debt service. O&M expenses include the District's FY 2015-16 Budget expenses for the first year, then projecting future years' expenses through application of inflation factors and recognizing employee additions and other operational changes. Appendix A presents the historical and projected O&M expense detail of the System.

While the District has prepared a five-year capital improvement program (CIP) spending plan, the expenditures are paid from Fund 810 (replacement fund) and Fund 710 (capacity fund). Therefore, there is no impact to Fund 130, System operations, other than the consistent annual capital replacement transfer out of Fund 130 to Fund 810.

An analysis was performed that compared the projected revenue using the District's current wastewater rates with projected revenue requirements (costs) of the System. The analysis indicated that the current level of revenue being received is not sufficient to meet future obligations of the System during the Study period. Revenue increases of 3.5 percent annually are recommended to adequately meet future obligations, debt coverage requirements, and financial planning criteria. The wastewater financial plan is presented in Table 4.



Proposed Wastewater Rates

The proposed wastewater rates keep the current rate structure for existing customers and are updated to reflect current cost of service. In addition, a new customer group is proposed classified as Mixed Use. A discussion of the Mixed Use classification can be found on page 19.

For the first rate increase January 1, 2016, wastewater rates are adjusted to bring user classifications back to cost of service levels. For future rate adjustments, the wastewater rates are increased at 3.5 percent annually, following the increases in the financial plan. Table ES-1 presents the proposed wastewater rates to System customers.

Table ES-1 Proposed Wastewater Rates

| | | Forecast [1] | | | | | | | |
|---------------------------------|-------------|----------------------------|------------|------------|------------|------------|--|--|--|
| Description | Current | Forecast [1] FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 | | | |
| Residential Fixed Charges | | | | | | | | | |
| Single Family | \$88.32 | \$89.19 | \$92.31 | \$95.54 | \$98.89 | \$102.35 | | | |
| Multi-family | \$67.33 | \$74.39 | \$77.00 | \$79.69 | \$82.48 | \$85.37 | | | |
| Non-Residential Meter Charges | | | | | | | | | |
| Up to 1 inch | \$34.07 | \$35.22 | \$36.45 | \$37.73 | \$39.05 | \$40.41 | | | |
| 1.5 | \$98.59 | \$102.24 | \$105.82 | \$109.52 | \$113.35 | \$117.32 | | | |
| 2 | \$156.66 | \$162.55 | \$168.24 | \$174.13 | \$180.23 | \$186.53 | | | |
| 3 | \$292.16 | \$303.29 | \$313.91 | \$324.89 | \$336.26 | \$348.03 | | | |
| 4 | \$485.72 | \$504.34 | \$522.00 | \$540.27 | \$559.18 | \$578.75 | | | |
| 6 | \$969.64 | \$1,006.98 | \$1,042.22 | \$1,078.70 | \$1,116.45 | \$1,155.53 | | | |
| 8 | \$1,550.34 | \$1,610.14 | \$1,666.49 | \$1,724.82 | \$1,785.19 | \$1,847.67 | | | |
| Non-Residential Usage Rates (\$ | per HCF) | | | | | | | | |
| Low Strength | \$2.89 | \$3.44 | \$3.56 | \$3.69 | \$3.82 | \$3.95 | | | |
| Medium Strength | \$3.20 | \$3.82 | \$3.96 | \$4.09 | \$4.24 | \$4.39 | | | |
| High Strength | \$4.14 | \$4.95 | \$5.12 | \$5.30 | \$5.48 | \$5.68 | | | |
| Mixed Use Usage Rates (\$ per H | CF) | | | | | | | | |
| Standard Comm with 10% Hi | gh Strength | \$3.61 | \$3.74 | \$3.87 | \$4.00 | \$4.14 | | | |
| Standard Comm with 20% Hi | gh Strength | \$3.76 | \$3.89 | \$4.03 | \$4.17 | \$4.31 | | | |
| Standard Comm with 30% Hi | gh Strength | \$3.92 | \$4.06 | \$4.20 | \$4.35 | \$4.50 | | | |
| Standard Comm with 40% Hi | gh Strength | \$4.07 | \$4.21 | \$4.36 | \$4.51 | \$4.67 | | | |
| Standard Comm with 50% Hi | gh Strength | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.84 | | | |
| Standard Comm with 60% Hi | gh Strength | \$4.38 | \$4.53 | \$4.69 | \$4.86 | \$5.03 | | | |
| Standard Comm with 70% Hi | gh Strength | \$4.53 | \$4.69 | \$4.85 | \$5.02 | \$5.20 | | | |
| Standard Comm with 80% Hi | gh Strength | \$4.69 | \$4.85 | \$5.02 | \$5.20 | \$5.38 | | | |
| Standard Comm with 90% Hi | gh Strength | \$4.84 | \$5.01 | \$5.18 | \$5.37 | \$5.55 | | | |

[1] Rates effective Jan 1 of fiscal year.

Customer Bill Impacts

Table ES-2 presents the impacts to Residential bills for the proposed January 1, 2016 wastewater rates. The table shows that the single-family residential customer's bill will increase from \$88.32 to \$89.19, an increase of \$0.87,

or 1.0 percent. For multi-family residential, the bill will increase from \$67.33 to \$74.39, an increase of \$7.06 or 10.5 percent.

Table ES-2 Bill Impacts with Proposed Wastewater Rates

| | Jan 1, 2016 | | | | |
|----------------|-----------------|------------------|-------------------|--|--|
| Classification | Current Bill | Proposed Bill | Percent Change | | |
| Single Family | \$88.32 | \$89.19 | 1.0% | | |
| Multi-family | \$67.33 | \$74.39 | 10.5% | | |

Introduction

The Nipomo Community Services District (District) engaged Tuckfield & Associates in April of 2015 to conduct a comprehensive Wastewater Rate Study (Study). The District's wastewater facilities include two independent wastewater systems; one system serving the Town area and the other serving the Blacklake community known as the Town Sewer System and the Blacklake Sewer System respectively. The focus of this Study is for the wastewater system identified as the Town Sewer System (System).

This Study includes development of a pro forma statement of revenues and expenses of the Town wastewater enterprise, analyses to determine the cost of service of each customer class, and design of new wastewater rates and charges.

Background

The District was formed in 1965 and covers an area of approximately 4,650 acres. The District is located in the central coastal region of the state of California in San Luis Obispo County, north of Los Angeles by approximately 175 miles. The District provides wastewater service to the Town and Blacklake service areas, each served by independent wastewater systems. Revenues and obligations of each wastewater system are accounted in separate enterprise funds of the District and each relies upon user charges to meet all financial obligations.

The System consists of wastewater collection, treatment, and disposal facilities to approximately 2,700 service connections. The collection system consists of 10 lift stations and about 35 miles of gravity sewer pipe ranging in size from 6 to 24 inches and 3 miles of force main ranging in size between 4 to 8 inches.

Wastewater treatment is provided by the District's Southland Wastewater Treatment Facility (Southland WWTF). The treatment facility has recently been upgraded with several improvements following a phased implementation plan of upgrades and improvements identified in the NCSD Southland WWTF Master Plan Amendment #1. Improvements related to Phase 1 have been completed and the treatment capacity provided by the plant is currently 0.9 mgd.

The last rate study for the System was conducted in 2007. Since the last study, the District has upgraded the Southland WWTF and constructed a 24 inch trunk sewer along Frontage Road. The Southland WWTF upgrades were financed with a \$9,795,000 2012 Series Certificates of Participation (COPs) debt issue whereas the trunk sewer was financed from District funds.

Objectives

The objectives of this Study are to (1) review the current and future financial status of the Town wastewater enterprise funds, (2) make any adjustments to the revenue being received to ensure that the financial obligations are being met now and in the future, including adequate reserves and debt service coverage, and (3) design rates that generate the required revenue while being fair and equitable for its customers. Within these broad objectives, the Study further sought to provide the following.

- Revenue sufficiency to fund operating and capital needs
- Appropriate levels of operating, capital, and emergency reserves

- Cost of service allocations following appropriate standards, regulations, and guidelines
- Rates that are consistent with industry practice
- Stable revenue stream similar to existing rate structure
- Ease of understanding and administration

Scope of the Study

This Study includes the results of analyzing the wastewater enterprise funds related to the System. Historical trends were analyzed from data supplied by the District showing the number of customers, water consumption volumes, revenue, and revenue requirements.

Revenue requirements of the System include operation and maintenance expense, routine capital outlays, replacement transfers, debt service, and additions to reserves. Changing conditions such as additional facilities, system growth, employee additions/reductions, and non-recurring maintenance expenditures are recognized. Inflation for ongoing expenditures is included to reflect cost escalation.

The financial plan and rates developed herein are based on funding of the capital improvement plan as stated as well as estimates of operation and maintenance expenses developed from information provided by the District. Deviation from the financial plans, construction cost estimates and funding requirements, major operational changes, or other financial policy changes that were not foreseen, may result in the need for lower or higher revenue than anticipated. It is suggested that the District conduct an update to the Study at least every three years for prudent rate planning.

Information Used in the Study

The information used in the Study includes the following.

- 1. Wastewater system accounts, meter sizes, and water sales volumes of wastewater customers from the District's billing information system.
- 2. Historical wastewater expenses and FY 2015-16 Budget revenues, expenses, and capital spending from District documents.
- 3. Southland WWTF influent flow and strength information for the last five years provided by the District.
- 4. Current wastewater rates obtained from resolutions of the District.
- 5. Outstanding debt service schedules of the System provided by the District.
- 6. Meter capacity ratios to establish Non-residential wastewater bi-monthly fixed charges from previous System rate studies.

Financial Planning

Financial planning for the wastewater enterprise includes identifying and projecting revenues and revenue requirements of the System for a five-year planning period. Estimates of revenue from various sources are compared with the projected revenue requirements. This comparison allows the review of the adequacy of existing revenue to meet annual System obligations, and provide the basis for rate adjustments. New wastewater rates and charges are created to recover all of the District's annual operating and capital costs associated with the System.

This section discusses the current wastewater rates, user classifications, revenues and revenue requirements, planned capital improvement expenditures and financing sources, and proposed revenue adjustments.

Existing Wastewater Rates

The current wastewater rates consist of fixed and variable charges to Residential and Non-residential customer groups. Residential customers are charged a fixed bi-monthly charge while Non-residential customers are charged a fixed bi-monthly charges by meter size and volume charges for their wastewater strength classification. The historical and current water rates are presented in Table 1.

Table 1

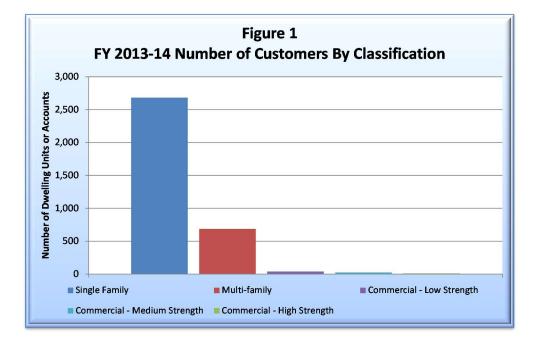
Historical and Current Bi-monthly Wastewater Rates

| Description | Jan 2007 | April 2008 | Jan 2009 | Current Jan 2010 | | | | | |
|--|----------|------------|------------|---------------------|--|--|--|--|--|
| Residential Fixed Charges | | | | | | | | | |
| Single Family | \$45.00 | \$56.53 | \$70.66 | \$88.32 | | | | | |
| Multi-family | \$34.80 | \$43.09 | \$53.86 | \$67.33 | | | | | |
| Non-Residential Fixed C | harges | | | | | | | | |
| Up to 1 inch | \$17.39 | \$21.80 | \$27.25 | \$34.07 | | | | | |
| 1 1/2 | \$49.77 | \$63.10 | \$78.87 | \$98.59 | | | | | |
| 2 | \$78.95 | \$100.26 | \$125.33 | \$156.66 | | | | | |
| 3 | \$147.09 | \$186.98 | \$233.73 | \$292.16 | | | | | |
| 4 | \$244.41 | \$310.86 | \$388.58 | \$485.72 | | | | | |
| 6 | \$487.50 | \$620.57 | \$775.71 | \$969.64 | | | | | |
| 8 | \$779.32 | \$992.22 | \$1,240.27 | \$1,550.34 | | | | | |
| Non-Residential Usage Rates (\$ per HCF) | | | | | | | | | |
| Low Strength | \$1.32 | \$1.85 | \$2.31 | \$2.89 | | | | | |
| Medium Strength | \$1.46 | \$2.05 | \$2.56 | \$3.20 | | | | | |
| High Strength | \$1.89 | \$2.65 | \$3.31 | \$4.14 | | | | | |

Wastewater User Classification

Existing User Classification

The District currently classifies customers as Residential and Non-residential. Residential is further classified as single-family or multi-family and Non-residential customers are further classified according to their discharge strength of low, medium, and high. Figure 1 shows the current number of customers by classification and also illustrates that Residential customers account for more than 97 percent of the total customers served by the System.



Growth Assumptions

Historical growth in the number of single-family customers between FY 2009-10 to FY 2013-14 indicates an overall growth rate of about 1 percent annually, with a similar growth rate occurring in the number of multi-family dwelling units. Commercial customer growth has been confined to the low-strength classification, reflecting a growth rate of about 0.5 percent annually. Based on the review, the increase in the number of Residential and Non-residential customer is projected a 0.5 percent annually to provide a conservative approach.

Wastewater Financial Plan

The District accounts for the revenue and revenue requirements of the System in three funds. Fund 130 accounts for the operations of the System while Fund 710 and Fund 810 relate to capital expansion and replacement respectively.

Wastewater Revenues

The District receives operating and capital revenue from several sources. Operating revenue is received into Fund 130 from rates and charges for wastewater service, interest income, and miscellaneous sources. Capital revenue sources include sewer capacity charges received into Fund 710.

Table 2 presents the projected revenue from current wastewater rates for the System. The revenue is projected by applying the current wastewater rates from Table 1 to the projected number of dwelling units or accounts and commercial volume.

Table 2

Projected Wastewater Revenues Using Existing Rates

| Line | | | | Forecast | | |
|------|------------------------------|-------------|-------------|-------------|-------------|-------------|
| No. | Customer Classification | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 |
| | Residential | | | | | |
| 1 | Single Family | \$1,435,023 | \$1,442,442 | \$1,449,861 | \$1,457,280 | \$1,464,699 |
| 2 | Multi-family | \$279,958 | \$281,170 | \$282,382 | \$283,594 | \$285,210 |
| | Non-Residential | | | | | |
| 3 | Commercial - Low Strength | 63,549 | 63,549 | 63,549 | 63,549 | 63,549 |
| 4 | Commercial - Medium Strength | 43,986 | 43,986 | 43,986 | 43,986 | 43,986 |
| 5 | Commercial - High Strength | 25,301 | 25,301 | 25,301 | 25,301 | 25,301 |
| 6 | Total Projected Revenue | \$1,847,817 | \$1,856,448 | \$1,865,079 | \$1,873,710 | \$1,882,745 |

Wastewater Obligations

Revenue requirements of the System include operation and maintenance expense, Transfer to Fund 810 for replacement, and annual debt service.

Operation and Maintenance Expense

Operation and maintenance expenses (O&M) are an on-going obligation of the wastewater system and such costs are normally met from wastewater service revenue. O&M includes the cost to operate and maintain the wastewater collection, treatment, and disposal facilities. Costs also include technical services, laboratory services, and other general and administrative expenses.

O&M has been projected recognizing the major expense categories of personnel services, electrical power, chemicals, and all other expenses. A review of historical expenses and expectations for future expenses indicates that annual increases of 3 percent in these major categories are reasonable. Appendix A provides the detailed projections of future O&M expense.

Figure 2 shows the percentage breakdown of O&M expense from each expense category for FY 2015-16.

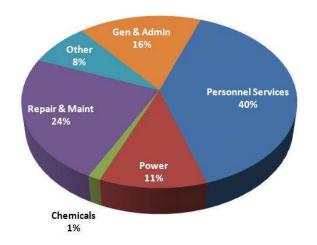


Figure 2 FY 2015-16 Projected Town Sewer System O&M

Wastewater Capital Improvement Program

The District has prepared a wastewater capital improvement program (CIP) spending plan for years FY 2015-16 through FY 2019-20 shown in Table 3. The CIP includes those improvements that are related to System expansion and others that replace or rehabilitate existing System assets. The Sewer Collection System Master Plan and the Division Street sewer line are partially related to System expansion, and are funded 25% from Fund 710 (capacity) and 75% from Fund 810 (replacement). The Southland WWTF improvement and the Prohibition Zone Sewer Extensions are both funded 100% from Fund 710.

Debt Service Requirements

The District has outstanding debt related to the System from two State Revolving Fund (SRF) loans issued in 2000 and in 2001, and a Series 2012 Certificates of Participation (COPs) debt issue. The SRF loans have terms of 20 years and the proceeds were used to finance certain treatment plant facilities necessary in those years. The COPs issued in 2012 financed upgrades to the Southland WWTF.

Annual debt service for the 2000 and 2001 SRF loans includes \$34,868 and \$42,180, respectively. The debt service for both SRF loans is paid from Fund 710. The 2012 COPs have an annual debt service payment that varies around \$517,000 with a term of 30 years and a retirement date in June 2042. Debt service on the 2012 COPs is an obligation of the System; however the debt service is currently paid by a transfer from Fund 880 to Fund 130 equal to the required payment. Fund 880 will be depleted in FY 2017-18 and Fund 130 will then be required to meet future payment obligations.

Table 3 Capital Improvement Program With Sources and Uses of Funds

| Line | | Budget | | Fore | cast | |
|------|--|-------------|-------------|-------------|-------------|-------------|
| No. | Description | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 |
| | Current Capital Improvement Projects (CIP) [1] | | | | | |
| 1 | Manhole Rehabilitation | \$90,000 | \$90,000 | \$90,000 | \$90,000 | \$0 |
| 2 | Lift Station Rehabilitiation | 100,000 | 100,000 | 100,000 | 100,000 | - |
| 3 | Prohibition Zone Sewer Extensions | - | - | 50,000 | - | - |
| 4 | Division Street, Beverly to Frontage | - | - | 390,000 | - | - |
| 5 | Southland WWTF Improvement | 100,000 | - | - | - | - |
| 6 | Sewer Collection System Master Plan | - | 200,000 | - | - | - |
| 7 | Diffuser Replacement | - | - | - | - | 150,000 |
| 8 | Proposed Asset Replacement Projects [2] | - | - | - | - | 190,000 |
| 9 | Total | \$290,000 | \$390,000 | \$630,000 | \$190,000 | \$340,000 |
| | Sources and Uses of Capital Funds | | | | | |
| 10 | Transfer In from Fund 810 | \$190,000 | \$340,000 | \$482,500 | \$190,000 | \$340,000 |
| 11 | Transfer In from Fund 710 | 100,000 | 50,000 | 147,500 | - | - |
| 12 | Capital Improvement Expansion Projects | (100,000) | (50,000) | (147,500) | - | - |
| 13 | Replacement Project Expenditures | (\$190,000) | (\$340,000) | (\$482,500) | (\$190,000) | (\$340,000) |
| 14 | Sources Less Uses | \$0 | \$0 | \$0 | \$0 | \$0 |

[1] CIP Source: FY 2015-16 Budget provided by the District.

[2] Assumed annual replacement equal to 5-year average.

Wastewater Financial Plan

A pro forma flow of funds statement has been prepared that includes revenues and revenue requirements that were identified for System operations (Fund 130). Additionally, the statement incorporates specific financial planning criteria to provide guidance to maintain the health of the fund on an on-going basis. The criteria includes maintaining an operating reserve balance, making an on-going replacement transfer, and maintaining required debt service coverage ratios required by the SRF loans and the Series 2012 COPs debt covenants.

Reserves

The target amount to be maintained as an operating reserve is expressed as a percentage, or as the number of days of operation and maintenance expense (O&M) of the enterprise. The District's policy is to maintain an operating reserve of 180 days of annual O&M expense. The operating reserve target should assist the District to maintain quality credit ratings from credit rating agencies which have provided better credit ratings to those agencies that have such reserve targets in light of recent economic conditions.

Proposed Revenue Adjustments

The pro forma statement for the System is presented in Table 4. To meet the annual obligations and the financial planning criteria set for the financial plan, it is proposed that revenue be increased by 3.5 percent annually each January 1 of the Study period beginning January 1, 2016.

Table 4 Wastewater Financial Plan Projected Sources and Uses of Funds

| Line | | | | Forecast | | |
|----------|---|--------------------------|-------------------|------------------------|------------------------|----------------------|
| No. | Description | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 |
| 1 | Sources of Funds Sewer Revenues, Existing Rates [1] Additional Sewer Rate Revenue | \$1,847,800 | \$1,856,400 | \$1,865,100 | \$1,873,700 | \$1,882,700 |
| | Annualized Revenue Date of Increase Increase Fiscal Year | | | | | |
| 2 | 3.5% Jan 1 FY 2015-16 | \$32,300 | \$65,000 | \$65,300 | \$65,600 | \$65,900 |
| 3 | 3.5% Jan 1 FY 2016-17 | | \$33,600 | \$67,600 | \$67,900 | \$68,200 |
| 4 | 3.5% Jan 1 FY 2017-18 | | | \$35,000 | \$70,300 \$26,400 | \$70,600 |
| 5 6 | 3.5% Jan 1 FY 2018-19 3.5% Jan 1 FY 2019-20 | | | | \$36,400 | \$73,100 \$37,800 |
| 7 | Total Additional Sewer Rate Revenue | \$32,300 | \$98,600 | \$167,900 | \$240,200 | \$315,600 |
| 8 | Interest Earnings [2] | \$2,800 | \$4,000 | \$4,700 | \$4,500 | \$4,100 |
| 9 | Transfer In from Fund 880 [3] | \$517,000 | \$517,500 | \$198,500 | \$0 | \$0 |
| 10 | Miscellaneous Revenues | \$500 | \$500 | \$500 | \$500 | \$500 |
| 11 | Total Sources of Funds | \$2,400,400 | \$2,477,000 | \$2,236,700 | \$2,118,900 | \$2,202,900 |
| | Uses of Funds | | | | | |
| 12 | Operation and Maintenance Expense | \$1,225,600 | \$1,172,000 | \$1,262,900 | \$1,300,500 | \$1,339,900 |
| 13 | Replacement Capital Transfer to Fund 810 | \$395,000 | \$395,000 | \$395,000 | \$395,000 | \$395,000 |
| 14 | Capital Outlay | \$157,700 | \$29,500 | \$30,400 | \$31,300 | \$32,200 |
| 15 | Existing Debt Service [4] | \$517,000 | \$517,500 | \$517,600 | \$517,400 | \$520,800 |
| 16 | Total Uses of Funds | \$2,295,300 | \$2,114,000 | \$2,205,900 | \$2,244,200 | \$2,287,900 |
| 17 | Additions (reductions) to cash | \$105,100 | \$363,000 | \$30,800 | (\$125,300) | (\$85,000) |
| | Available Reserves (including capital funds) | | | | | |
| 18 | FY beginning available cash [5] | \$850,000 | \$955,100 | \$1,318,100 | \$1,348,900 | \$1,223,600 |
| 19 | Additions (reductions) | \$105,100 | \$363,000 | \$30,800 | (\$125,300) | (\$85,000) |
| 20 | FY ending available reserves | \$955,100 | \$1,318,100 | \$1,348,900 | \$1,223,600 | \$1,138,600 |
| 21 | Target Reserves [6] | \$690,000 | \$600,000 | \$650,000 | \$670,000 | \$690,000 |
| 22 | Above (below) Target | \$265,100 | \$718,100 | \$698,900 | \$553,600 | \$448,600 |
| | Debt Service Coverage | A 4 040 065 | M4 057 055 | \$640.00 | \$6000 000 | \$600 05 |
| 23 | Net Revenues [7] | \$1,310,960 \$504,040 | \$1,057,302 | \$843,802 \$504,640 | \$886,002 \$504,440 | \$930,302 |
| 24 25 | Annual Debt Service [8] Coverage | \$594,049 221% | \$594,549 178% | \$594,649 142% | \$594,449 149% | \$597,849 156% |
| 20 | overage | 221% | 170% | 142% | 149% | 150% |

[1] Projected using the existing rates. Changes in rate based revenues is due to customer and demand growth.

[2] Interest earnings on the average fund balance calculated at 0.35%.

[3] Sinking fund transfer from Fund 880 used to pay for 2012 COPs until the funds are depleted.

[4] Debt service on the 2012 Certificates of Participation only.

[5] The available FY 2015-16 cash balance from the current District Budget.

[6] Target reserve estimated at 180 days of annual O&M expense including capital outlay.

[7] Includes capacity charges and interest income on all wastewater funds less O&M and capital outlay.

[8] Includes 2012 COPs and SRF debt service paid from Fund 710 - Sewer Capacity Fund.

A graphical depiction of the financial plan is presented in Figure 3 below, expanded for a 10-year period. The figure shows that current revenues (without increases) are sufficient initially to meet annual obligations due to



the transfer from Fund 880 to pay for the 2012 COPs debt service. However, once the funds from Fund 880 are depleted, the 3.5 percent revenue increases are required to meet the obligations of the fund. With the revenue increases, the fund meets the planning criteria near the end of the 10-year period.

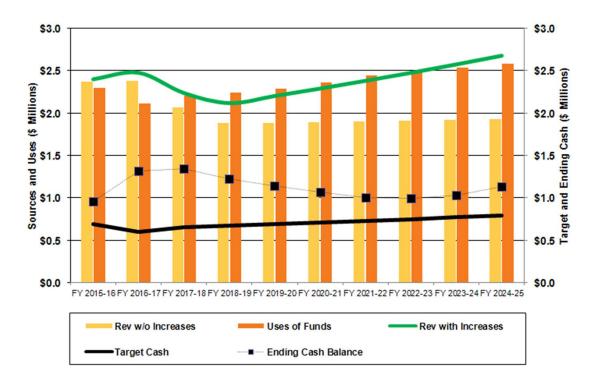


Figure 3 Wastewater Financial Plan

Cost of Service

This section of the report discusses the allocation of the System's operating and capital costs to the users of the wastewater system. Once cost responsibility is assigned to each customer classification, the current revenue received from each classification can be compared with its cost of service to evaluate any inequities of the current rate structure and rates, which ultimately provides the basis for proposed rate adjustments.

Costs of Service to be Allocated

The annual revenue requirement for a representative year in the Study period is called the Test Year, and the annual costs for this year are defined as the cost of providing service. For this Study the Test Year is FY 2015-16, and the annual costs of the wastewater system for this year will be used to evaluate the fairness and equity of the current wastewater rates and will form the basis for the proposed rates.

The cost of service consists of O&M expense, costs associated with annual replacement, and other capital costs. To allocate the costs of providing service to the users of the wastewater system, costs need to first be allocated to wastewater parameters.

Cost Allocation to Wastewater Parameters

The cost allocation parameters for wastewater service are wastewater flow, BOD (bio-chemical oxygen demand), and SS (suspended solids), capacity, customer, and collection costs. Test Year operating and capital costs are assigned to each parameter based on the functional operation and design of the facilities.

The total cost to be recovered in FY 2015-16 from the users of the wastewater system is presented in Table 5. The annual revenue requirement for FY 2015-16 is allocated to each wastewater parameter based on the percentage of annual costs allocated to each parameter from a detailed review of expenses. The allocation of Test Year revenue requirement is used in calculating the unit costs of service.

Table 5

Summary of Revenue Requirement Allocation

| Line | | _ | Stren | gth | | | | | | | |
|------|-----------------------------------|-------------|-----------|-----------|-----------|-----------|----------|------------|--|--|--|
| No. | Description | Total | Flow | BOD | SS | Capacity | Customer | Collection | | | |
| 1 | Revenue Requirement Allocation | 100.0% | 5.9% | 5.7% | 5.7% | 37.3% | 1.9% | 43.5% | | | |
| | Annual Revenue Requirement | | | | | | | | | | |
| 2 | FY 2015-16 | \$1,912,500 | \$113,095 | \$109,770 | \$109,770 | \$712,614 | \$35,642 | \$831,608 | | | |

Unit Costs of Service

Each customer classification's responsibility for a portion of cost of service is established through developing unit costs of service for each of the wastewater parameters identified above. Costs of service are then distributed to

each user classification by identifying how each group uses the wastewater system. Use of the wastewater system by each customer classification is determined by developing units of service.

The units of service for each customer classification are provided in Table 6 below. The units of service for wastewater flow were projected from an analysis of the wastewater treatment plant influent flow information for FY 2013-14. The table does not describe any responsibility for infiltration/inflow (I/I) because the AECOM Southland Wastewater Treatment Master Plan Amendment #1 found that there was no indication of significant I/I influence on the WWTF flows.

Table 6 FY 2015-16 Units of Service

| Line | | Water | Return | Contributed | | : | Strength | | | | |
|------|------------------------------|-------------|--------|-------------|-------|-------|----------|---------|------------|-----------|------------|
| No. | Customer Class | Consumption | | Volume | BOD | SS | BOD | SS | Capacity | Customer | Collection |
| | | HCF | % | HCF | mg/l | mg/l | lbs | lbs | Eq. Meters | Eq. Bills | HCF/Day |
| | Residential | | | | | | | | | | |
| 1 | Single Family | 439,950 | 49% | 217,048 | 410 | 410 | 555,507 | 555,507 | 2,708 | 16,248 | 595 |
| 2 | Multi-family | 52,782 | 76% | 40,318 | 410 | 410 | 103,188 | 103,188 | 693 | 4,158 | 110 |
| | Non-Residential | | | | | | | | | | |
| 3 | Commercial - Low Strength | 16,739 | 85% | 14,268 | 410 | 410 | 36,516 | 36,516 | 76 | 234 | 39 |
| 4 | Commercial - Medium Strength | 10,676 | 85% | 9,100 | 660 | 660 | 37,491 | 37,491 | 49 | 144 | 25 |
| 5 | Commercial - High Strength | 5,253 | 85% | 4,477 | 1,650 | 1,160 | 46,118 | 32,422 | 18 | 60 | 12 |
| 6 | Total System | 525,400 | | 285,211 | | - | 778,819 | 765,124 | 3,544 | 20,844 | 781 |

Table 7 presents the unit costs of providing service for the System. Unit costs are determined by taking the operating and capital costs allocated to each parameter from Table 5 and dividing those costs by the units of service from Table 6.

Table 7 FY 2015-16 Development of Unit Costs

| Line | | | - | Stren | gth | | | |
|------|---|-------------|-----------------|-----------------|-----------------|------------------------|---------------------|-----------------------|
| No. | Description | Total | Flow | BOD | SS | Capacity | Customer | Collection |
| 1 | Total Cost of Service | \$1,912,500 | \$113,095 | \$109,770 | \$109,770 | \$712,614 | \$35,642 | \$831,608 |
| 2 | Units of Service | | 285,211 | 778,819 | 765,124 | 3,544 | 20,844 | 781 |
| 3 | Unit Costs of Service Units of Measure | | \$0.3965 HCF | \$0.1409 lbs | \$0.1435 lbs | \$201.05 Eq. Meters | \$1.71 Eq. Bills | \$1,064.25 HCF/Day |

User Class Costs

The unit costs from Table 7 are applied to each customer classifications' flow, strength, and customer units of service from Table 6 to establish user class costs. The cost responsibility of each class is summarized in Table 8 below, with detailed cost assignment provided in Appendix A.



Table 8 Comparison of FY 2015-16 Cost of Service with Projected Revenue Using Current Rates

| Line No. | Customer Class | COS Allocation | Projected Revenue ^[1] | Indicated Revenue Increase | Percent Revenue Increase |
|-------------|------------------------------|-------------------|-------------------------------------|----------------------------------|--------------------------------|
| | Residential | | | | |
| 1 | Single Family | \$1,449,157 | \$1,435,000 | \$14,157 | 1.0% |
| 2 | Multi-family | \$309,332 | \$280,000 | \$29,332 | 10.5% |
| | Non-Residential | | | | |
| 3 | Commercial - Low Strength | \$73,365 | \$63,500 | \$9,865 | 15.5% |
| 4 | Commercial - Medium Strength | \$50,983 | \$44,000 | \$6,983 | 15.9% |
| 5 | Commercial - High Strength | \$29,664 | \$25,300 | \$4,364 | 17.2% |
| 6 | Total System | \$1,912,500 | \$1,847,800 | \$64,700 | 3.5% |

^[1] Projected revenue using the existing rates.

From inspection of Table 8, the Residential classifications have the largest assignment of costs and are responsible for 92 percent of the total cost of service. Additionally, the table shows the overall increase in revenue required of 3.5 percent, to be derived from the user classes in varying percentages.

Figure 4 compares the current revenue received from each user class with the allocated cost of service from Table 8. As shown in the figure, Residential customers dominate the responsibility for the cost of providing service. The difference in the column heights between revenue and cost of service (blue vs. red) indicates how well a user classification's current rates are recovering the cost of service.

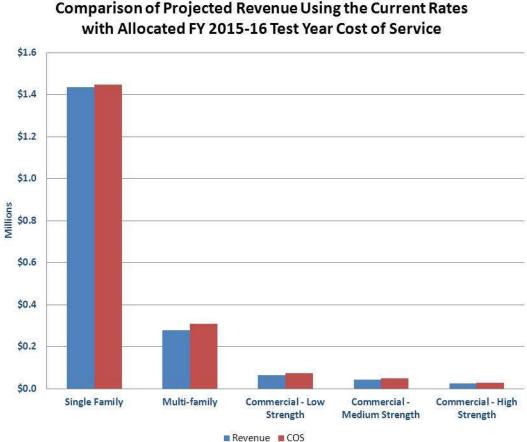


Figure 4 Comparison of Projected Revenue Using the Current Rates

Rate Design

The cost of service analyses described in the previous section provides the basis for wastewater rate design. The emphasis on the design of rates is to achieve fairness, and ensuring that each customer class pays its fair share of costs. Rates should be simple to administer, easy to understand, and comply with regulatory requirements.

The inequities in the current wastewater rates, shown in Table 8, are corrected with the design of the proposed wastewater rates. This section describes how wastewater rates and charges are designed and also includes the proposed schedule of wastewater rates for implementation.

Residential Customers

The current rate structure for single-family and multi-family customers is bi-monthly flat charges. This rate structure provides a stable revenue stream for the utility at a time when water sales and discharge volumes are uncertain for the District. As noted in the cost of service analyses, the Residential classes are responsible for about 92 percent of the cost of service.

The proposed wastewater rates for Residential customers maintain the current rate structure and are designed as bi-monthly flat rates charged to each dwelling unit. Table 9 provides the calculations of the bi-monthly fixed charge for the Test Year cost of service. The total cost of service of each Residential class is divided by the number of projected dwelling units for FY 2015-16.

Table 9 Design of Residential Bi-monthly Fixed Charge

| Customer Classification | Total Cost of Service | Number of Dwelling Units | Bi-monthly Fixed Charge |
|-------------------------|--------------------------|--------------------------------|-------------------------------|
| Single Family | \$1,449,157 | 2,708 | \$89.19 |
| Multi-family | \$309,332 | 693 | \$74.39 |

Non-residential Customers

The current Non-residential rate structure consists of bi-monthly fixed charges by meter size and uniform volume rates by strength category. The design of proposed Non-residential wastewater rates follows similar rate setting practices as the current rate structure.

The proposed fixed charges recover the capacity and customer costs of service. Capacity costs are recovered based on the demand placed on the System from Non-residential customers, which is reflected by the meter size installed at the customer location. Customer costs are recovered based on the number of bills issued. Table 10 below presents the design of the proposed bi-monthly fixed charges for Non-residential customers for FY 2015-16.

Non-residential volume rates are designed to recover the costs of service related to flow, BOD, SS, and collection wastewater parameters. These costs of service are recovered through a uniform volume charge unique to each strength category. The costs are divided by the projected FY 2015-16 water sales volume (billable volume) of each classification to yield a charge per hundred cubic feet (\$/HCF). The volume charges increase with higher strength user classes because the cost to treat wastewater from those customers is greater due to their higher strength loadings, defined in Table 6. The design of the proposed Non-residential volume rates for FY 2015-16 are presented in Table 11.

| Meter Size | Bi-monthly Capacity Charge ^[1] | Meter Capacity Ratio | Bi-monthly Meter Charge | Bi-monthly Customer Charge ^[1] | Total Bi-monthly Charge |
|---------------|---|----------------------------|-------------------------------|---|-------------------------------|
| inches | | | | | |
| Up to 1 inch | \$33.51 | 1.0 | \$33.51 | \$1.71 | \$35.22 |
| 1.5 | \$33.51 | 3.0 | \$100.53 | \$1.71 | \$102.24 |
| 2.0 | \$33.51 | 4.8 | \$160.84 | \$1.71 | \$162.55 |
| 3.0 | \$33.51 | 9.0 | \$301.58 | \$1.71 | \$303.29 |
| 4.0 | \$33.51 | 15.0 | \$502.63 | \$1.71 | \$504.34 |
| 6.0 | \$33.51 | 30.0 | \$1,005.27 | \$1.71 | \$1,006.98 |
| 8.0 | \$33.51 | 48.0 | \$1,608.43 | \$1.71 | \$1,610.14 |

Table 10 Design of Bi-monthly Non-Residential Fixed Charges FY 2015-16

^[1] FromTable 7.

Table 11 Design of Non-Residential Volume Rates FY 2015-16

| | Flow, BOD | | |
|------------------------------|------------|----------|-----------|
| | SS, & Coll | Billable | Commodity |
| Customer Classification | Costs | Volume | Rate |
| | | HCF | \$/HCF |
| Commercial - Low Strength | \$57,645 | 16,739 | \$3.44 |
| Commercial - Medium Strength | \$40,804 | 10,676 | \$3.82 |
| Commercial - High Strength | \$25,982 | 5,253 | \$4.95 |

Mixed Use Customers

All Non-residential users of the System are billed based upon their proportional use of the wastewater system as measured by their metered water use and strength category as determined by the District Engineer. Where residential and commercial users share a water meter and a common sewer connection, a new wastewater user category is proposed where the connection is classified as a Mixed Use customer. The Mixed Use customer has wastewater flows and strengths that are a combination of the residential and commercial customers using the common sewer. To better reflect the cost of serving these mixed use connections, a Mixed Use rate has been developed for implementation by the District. The wastewater from a Mixed Use customer will have strengths that could range from standard commercial strength (Low Strength, similar to residential strengths) to strength concentrations reflecting restaurants and bakeries (High Strength). A Strength Factor is proposed to account for the proportion of the commercial square footage that is occupied by a High Strength customer as a percentage of the total square footage being served by the sewer connection.

Table 12 below presents the proposed Mixed Use customer volume rates. A Mixed Use customer will be charged the rate per HCF for the water consumption read through the meter plus the bi-monthly fixed charge based on the meter size.

| Mixed Use Customer Class | sification | n (Definition) | Mixed Use Strength Factor | Mixed Use Rate per HCF of Water Use |
|--------------------------|--------------|------------------------------|---------------------------------|---|
| | | | | \$/HCF |
| Standard Commercial with | 10.0% | High Strength Square Footage | 1.16 | \$3.61 |
| Standard Commercial with | 20.0% | High Strength Square Footage | 1.32 | \$3.76 |
| Standard Commercial with | 30.0% | High Strength Square Footage | 1.48 | \$3.92 |
| Standard Commercial with | 40.0% | High Strength Square Footage | 1.64 | \$4.07 |
| Standard Commercial with | 50.0% | High Strength Square Footage | 1.80 | \$4.22 |
| Standard Commercial with | 60.0% | High Strength Square Footage | 1.96 | \$4.38 |
| Standard Commercial with | 70.0% | High Strength Square Footage | 2.12 | \$4.53 |
| Standard Commercial with | 80.0% | High Strength Square Footage | 2.28 | \$4.69 |
| Standard Commercial with | 90.0% | High Strength Square Footage | 2.44 | \$4.84 |

Table 12 Mixed Use Customer Wastewater Rates FY 2015-16

Note: District Engineer to estimate the percentage of square footage that is occupied by the High Strength customer(s).

Example Mixed Use Commercial Calculation

An example calculation of a bi-monthly charge for a 2-inch meter Mixed Use connection is provided below.

Characteristics: Mixed Use Commercial, 2-inch meter, 100 HCF bi-monthly water consumption

Commercial Customer A - Professional Office, 3,000 sf Commercial Customer B - Bakery, 2,000 sf Percent High Strength = 2,000 sf / 5,000 sf = 40% Mixed Use Bi-monthly Charge = 100 HCF * \$4.07/HCF + \$162.55 (2-inch meter charge) = \$569.55 bi-monthly

Strength Factor

Where there are questions regarding the percentage of the commercial square footage that is occupied by a High Strength customer(s), the District Engineer may make a direct calculation of the Strength Factor and the associated Mixed Use rate. However, it is preferred that once the calculation is made that the Mixed Use customer will be assigned to a classification provided in Table 12. Table 13 below provides the method to directly perform the calculation, however the Overall Strength Factor should not be less than 1.0.

Table 13 Example Direct Calculation of Strength Factor and Mixed Use Customer Wastewater Rate FY 2015-16

| | Sq. Ft. | Strength | Assigned | Assigned | |
|---|------------|-----------------------|------------|--------------|--|
| Tenant Mix (Description) | Allocation | Factor ^[1] | BOD | SS | |
| | | | mg/l | mg/l | |
| Multifamily Units | 50% | 1.00 | 410 | 410 | |
| Chamber of Commerce | 10% | 0.62 | 215 | 132 | |
| Bakery | 20% | 2.46 | 1,650 | 990 | |
| General Office | 20% | 0.62 | 215 | 132 | |
| Total Building Use | 100% | - | | | |
| Standard Strength | | | 410 | 410 | |
| Overall Strength Factor ^[2] | | 1.18 | | | |
| | | Flow | BOD | SS | |
| Cost Allocation to Parameter [| 3] | 34.0% 33.0% | | 33.0% | |
| | Mixed Use | Standard Rate | | Mixed Use | |
| | Strength | per HCF of | Customer | Rate per HCF | |
| | Factor | | Charge | of Water Use | |
| | | \$/HCF [4] | \$/HCF [5] | \$/HCF [6] | |
| Mixed Use Rate | 1.18 | \$ 0.96 | \$ 2.49 | \$3.63 | |

[1] Flow % + BOD% * Assigned BOD/Standard BOD + SS% * Assigned SS/Standard SS.

[2] Weighted average of square footage allocation and Strength Factor.

[3] From Table 5 of Wastewater Rate Study.

[4] Rate per HCF using standard BOD and SS strengths adjusted to charge on water use.

[5] Unit Customer cost from Table 7 of Wastewater Rate Study adjusted to charge on water use.

[6] Strength Factor * Standard Rate per HCF of Water Use + Customer Charge.

Currently the District has a single Mixed Use customer. However, more such customer types are expected to be connecting to the System in the future.

Proposed Wastewater Rates

Table 14 presents the proposed wastewater rates for the System for the next five years. The table presents the current rates, the costs of service rates for implementation January 1, 2016, and future rates that escalate from FY 2015-16 by the percentages identified in Table 4 of 3.5 percent annually.

Table 14

Proposed Wastewater Rates

| | | Forecast [1] | | | | |
|---------------------------------|-------------|--------------|------------|------------|------------|------------|
| Description | Current | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 |
| Residential Fixed Charges | | | | | | |
| Single Family | \$88.32 | \$89.19 | \$92.31 | \$95.54 | \$98.89 | \$102.35 |
| Multi-family | \$67.33 | \$74.39 | \$77.00 | \$79.69 | \$82.48 | \$85.37 |
| Non-Residential Meter Charges | | | | | | |
| Up to 1 inch | \$34.07 | \$35.22 | \$36.45 | \$37.73 | \$39.05 | \$40.41 |
| 1.5 | \$98.59 | \$102.24 | \$105.82 | \$109.52 | \$113.35 | \$117.32 |
| 2 | \$156.66 | \$162.55 | \$168.24 | \$174.13 | \$180.23 | \$186.53 |
| 3 | \$292.16 | \$303.29 | \$313.91 | \$324.89 | \$336.26 | \$348.03 |
| 4 | \$485.72 | \$504.34 | \$522.00 | \$540.27 | \$559.18 | \$578.75 |
| 6 | \$969.64 | \$1,006.98 | \$1,042.22 | \$1,078.70 | \$1,116.45 | \$1,155.53 |
| 8 | \$1,550.34 | \$1,610.14 | \$1,666.49 | \$1,724.82 | \$1,785.19 | \$1,847.67 |
| Non-Residential Usage Rates (\$ | per HCF) | | | | | |
| Low Strength | \$2.89 | \$3.44 | \$3.56 | \$3.69 | \$3.82 | \$3.95 |
| Medium Strength | \$3.20 | \$3.82 | \$3.96 | \$4.09 | \$4.24 | \$4.39 |
| High Strength | \$4.14 | \$4.95 | \$5.12 | \$5.30 | \$5.48 | \$5.68 |
| Mixed Use Usage Rates (\$ per H | ICF) | | | | | |
| Standard Comm with 10% Hi | gh Strength | \$3.61 | \$3.74 | \$3.87 | \$4.00 | \$4.14 |
| Standard Comm with 20% Hi | gh Strength | \$3.76 | \$3.89 | \$4.03 | \$4.17 | \$4.31 |
| Standard Comm with 30% Hi | gh Strength | \$3.92 | \$4.06 | \$4.20 | \$4.35 | \$4.50 |
| Standard Comm with 40% Hi | gh Strength | \$4.07 | \$4.21 | \$4.36 | \$4.51 | \$4.67 |
| Standard Comm with 50% Hi | gh Strength | \$4.22 | \$4.37 | \$4.52 | \$4.68 | \$4.84 |
| Standard Comm with 60% Hi | gh Strength | \$4.38 | \$4.53 | \$4.69 | \$4.86 | \$5.03 |
| Standard Comm with 70% Hi | gh Strength | \$4.53 | \$4.69 | \$4.85 | \$5.02 | \$5.20 |
| Standard Comm with 80% Hi | gh Strength | \$4.69 | \$4.85 | \$5.02 | \$5.20 | \$5.38 |
| Standard Comm with 90% Hi | gh Strength | \$4.84 | \$5.01 | \$5.18 | \$5.37 | \$5.55 |

[1] Rates effective Jan 1 of fiscal year.

Table 15 demonstrates that if the proposed rates for FY 2015-16 were applied to the projected number of dwelling units, customers, and water sales volume, that 100 percent cost recovery would be achieved.

| | | | Proposed Rates | | | | | | Percent |
|------|------------------------------|-------------|----------------------|--------|----------|----------|----------|-------------|----------|
| Line | | COS | Fixed ^[1] | Volume | Dwelling | Equiv. | Billable | Total | Cost |
| No. | Customer Class | Allocation | Charge | Charge | Units | Customer | Volume | Revenue | Recovery |
| | Residential | | | \$/HCF | | | HCF | | |
| 1 | Single Family | \$1,449,157 | \$89.19 | | 2,708 | | | \$1,449,157 | 100.0% |
| 2 | Multi-family | \$309,332 | \$74.39 | | 693 | | | \$309,332 | 100.0% |
| | Non-Residential | | | | | | | | |
| 3 | Commercial - Low Strength | \$73,365 | \$35.22 | \$3.44 | | 446.4 | 16,739 | \$73,365 | 100.0% |
| 4 | Commercial - Medium Strength | \$50,983 | \$35.22 | \$3.82 | | 289.0 | 10,676 | \$50,983 | 100.0% |
| 5 | Commercial - High Strength | \$29,664 | \$35.22 | \$4.95 | | 104.5 | 5,253 | \$29,664 | 100.0% |
| 6 | Total System | \$1,912,500 | | | | | | \$1,912,500 | |

Table 15

Comparison of FY 2015-16 Cost of Service with Revenue Using Proposed Rates

^[1] Charge is bi-monthly.

Impact Analysis

An impact analysis was performed to evaluate the change in customer bills that would occur from the implementation of the proposed January 1, 2016 wastewater rates. The impact to bills of each customer classification is provided in Table 16. For Residential customers, the bills shown in Table 16 are also readily identified from the schedule of proposed wastewater rates because they are flat rates. For the first increase of January 1, 2016, the single-family customer bill will increase by 1.0 percent whereas the multi-family customer bill will increase by 10.5 percent. Bills increase at 3.5 percent after the first increase.

The impact to Non-residential bills depends upon the meter size and strength category. Using the average water consumption of each meter size, the bi-monthly bills were calculated as shown in Table 16. For the first increase of January 1, 2016, the change in Non-residential customer bills range from an increase of 14.0 percent for a 3 inch meter low-strength customer to an increase of 17.8 percent for a 1.5 inch high-strength customer. Appendix B provides additional example Non-residential bill calculations at various consumption levels for 1 inch and 2 inch meter sizes, with 1 inch being the most common.

| | Average | Current Bill | | | | n 1 FY 20 Proposed | | |
|---|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------------------------|-------------------------|
| Classification | Bi-monthly Water Use | Service Charge | Volume Charge | Current Bill | Service Charge | Volume Charge | Proposed Bill | Percent Change |
| Residential Single Family | HCF | Charge | Charge | \$88.32 | Charge | Charge | \$89.19 | 1.0% |
| Multi-family Non-Residential - 1" Meter | | | | \$67.33 | | | \$74.39 | 10.5% |
| Commercial - Low Strength Commercial - Medium Strength Commercial - High Strength | 50 70 35 | \$34.07 \$34.07 \$34.07 | \$144.50 \$224.00 \$144.90 | \$178.57 \$258.07 \$178.97 | \$35.22 \$35.22 \$35.22 | \$172.19 \$267.54 \$173.12 | \$207.41 \$302.76 \$208.34 | 16.1% 17.3% 16.4% |
| Non-Residential - 1.5" Meter Commercial - Low Strength Commercial - Medium Strength Commercial - High Strength | 80 65 200 | \$98.59 \$98.59 \$98.59 | \$231.20 \$208.00 \$828.00 | \$329.79 \$306.59 \$926.59 | \$102.24 \$102.24 \$102.24 | \$275.50 \$248.43 \$989.24 | \$377.74 \$350.67 \$1,091.47 | 14.5% 14.4% 17.8% |
| Non-Residential - 2" Meter Commercial - Low Strength Commercial - Medium Strength Commercial - High Strength | 170 100 200 | \$156.66 \$156.66 \$156.66 | \$491.30 \$320.00 \$828.00 | | \$162.55 \$162.55 \$162.55 | \$585.44 \$382.21 \$989.24 | \$747.99 \$544.76 \$1,151.79 | 15.4% 14.3% 17.0% |
| Non-Residential - 3" Meter Commercial - Low Strength | 200 | \$292.16 | \$578.00 | \$870.16 | \$303.29 | \$688.75 | \$992.04 | 14.0% |

Table 16 Bill Impacts with Proposed Wastewater Rates

Appendix A Technical Appendix

Detailed O&M projections and Cost of Service Allocation tables are provided in Appendix A.



Appendix A-1 Historical and Projected Operation and Maintenance Expense, Replacement and Capital Outlay

| | Historical | | | Estimated | Budget | | Fore | cast | | |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Description | FY 2010-11 | FY 2011-12 | FY 2012-13 | FY 2013-14 | FY 2014-15 | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 |
| OPERATION AND MAINTENANCE | | | | | | | | | | |
| Personnel Services [1] | \$133,531 | \$140,860 | \$148,543 | \$223,313 | \$303,500 | \$403,400 | \$427,700 | \$496,400 | \$511,200 | \$526,800 |
| Electricity - Pumps and Blowers | 125,160 | 128,616 | 100,177 | 131,872 | 124,500 | 130,000 | 133,900 | 137,900 | 142,000 | 146,300 |
| Chemicals | \$5,523 | \$7,958 | \$8,977 | \$0 | \$3,000 | \$15,000 | \$15,500 | \$16,000 | \$16,500 | \$17,000 |
| Lab Tests and Sampling | 29,840 | 36,527 | 32,899 | 34,948 | 32,000 | 35,000 | 36,100 | 37,200 | 38,300 | 39,400 |
| Operating Supplies | \$25,129 | \$21,565 | \$15,741 | \$18,231 | \$35,000 | \$40,000 | \$41,200 | \$42,400 | \$43,700 | \$45,000 |
| Outside Services | 1,279 | 1,497 | 2,128 | 26,694 | 60,000 | 33,000 | 34,000 | 35,000 | 36,100 | 37,200 |
| Permits and Operating Fees | \$5,468 | \$12,015 | \$9,044 | \$10,342 | \$13,000 | \$13,000 | \$13,400 | \$13,800 | \$14,200 | \$14,600 |
| Repairs and Maintenance | 84,859 | 68,198 | 53,052 | 42,234 | 40,000 | 275,000 | 180,300 | 185,700 | 191,300 | 197,000 |
| Other Operations and Maintenance Exp | \$48,766 | \$46,484 | \$39,899 | \$27,023 | \$26,900 | \$31,470 | \$32,600 | \$33,700 | \$34,800 | \$35,900 |
| Total O&M Expense | \$459,555 | \$463,720 | \$410,460 | \$514,657 | \$637,900 | \$975,870 | \$914,700 | \$998,100 | \$1,028,100 | \$1,059,200 |
| GENERAL AND ADMINISTRATIVE | | | | | | | | | | |
| Personnel Services | \$141,559 | \$150,296 | \$148,816 | \$89,261 | \$57,765 | \$58,175 | \$59,900 | \$61,700 | \$63,400 | \$65,600 |
| Computer Expense | 11,742 | 10,062 | 13,354 | 15,834 | 13,000 | 15,300 | 15,800 | 16,300 | 16,800 | 17,300 |
| Newsletters and Mailers | \$0 | \$0 | \$1,215 | \$623 | \$1,000 | \$2,520 | \$2,600 | \$2,700 | \$2,800 | \$2,900 |
| Postage | 4,768 | 5,281 | 5,875 | 6,783 | 6,700 | 6,870 | 7,100 | 7,300 | 7,500 | 7,700 |
| Public Notices | \$0 | \$0 | \$825 | \$92 | \$0 | \$1,000 | \$1,000 | \$1,000 | \$1,000 | \$1,000 |
| Other General and Administrative | 35,256 | 34,940 | 30,340 | 31,934 | 64,411 | 64,395 | 66,300 | 68,100 | 70,000 | 72,000 |
| Transfers - Administration | \$90,005 | \$92,814 | \$80,644 | \$86,265 | \$78,949 | \$101,513 | \$104,600 | \$107,700 | \$110,900 | \$114,200 |
| Total G&A Expenses | \$283,330 | \$293,393 | \$281,069 | \$230,792 | \$221,825 | \$249,773 | \$257,300 | \$264,800 | \$272,400 | \$280,700 |
| Total O&M Expenses | \$742,885 | \$757,113 | \$691,529 | \$745,449 | \$859,725 | \$1,225,643 | \$1,172,000 | \$1,262,900 | \$1,300,500 | \$1,339,900 |
| Replacement Capital Transfer to Fund 810 | 383,500 | 395,000 | 395,000 | 395,000 | 395,000 | 395,000 | 395,000 | 395,000 | 395,000 | 395,000 |
| Capital Outlay | 0 | 0 | 22,666 | 32,500 | 33,200 | 157,700 | 29,500 | 30,400 | 31,300 | 32,200 |
| Total O&M and Capital Expenses | \$1,126,385 | \$1,152,113 | \$1,109,195 | \$1,172,949 | \$1,287,925 | \$1,778,343 | \$1,596,500 | \$1,688,300 | \$1,726,800 | \$1,767,100 |

[1] Includes a Utility Worker upgrade to Utility Operator in FY 2016-17 and a new Utility Worker in FY 2017-18.

Appendix A-2 Allocation of FY 2015-16 Costs to Customer Classes

| Line | | Allocated | | Stren | gth | | | |
|------|----------------------------|-------------|-----------|-----------|-----------|------------|-----------|------------|
| No. | Description | Total Cost | Flow | BOD | SS | Capacity | Customer | Collection |
| 1 | Unit Costs of Service | | \$0.3965 | \$0.1409 | \$0.1435 | \$201.05 | \$1.71 | \$1,064.25 |
| | Units of Measure | | HCF | lbs | lbs | Eq. Meters | Eq. Bills | HCF/Day |
| | Single Family | | | | | | | |
| 2 | Units of Service | | 217,048 | 555,507 | 555,507 | 2,708 | 16,248 | 595 |
| 3 | Allocated Cost of Service | \$1,449,157 | \$86,067 | \$78,296 | \$79,697 | \$544,453 | \$27,783 | \$632,862 |
| | Multi-family | | | | | | | |
| 4 | Units of Service | | 40,318 | 103,188 | 103,188 | 693 | 4,158 | 110 |
| 5 | Allocated Cost of Service | \$309,332 | \$15,987 | \$14,544 | \$14,804 | \$139,330 | \$7,110 | \$117,557 |
| | Commercial - Low Strength | | | | | | | |
| 6 | Units of Service | | 14,268 | 36,516 | 36,516 | 76 | 234 | 39 |
| 7 | Allocated Cost of Service | \$73,365 | \$5,658 | \$5,147 | \$5,239 | \$15,320 | \$400 | \$41,601 |
| | Commercial - Medium Stren | igth | | | | | | |
| 8 | Units of Service | • | 9,100 | 37,491 | 37,491 | 49 | 144 | 25 |
| 9 | Allocated Cost of Service | \$50,983 | \$3,608 | \$5,284 | \$5,379 | \$9,932 | \$246 | \$26,533 |
| | Commercial - High Strength | | | | | | | |
| 10 | Units of Service | | 4,477 | 46,118 | 32,422 | 18 | 60 | 12 |
| 11 | Allocated Cost of Service | \$29,664 | \$1,775 | \$6,500 | \$4,652 | \$3,579 | \$103 | \$13,055 |
| 12 | Total Costs of Service | \$1,912,500 | \$113,095 | \$109,770 | \$109,770 | \$712,614 | \$35,642 | \$831,608 |

Appendix B

Non-residential Bill Impacts

This section provides additional calculations of Non-residential customer bills at various water volumes.



Appendix B-1 Non-Residential Customer Bill Impacts - 1" Meter

| Description | Current | Jan 1 FY 2015-16 | Percent Increase | Jan 1 FY 2016-17 | Percent Increase |
|------------------------------|--------------|---------------------|---------------------|---------------------|---------------------|
| Low Strength with 1"meter | Current | | | | |
| 25% of Avg Bill: 10 HCF | - \$62.97 | \$69.66 | 10.6% | \$72.09 | 3.5% |
| 50% of Avg Bill: 30 HCF | \$120.77 | \$138.53 | 14.7% | \$143.38 | 3.5% |
| Avg Bill: 50 HCF | \$178.57 | \$207.41 | 16.1% | \$214.66 | 3.5% |
| 125% of Avg Bill: 60 HCF | \$207.47 | \$241.84 | 16.6% | \$250.31 | 3.5% |
| 150% of Avg Bill: 80 HCF | \$265.27 | \$310.72 | 17.1% | \$321.59 | 3.5% |
| Medium Strength with 1"meter | | | | | |
| 25% of Avg Bill: 20 HCF | \$98.07 | \$111.66 | 13.9% | \$115.57 | 3.5% |
| 50% of Avg Bill: 40 HCF | \$162.07 | \$188.10 | 16.1% | \$194.68 | 3.5% |
| Avg Bill: 70 HCF | \$258.07 | \$302.76 | 17.3% | \$313.36 | 3.5% |
| 125% of Avg Bill: 90 HCF | \$322.07 | \$379.20 | 17.7% | \$392.48 | 3.5% |
| 150% of Avg Bill: 110 HCF | \$386.07 | \$455.65 | 18.0% | \$471.59 | 3.5% |
| High Strength with 1"meter | | | | | |
| 25% of Avg Bill: 10 HCF | \$75.47 | \$84.68 | 12.2% | \$87.64 | 3.5% |
| 50% of Avg Bill: 20 HCF | \$116.87 | \$134.14 | 14.8% | \$138.84 | 3.5% |
| Avg Bill: 35 HCF | \$178.97 | \$208.34 | 16.4% | \$215.63 | 3.5% |
| 125% of Avg Bill: 40 HCF | \$199.67 | \$233.07 | 16.7% | \$241.22 | 3.5% |
| 150% of Avg Bill: 50 HCF | \$241.07 | \$282.53 | 17.2% | \$292.42 | 3.5% |

a. New rates effective Jan 1 of fiscal year.

Appendix B-2 Non-Residential Customer Bill Impacts - 2" Meter

| | | len 1 | Dereent | lan 1 | Dereent |
|------------------------------|------------|------------|----------|------------|----------|
| D | | Jan 1 | Percent | Jan 1 | Percent |
| Description | Current | FY 2015-16 | Increase | FY 2016-17 | Increase |
| Low Strength with 2"meter | _ | | | | |
| 25% of Avg Bill: 40 HCF | \$272.26 | \$300.30 | 10.3% | \$310.81 | 3.5% |
| 50% of Avg Bill: 90 HCF | \$416.76 | \$472.49 | 13.4% | \$489.03 | 3.5% |
| Avg Bill: 170 HCF | \$647.96 | \$747.99 | 15.4% | \$774.17 | 3.5% |
| 125% of Avg Bill: 210 HCF | \$763.56 | \$885.74 | 16.0% | \$916.74 | 3.5% |
| 150% of Avg Bill: 260 HCF | \$908.06 | \$1,057.92 | 16.5% | \$1,094.95 | 3.5% |
| Medium Strength with 2"meter | _ | | | | |
| 25% of Avg Bill: 30 HCF | \$252.66 | \$277.21 | 9.7% | \$286.92 | 3.5% |
| 50% of Avg Bill: 50 HCF | \$316.66 | \$353.66 | 11.7% | \$366.03 | 3.5% |
| Avg Bill: 100 HCF | \$476.66 | \$544.76 | 14.3% | \$563.83 | 3.5% |
| 125% of Avg Bill: 130 HCF | \$572.66 | \$659.42 | 15.2% | \$682.50 | 3.5% |
| 150% of Avg Bill: 150 HCF | \$636.66 | \$735.86 | 15.6% | \$761.62 | 3.5% |
| High Strength with 2"meter | _ | | | | |
| 25% of Avg Bill: 50 HCF | \$363.66 | \$409.86 | 12.7% | \$424.21 | 3.5% |
| 50% of Avg Bill: 100 HCF | \$570.66 | \$657.17 | 15.2% | \$680.17 | 3.5% |
| Avg Bill: 200 HCF | \$984.66 | \$1,151.79 | 17.0% | \$1,192.10 | 3.5% |
| 125% of Avg Bill: 250 HCF | \$1,191.66 | \$1,399.10 | 17.4% | \$1,448.07 | 3.5% |
| 150% of Avg Bill: 300 HCF | \$1,398.66 | \$1,646.41 | 17.7% | \$1,704.03 | 3.5% |

a. New rates effective Jan 1 of fiscal year.

Appendix C

Finance & Audit Committee Rates Option

This section discusses the conclusion of the Nipomo Community Services District Finance & Audit Committee review of the Wastewater Rate Study.



Alternative Wastewater Rates Option

The Nipomo Community Services District Finance and Audit (F&A) Committee met to review and discuss the results and findings of the Wastewater Rate Study. The conclusion of the meeting was to request an additional wastewater rates option for presentation to the Board of Directors at the time that the Wastewater Rate Study report is presented. The alternative wastewater rates option is provided in this Appendix C.

The option includes revising Table 4 of this report to allow 3.2 percent annual revenue increases instead of the 3.5 percent increases included in the Study. The impact of this change is presented in the following tables and figures in Appendix C and includes Table 4a, Figure 3a, and an alternative five-year wastewater rate schedule Table 14a. Results of this alternative are discussed in the bullet points below.

- Table 4a indicates that the fund balance available in Fund 130 (line 20) would be nearly equal to the District Policy Target Fund Balance of 180 days of annual O&M expense (line 21) in FY 2022-23 through FY 2024-25 though the fund balance is less than the target in the last two years.
- Figure 3a graphically indicates that the projected fund balance (dotted black line) declines until it reaches the Target Fund Balance (solid black line) near the end of the ten year period.
- Table 14a provides the schedule of Proposed Wastewater Rates for a 3.2 percent revenue increase scenario.

Table 4a Wastewater Financial Plan Projected Sources and Uses of Funds

| Line | | | | | | Forecas | t | | | | |
|----------------------------|---|---|--|--|--|--|--|--|--|--|--|
| No. | Description | 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 |
| 1 | Sources of Funds Sewer Revenues, Existing Rates [1] Additional Sewer Sales Revenue | \$1,847,800 | \$1,856,400 | \$1,865,100 | \$1,873,700 | \$1,882,700 | \$1,891,800 | \$1,900,800 | \$1,909,800 | \$1,918,900 | \$1,927,900 |
| | Annualized Revenue Date of Increase Increase Fiscal Year | | | | | | | | | | |
| 2 3 4 5 6 | 3.2% Jan 1 FY 2015-16 3.2% Jan 1 FY 2016-17 3.2% Jan 1 FY 2017-18 3.2% Jan 1 FY 2018-19 3.2% Jan 1 FY 2019-20 3.2% Jan 1 FY 2020-21 3.2% Jan 1 FY 2021-22 3.2% Jan 1 FY 2022-23 3.2% Jan 1 FY 2023-24 | \$29,600 | \$59,400 \$30,700 | \$59,700 \$61,600 \$31,800 | \$60,000 \$61,900 \$63,900 \$33,000 | \$60,200 \$62,200 \$64,200 \$66,200 \$34,200 | \$60,500 \$62,500 \$64,500 \$66,500 \$68,700 \$35,400 | \$60,800 \$62,800 \$64,800 \$66,900 \$69,000 \$71,200 \$36,700 | \$61,100 \$63,100 \$65,100 \$67,200 \$69,300 \$71,500 \$73,800 \$38,100 | \$61,400 \$63,400 \$65,400 \$67,500 \$69,700 \$71,900 \$74,200 \$76,600 \$39,500 | \$61,700 \$63,700 \$65,700 \$70,000 \$72,200 \$74,500 \$76,900 \$79,400 |
| 7 | 3.2% Jan 1 FY 2024-25 Total Additional Sewer Rate Revenue | \$29,600 | \$90,100 | \$153,100 | \$218,800 | \$287,000 | \$358,100 | \$432,200 | \$509,200 | \$589,600 | \$41,000 \$672,900 |
| 8 9 10 11 | Interest Earnings [2] Transfer In from Fund 880 [3] Miscellaneous Revenues Total Sources of Funds | \$2,800 \$517,000 \$500 \$2,397,700 | \$4,000 \$517,500 \$500 \$2,468,500 | \$4,600 \$198,500 \$500 \$2,221,800 | \$4,400 \$0 \$500 \$2,097,400 | \$3,900 \$0 \$500 \$2,174,100 | \$3,500 \$0 \$500 \$2,253,900 | \$3,200 \$0 \$500 \$2,336,700 | \$2,800 \$0 \$500 \$2,422,300 | \$2,700 \$0 \$500 \$2,511,700 | \$2,700 \$0 \$500 \$2,604,000 |
| | Uses of Funds | φ2,397,700 | φ2,400,500 | φ2,221,000 | φ2,097,400 | φ2,174,100 | φ2,200,900 | φ2,550,700 | ψΖ,4ΖΖ,300 | φ2,511,700 | φ2,004,000 |
| 12 13 14 15 16 | Operation and Maintenance Expense Replacement Capital Transfer to Fund 810 Capital Outlay Existing Debt Service [4] Total Uses of Funds | \$1,225,600 \$395,000 \$157,700 \$517,000 \$2,295,300 | \$1,172,000 \$395,000 \$29,500 \$517,500 \$2,114,000 | \$1,262,900 \$395,000 \$30,400 \$517,600 \$2,205,900 | \$1,300,500 \$395,000 \$31,300 \$517,400 \$2,244,200 | \$1,339,900 \$395,000 \$32,200 \$520,800 \$2,287,900 | \$1,379,600 \$395,000 \$33,200 \$553,800 \$2,361,600 | \$1,420,200 \$395,000 \$34,200 \$595,200 \$2,444,600 | \$1,463,200 \$395,000 \$35,200 \$594,600 \$2,488,000 | \$1,506,700 \$395,000 \$36,300 \$596,400 \$2,534,400 | \$1,552,100 \$395,000 \$37,400 \$597,100 \$2,581,600 |
| 17 | Additions (reductions) to cash | \$102,400 | \$354,500 | \$15,900 | (\$146,800) | (\$113,800) | (\$107,700) | (\$107,900) | (\$65,700) | (\$22,700) | \$22,400 |
| 18 19 20 | Available Reserves (including capital funds) FY beginning available cash [5] Additions (reductions) FY ending available reserves | \$850,000 \$102,400 \$952,400 | \$952,400 \$354,500 \$1,306,900 | \$1,306,900 \$15,900 \$1,322,800 | \$1,322,800 (\$146,800) \$1,176,000 | \$1,176,000 (\$113,800) \$1,062,200 | \$1,062,200 (\$107,700) \$954,500 | \$954,500 (\$107,900) \$846,600 | \$846,600 (\$65,700) \$780,900 | \$780,900 (\$22,700) \$758,200 | \$758,200 \$22,400 \$780,600 |
| 21 22 | Target Reserves [6] Above (below) Target | \$690,000 \$262,400 | \$600,000 \$706,900 | \$650,000 \$672,800 | \$670,000 \$506,000 | \$690,000 \$372,200 | \$710,000 \$244,500 | \$730,000 \$116,600 | \$750,000 \$30,900 | \$770,000 (\$11,800) | \$790,000 (\$9,400) |
| 23 24 25 | Debt Service Coverage Net Revenues [7] Annual Debt Service [8] Coverage | \$1,308,260 \$594,049 220% | \$1,048,802 \$594,549 176% | \$828,902 \$594,649 139% | \$864,502 \$594,449 145% | \$901,502 \$597,849 151% | \$941,202 \$595,980 158% | \$983,202 \$637,380 154% | \$1,025,902 \$594,600 173% | \$1,080,084 \$596,400 181% | \$1,126,984 \$597,100 189% |

[1] Projected using the existing rates. Changes in rate based revenues is due to customer and demand growth.

[2] Interest earnings on the average fund balance calculated at 0.35%.

[3] Sinking fund transfer from Fund 880 used to pay for 2012 COPs until the funds are depleted.

[4] Debt service on the 2012 Certificates of Participation only.

[5] The available FY 2015-16 cash balance from the current District Budget.

[6] Target reserve estimated at 180 days of annual O&M expense including capital outlay.

[7] Includes capacity charges and interest income on all wastewater funds less O&M and capital outlay.

[8] Includes 2012 COPs and SRF debt service paid from Fund 710 - Sewer Capacity Fund.

Figure 3a Wastewater Financial Plan with 3.2 Percent Revenue Increases

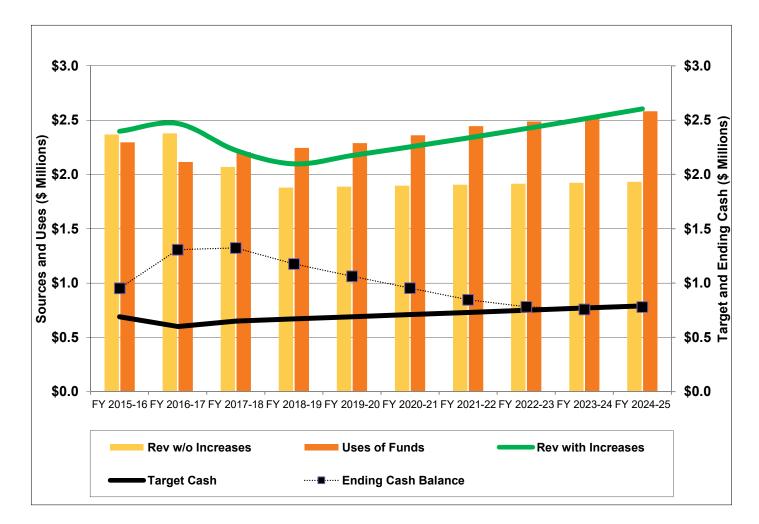


Table 14a Proposed Wastewater Rates

| | | Forecast [1] | | | | |
|---------------------------------|-------------|--------------|------------|------------|------------|------------|
| Description | Current | FY 2015-16 | FY 2016-17 | FY 2017-18 | FY 2018-19 | FY 2019-20 |
| Residential Fixed Charges | | | | | | |
| Single Family | \$88.32 | \$88.93 | \$91.77 | \$94.71 | \$97.74 | \$100.87 |
| Multi-family | \$67.33 | \$74.18 | \$76.55 | \$79.00 | \$81.53 | \$84.14 |
| Non-Residential Meter Charges | | | | | | |
| Up to 1 inch | \$34.07 | \$35.12 | \$36.24 | \$37.40 | \$38.60 | \$39.83 |
| 1.5 | \$98.59 | \$101.94 | \$105.20 | \$108.57 | \$112.04 | \$115.63 |
| 2 | \$156.66 | \$162.08 | \$167.26 | \$172.62 | \$178.14 | \$183.84 |
| 3 | \$292.16 | \$302.40 | \$312.08 | \$322.07 | \$332.37 | \$343.01 |
| 4 | \$485.72 | \$502.87 | \$518.96 | \$535.57 | \$552.70 | \$570.39 |
| 6 | \$969.64 | \$1,004.03 | \$1,036.16 | \$1,069.31 | \$1,103.53 | \$1,138.85 |
| 8 | \$1,550.34 | \$1,605.42 | \$1,656.80 | \$1,709.81 | \$1,764.53 | \$1,820.99 |
| Non-Residential Usage Rates (\$ | | | | | | |
| Low Strength | \$2.89 | \$3.43 | \$3.54 | \$3.66 | \$3.77 | \$3.89 |
| Medium Strength | \$3.20 | \$3.81 | \$3.93 | \$4.06 | \$4.19 | \$4.32 |
| High Strength | \$4.14 | \$4.93 | \$5.09 | \$5.25 | \$5.42 | \$5.59 |
| Mixed Use Usage Rates (\$ per H | CF) | | | | | |
| Standard Comm with 10% Hi | gh Strength | \$3.60 | \$3.72 | \$3.83 | \$3.96 | \$4.08 |
| Standard Comm with 20% Hi | gh Strength | \$3.75 | \$3.87 | \$3.99 | \$4.12 | \$4.25 |
| Standard Comm with 30% Hi | gh Strength | \$3.90 | \$4.02 | \$4.15 | \$4.29 | \$4.42 |
| Standard Comm with 40% Hi | gh Strength | \$4.06 | \$4.19 | \$4.32 | \$4.46 | \$4.61 |
| Standard Comm with 50% Hi | gh Strength | \$4.21 | \$4.34 | \$4.48 | \$4.63 | \$4.78 |
| Standard Comm with 60% Hi | gh Strength | \$4.37 | \$4.51 | \$4.65 | \$4.80 | \$4.96 |
| Standard Comm with 70% Hi | gh Strength | \$4.52 | \$4.66 | \$4.81 | \$4.97 | \$5.13 |
| Standard Comm with 80% Hi | gh Strength | \$4.67 | \$4.82 | \$4.97 | \$5.13 | \$5.30 |
| Standard Comm with 90% Hi | gh Strength | \$4.83 | \$4.98 | \$5.14 | \$5.31 | \$5.48 |

[1] Rates effective Jan 1 of fiscal year.