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51-1060-00	,100,	288.16
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02-1500-00	,101,	22.25

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51-1060-00	,103,	50
		8050

<<INCLUDES 2ND WATER AND DANVILLE CUSTOMERS

UTRWD DOE BRANCH BREAKDOWN

G/L #		BUDGET	COMMENTS
202-522-09-5740	$	612,313.00	THIS BUDGET COVERS THE 325,850 FIXED O&M CHARGES
202-522-09-5741	$	471,514.00	COVERS DEBT SERVICE BUT WILL HAVE TO BE AMENDED
202-522-09-5742	$	347,505.00	COVERS DEBT SERVICE

; PLUS THE VOLUME CHARGE WHICH VARIES EACH MONTH
TO 446,255 SINCE WE DID NOT HAVE THE EXACT NUMBER AT BUDGET TIME

CITY OF CELINA
WATER AND SEWER REVENUES

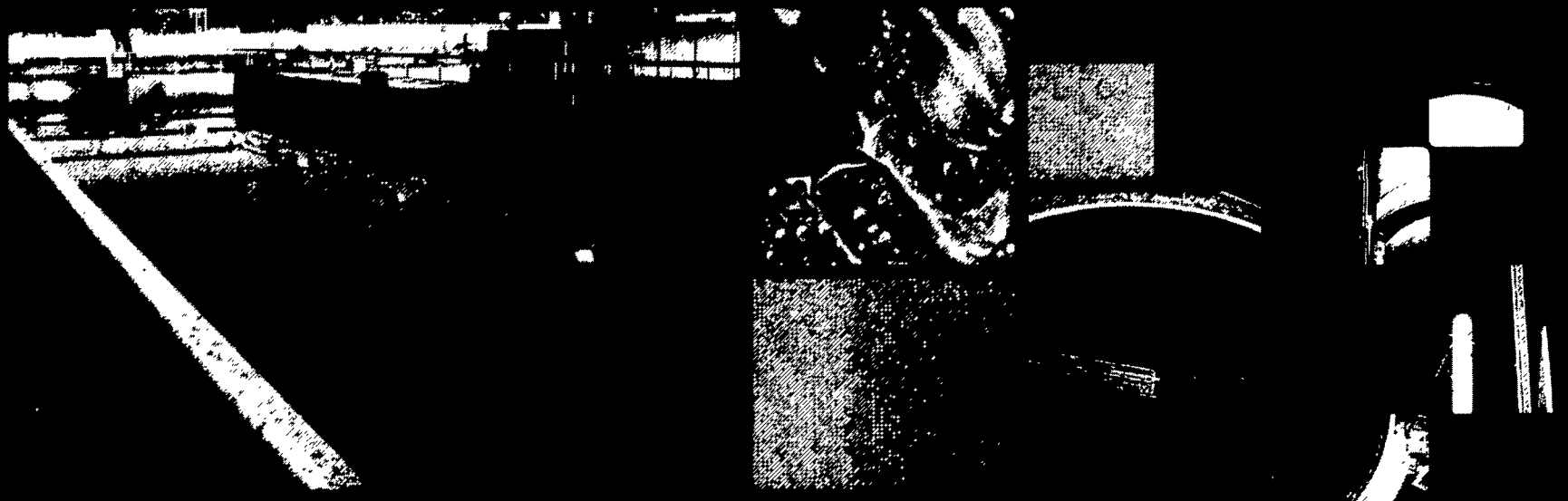
ACCT# ACCOUNT NAME

	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
FY 2015-2016	<----------2015---------->			<----------		
400-06-4200 WATER SALES	$ 243,681	$ 267,408	$ 214,932	$ 219,458	$ 268,447	$ 228,549
400-06-4210 SEWER SALES	$ 89,287	$ 130,975	$ 115,872	$ 118,965	$ 133,197	$ 118,039
FY 2014-2015	<----------2014---------->			<----------		
400-06-4200 WATER SALES	$ 183,758	$ 222,702	$ 178,848	$ 157,078	$ 192,746	$ 152,862
400-06-4210 SEWER SALES	$ 81,602	$ 104,299	$ 89,561	$ 87,722	$ 96,326	$ 91,607
FY 2013-2014	<----------2013---------->			<----------		
400-06-4200 WATER SALES	$ 198,696	$ 204,433	$ 131,975	$ 298,080	$ 55,924	$ 163,545
400-06-4210 SEWER SALES	$ 83,419	$ 87,765	$ 73,454	$ 76,267	$ 88,402	$ 77,786
FY2012-2013	<----------2012---------->			<----------		
400-06-4200 WATER SALES	$ 169,799	$ 287,301	$ 203,234	$ 145,490	$ 146,722	$ 140,159
400-06-4210 SEWER SALES	$ 54,850	$ 86,977	$ 89,070	$ 74,085	$ 78,787	$ 71,106

23393

23393

	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
--2016----------							SALES
	$ 300,027	$ 262,453	$ 288,032				**$ 2,292,987**
	$ 146,216	$ 143,145	$ 154,110				**$ 1,149,806**
--2015----------							
	$ 183,575	$ 173,095	$ 251,022	$ 358,585	$ 607,507	$ 827,304	**$ 3,489,083**
	$ 102,723	$ 100,607	$ 124,366	$ 127,380	$ 177,873	$ 225,004	**$ 1,409,070**
--2014----------							
	$ 228,488	$ 242,717	$ 238,396	$ 256,337	$ 286,764	$ 475,628	**$ 2,780,983**
	$ 101,006	$ 107,328	$ 99,760	$ 106,272	$ 111,659	$ 147,284	**$ 1,160,403**
--2013----------							
	$ 156,124	$ 224,785	$ 211,366	$ 302,439	$ 355,587	$ 429,625	**$ 2,772,632**
	$ 76,516	$ 94,159	$ 86,634	$ 110,510	$ 105,168	$ 132,911	**$ 1,060,773**



August 24, 2017

City of Celina, Texas
Water and Wastewater Study

NewGen Strategies & Solutions

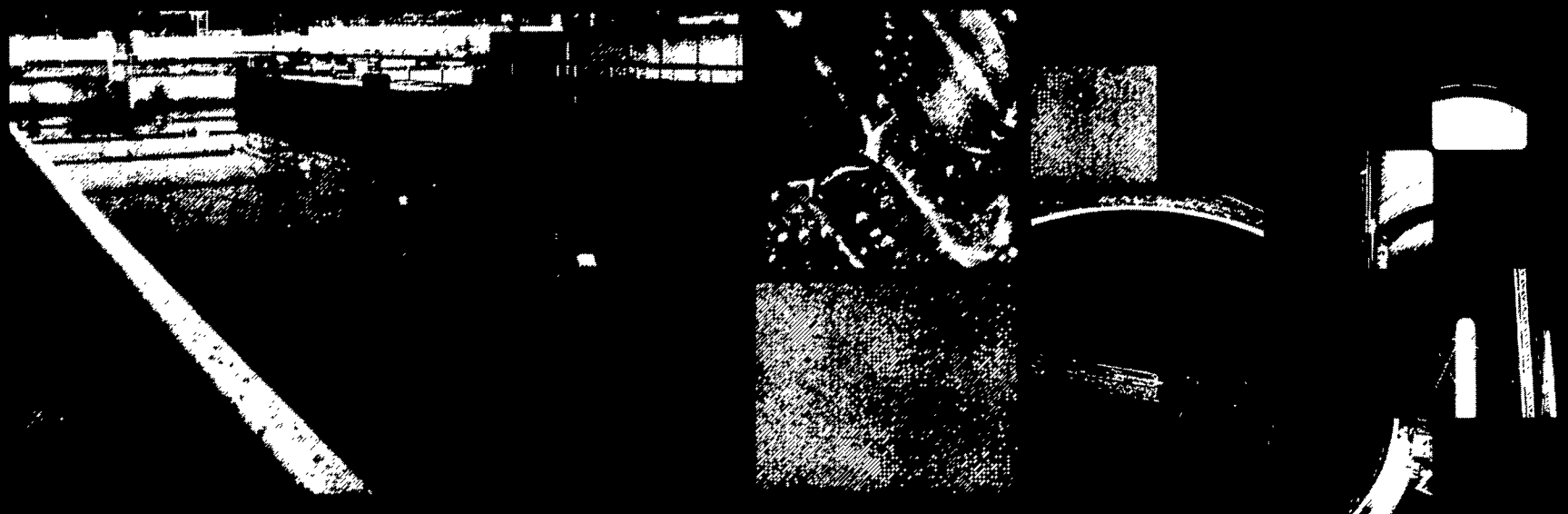
23395

ECONOMICS STRATEGY STAKEHOLDERS SUSTAINABILITY www.newgenstrategies.net

23395

Key Assumptions

- Growth mirrors master plan provided by Garver
- No use of impact fees or developers contributions
- Assumes projects are funded in the fiscal year prior to the trigger fiscal year of each project
- Interest rate on new debt equals 3.53% in FY18; To be conservative, rates were increased 0.29% each year to reach 5% by FY23
- Maintained current water and wastewater rate structure design



Scenario 1

Rates increased annually from FY18 through FY23

NewGen Strategies & Solutions

23397

ECONOMICS STRATEGY STAKEHOLDERS SUSTAINABILITY www.newgenstrategies.net

23397

Projected CIP – Scenario 1: Assuming Annual Rate Increases

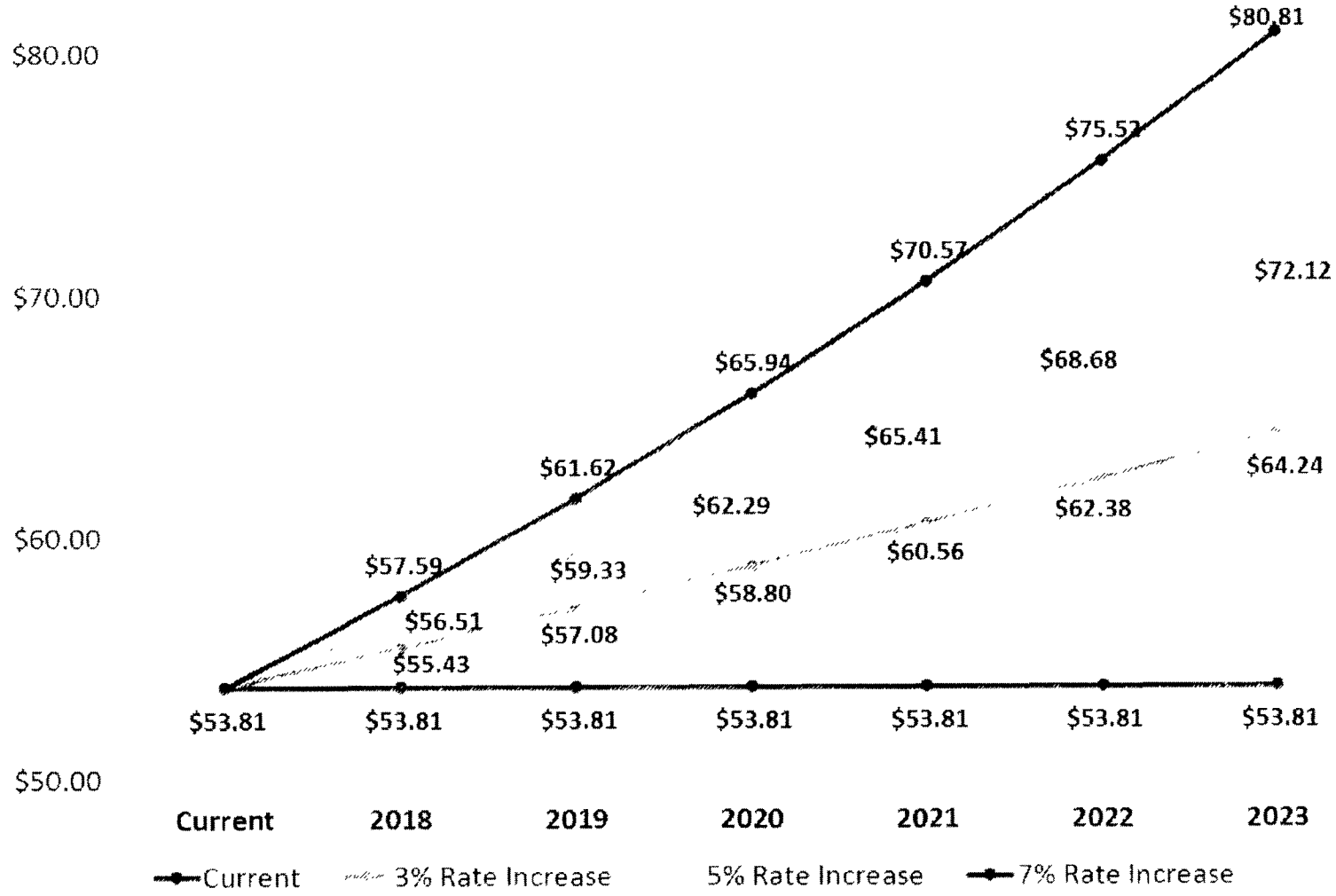
Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total
Projected CIP[1]	$60,016,000	$89,913,000	$10,444,000	$12,833,000	$0	$0	$173,206,000
Projected Debt to be Issued for CIP[2]							
No Increase	$14,863,676	$18,662,891	$22,156,989	$20,124,047	$13,775,924	$0	[illegible]
3% Increase	24,342,466	25,589,151	31,650,765	30,877,481	26,306,332	0	138,766,195
5% Increase	29,833,931	30,447,588	38,569,656	39,065,404	36,285,781	0	174,[illegible]
7% Increase	35,405,991	35,613,863	46,082,291	48,289,213	47,673,152	0	$213,064,510

Notes:
1) Assumes CIP Projects are funded in the fiscal year prior to the fiscal year in which they are to be triggered.
2) Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23398

23398

Water Bill – Residential Inside 1"
5,000 gallons

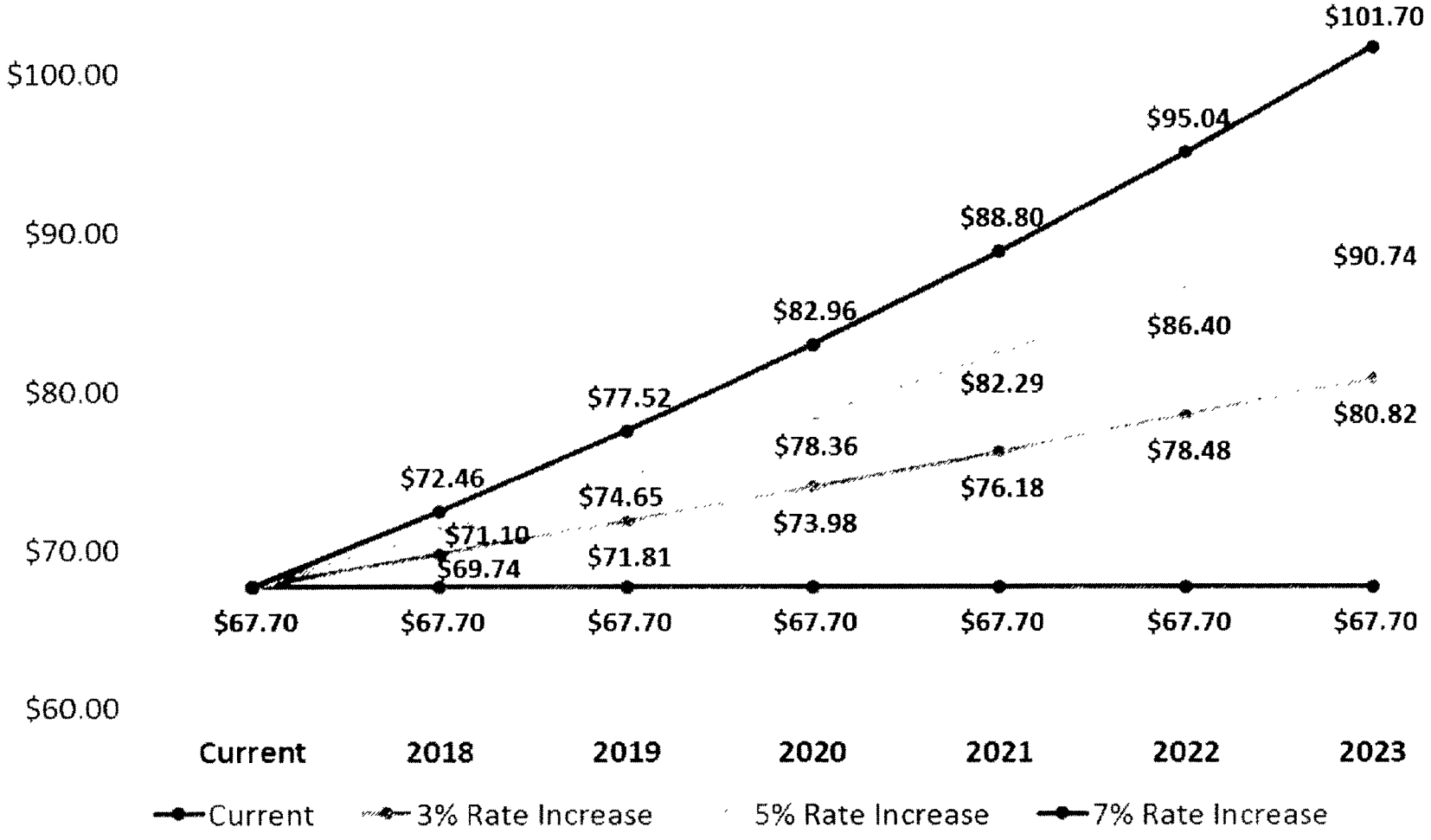


23399

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23.

23399

Water Bill – Residential Inside 1"
7,800 gallons

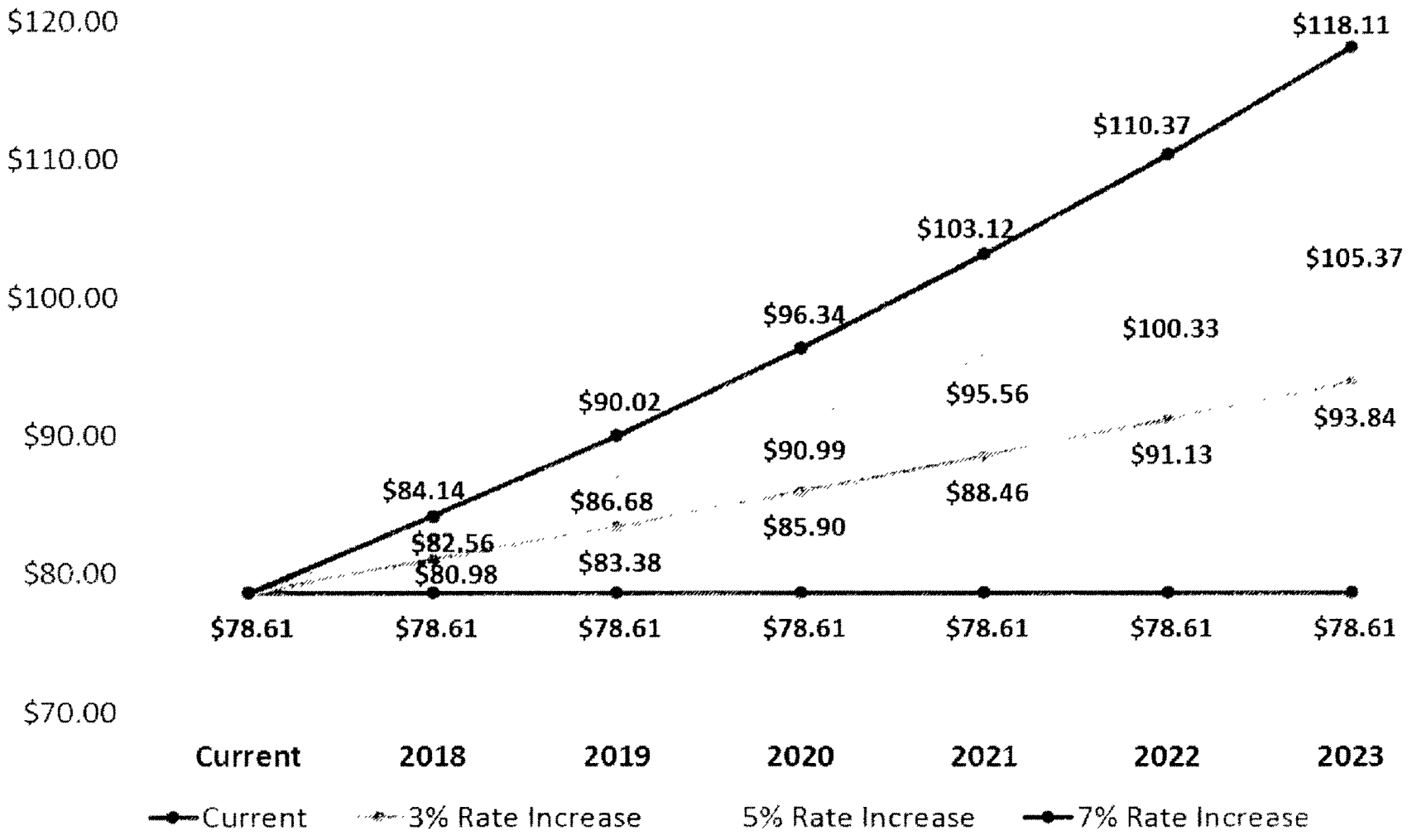


23480

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23.

23400

Water Bill – Residential Inside 1"
10,000 gallons

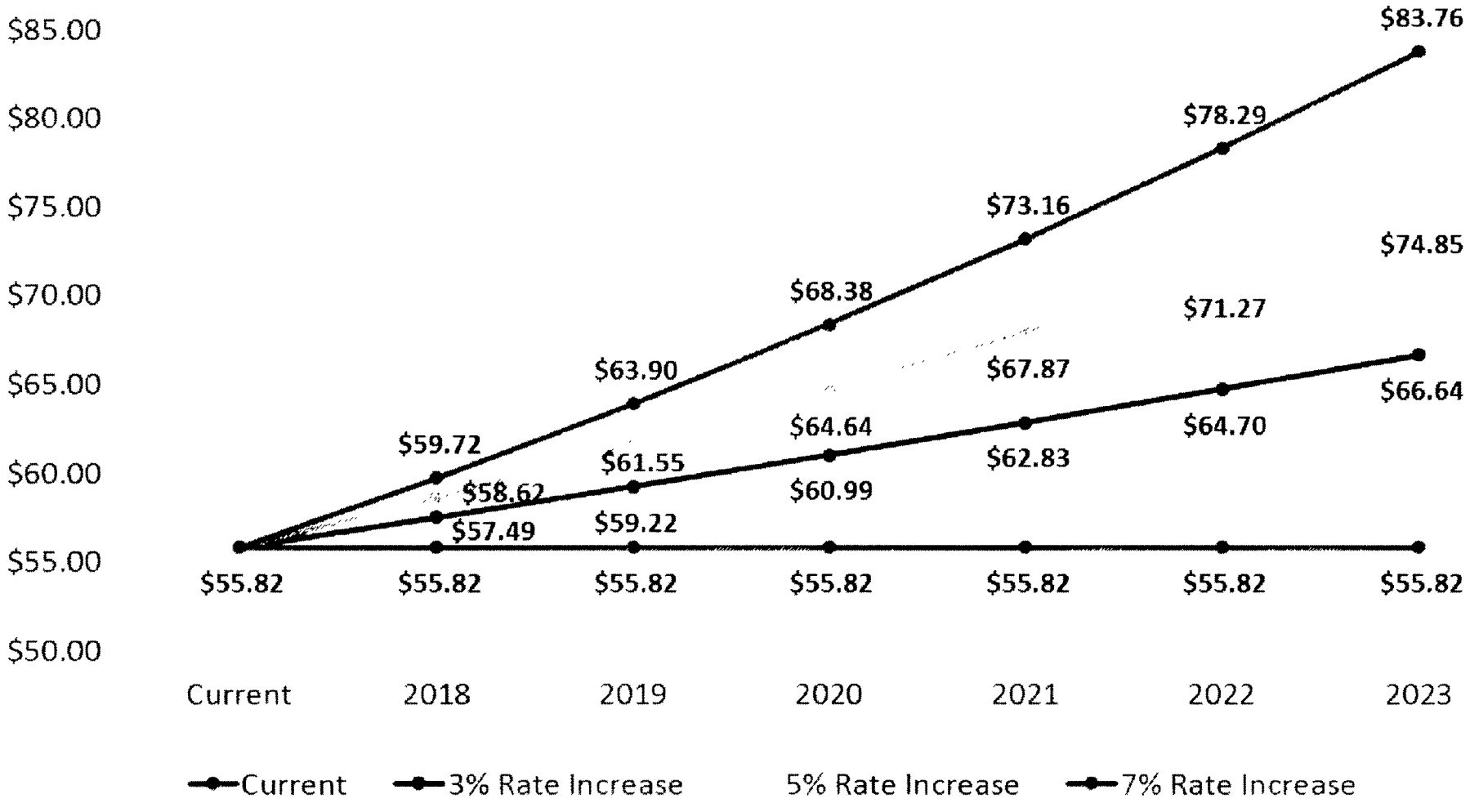


23401

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23.

23401

Wastewater Bill – Residential Inside 1" 5,000 gallons

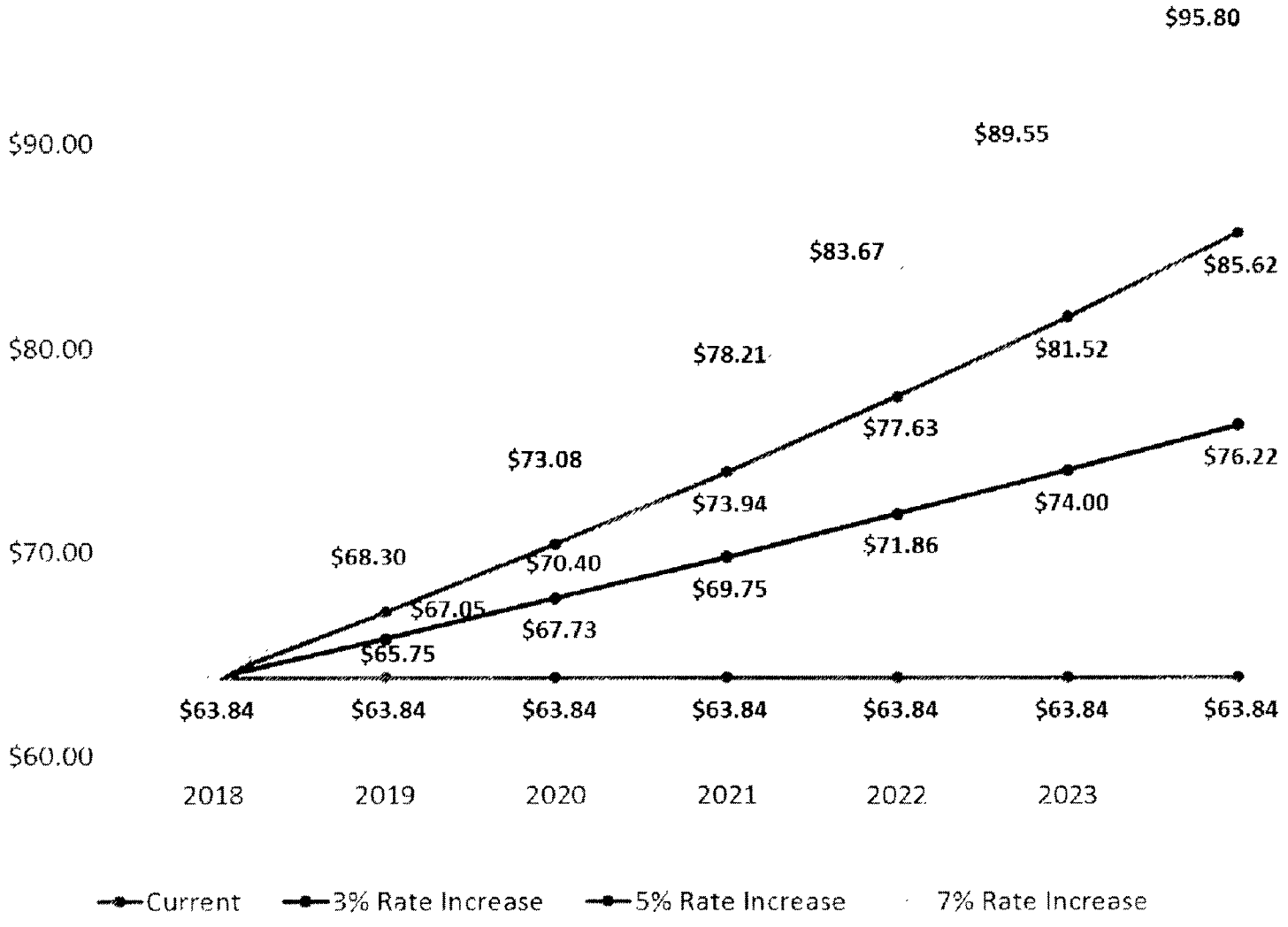


23402

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23402

Wastewater Bill – Residential Inside 1" 6,400 gallons



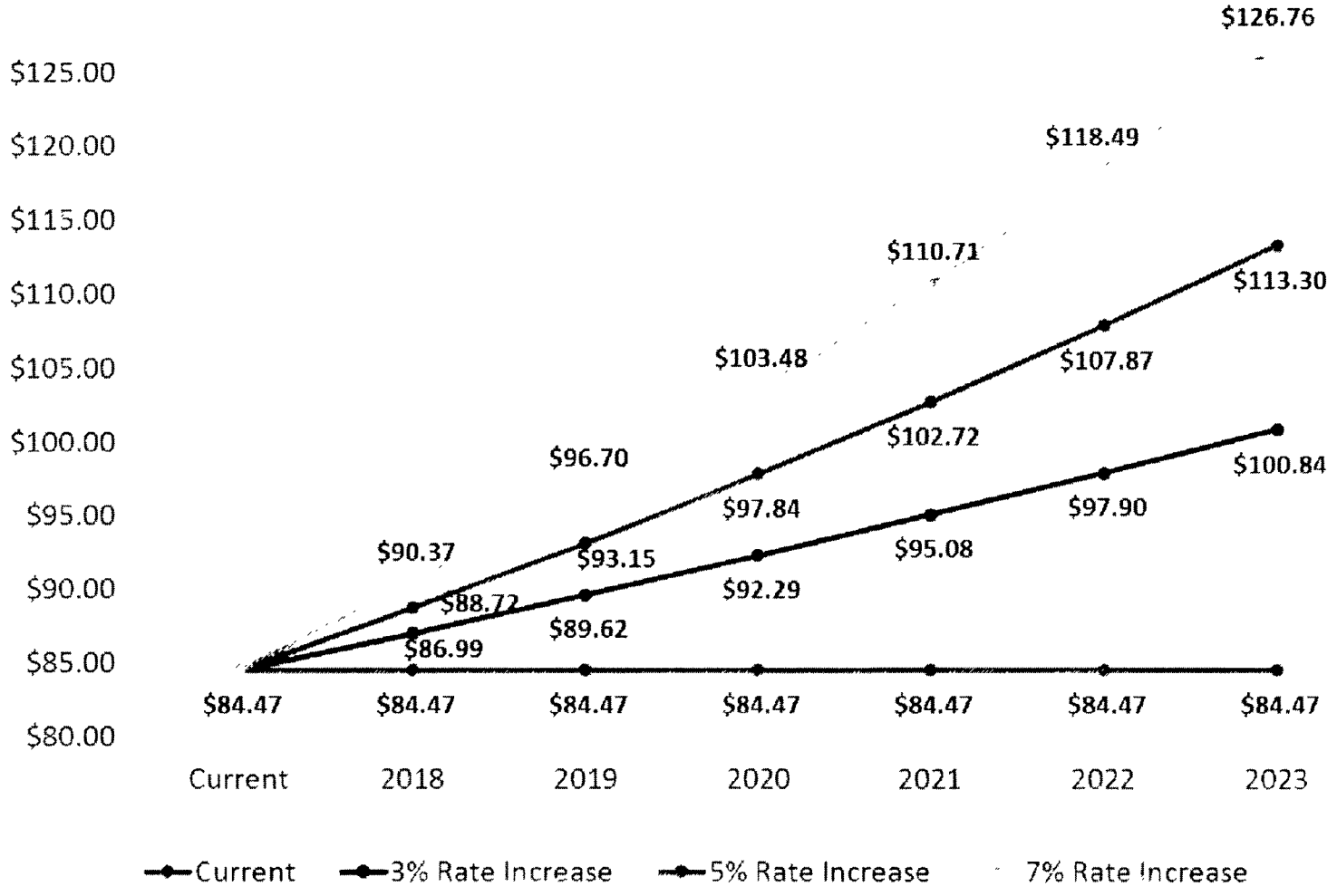
23403

Notes:

1 - Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23403

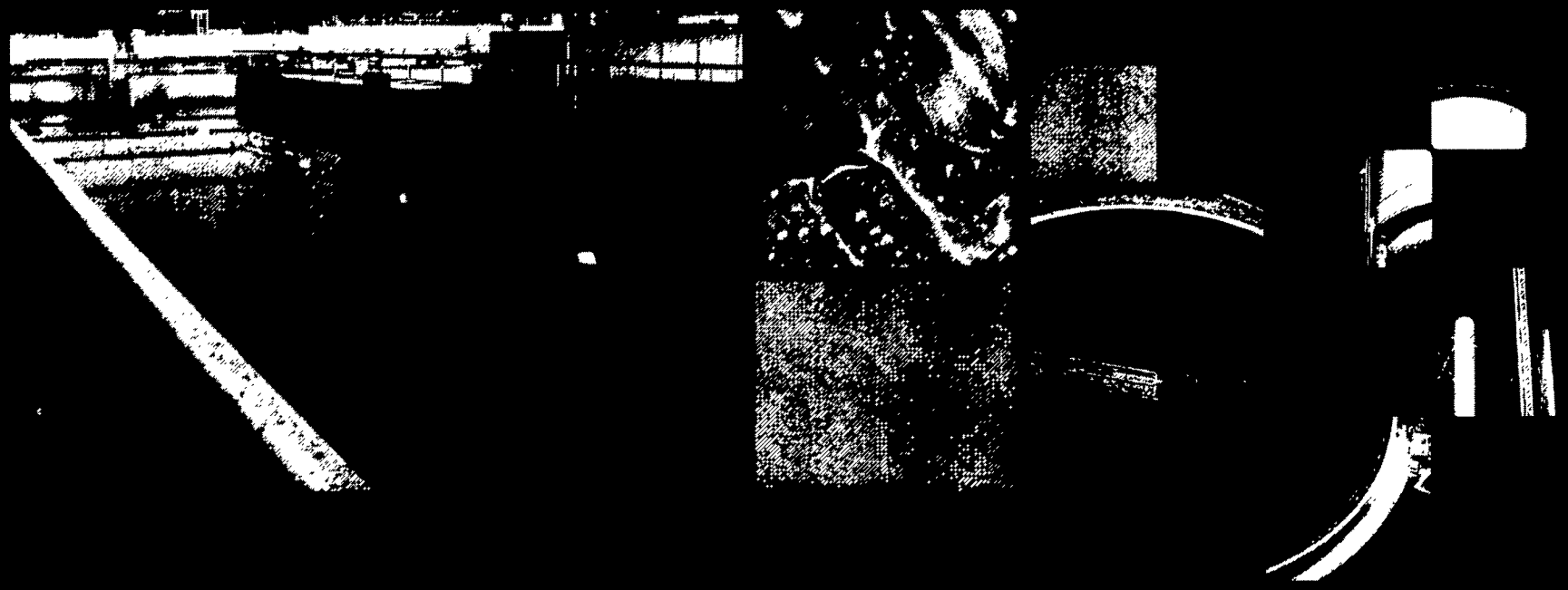
Wastewater Bill – Residential Inside 1" 10,000 gallons



23404

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23404



Scenario 2

Rates increased annually in FY18 and FY19

NewGen Strategies & Solutions

23405

ECONOMICS STRATEGY STAKEHOLDERS SUSTAINABILITY www.newgenstrategies.net

23405

Projected CIP –
Scenario 2: Assuming Rate Increases in FY 18 & FY19

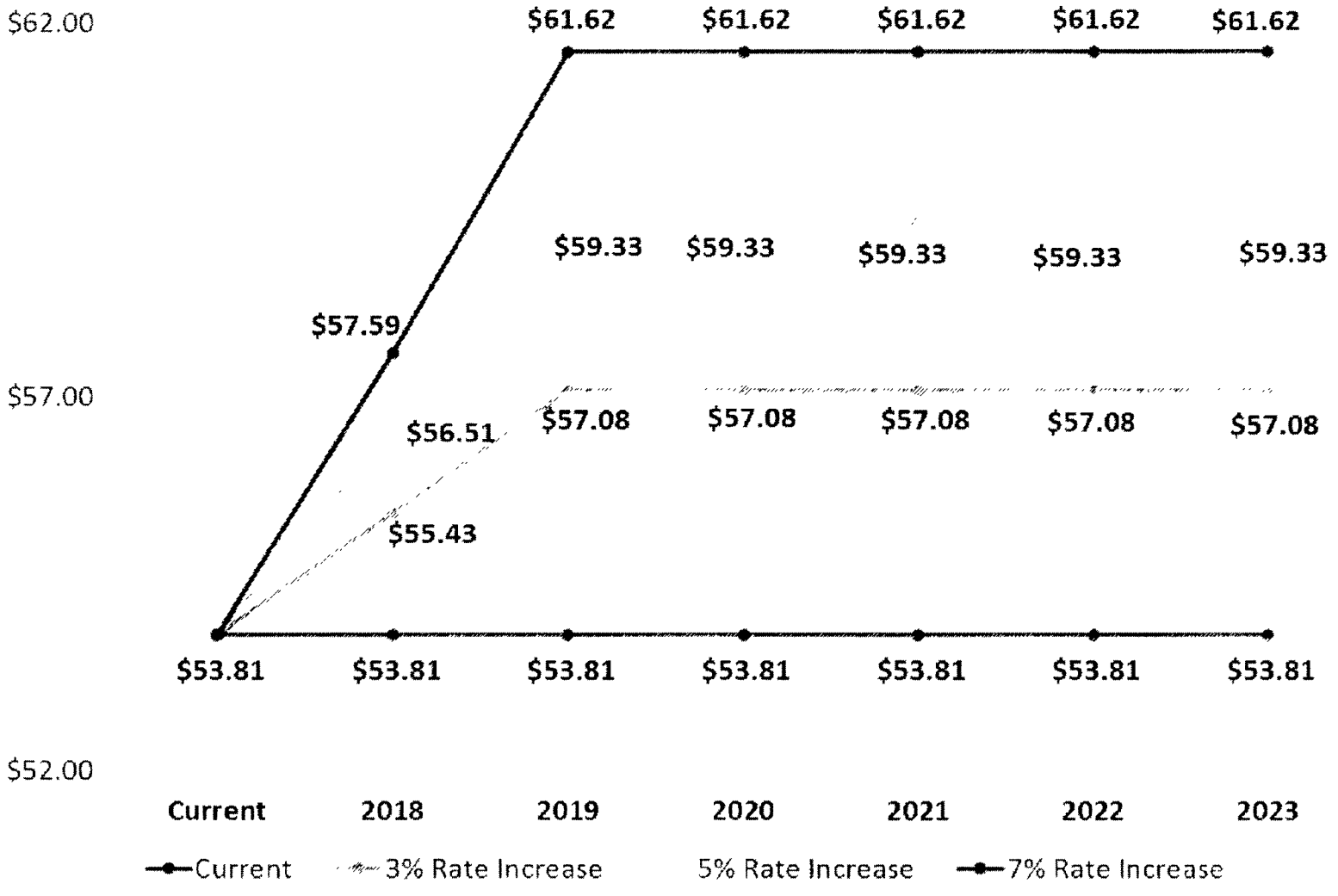
Description	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	Total
Projected CIP[1]	$60,016,000	$89,913,000	$10,444,000	$12,833,000	$0	$0	$173,206,000
Projected Debt to be Issued for CIP[2]							
No Increase	$14,863,676	$18,662,891	$22,156,989	$20,124,047	$13,775,924	$0	$89,583,528
3% Increase	24,342,466	20,597,074	24,439,068	21,992,639	15,597,584	0	106,968,831
5% Increase	29,833,931	21,804,356	25,863,501	23,158,980	16,734,632	0	117,395,399
7% Increase	35,405,991	23,027,990	27,307,227	24,341,118	17,887,080	0	127,969,406

Notes:
1) Assumes CIP Projects are funded in the fiscal year prior to the fiscal year in which they are to be triggered.
2) Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23406

23406

Water Bill – Residential Inside 1"
5,000 gallons

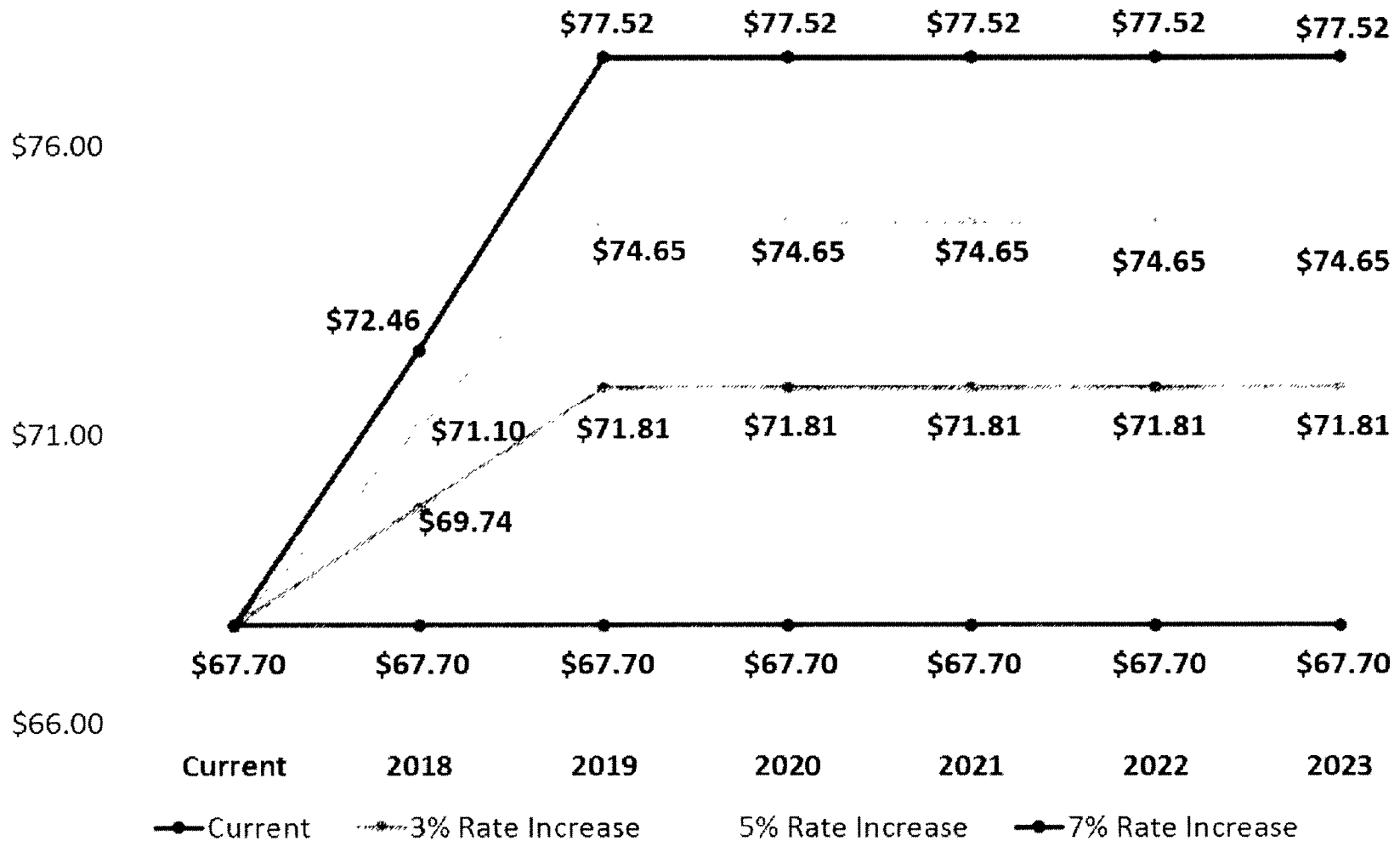


23407

Notes:
1 - Assumes annual increases to all rates for FY18 and FY19 only.

23407

Water Bill – Residential Inside 1"
7,800 gallons

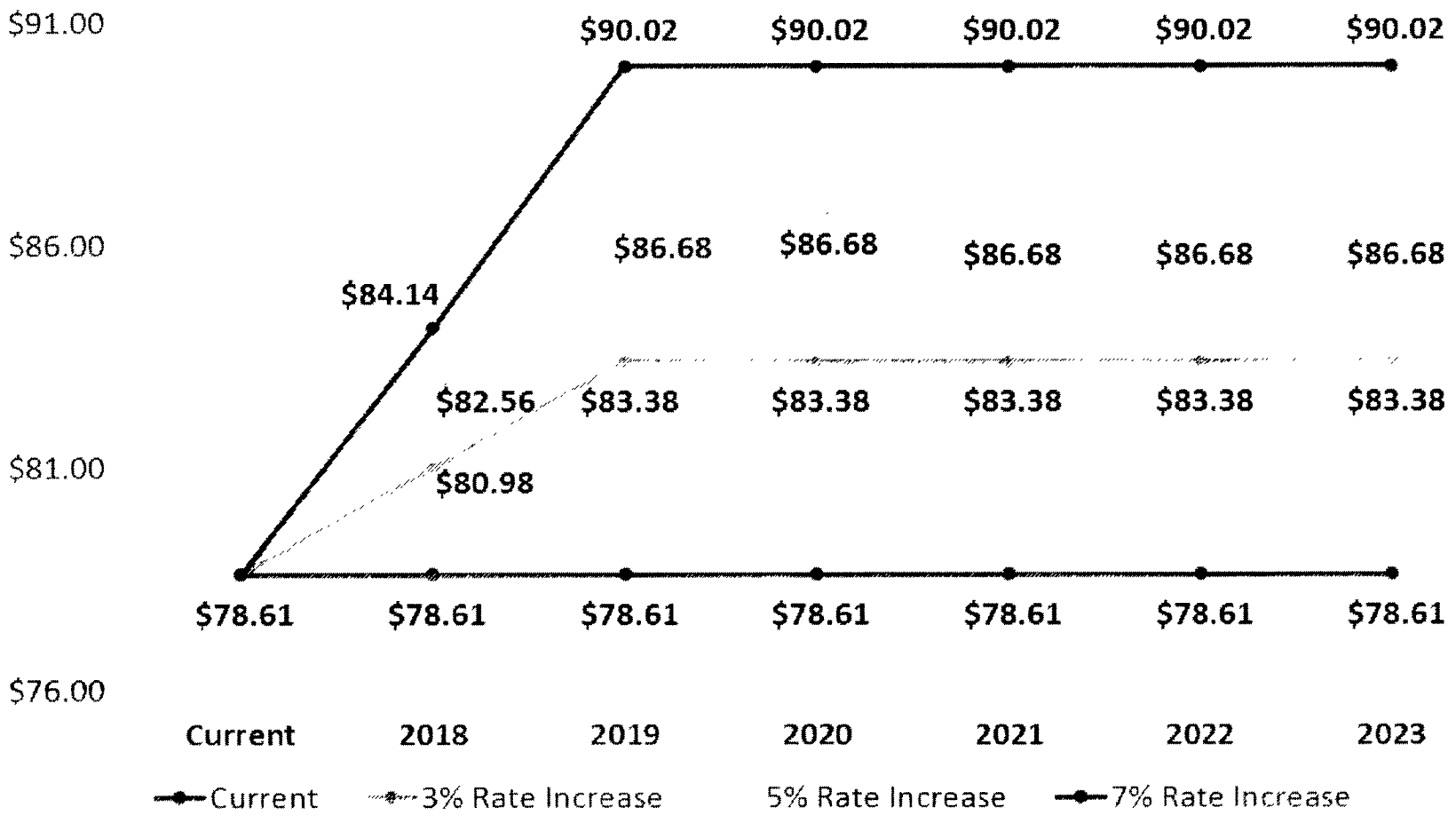


23408

Notes:
1 - Assumes annual increases to all rates for FY18 and FY19 only.

23408

Water Bill – Residential Inside 1"
10,000 gallons

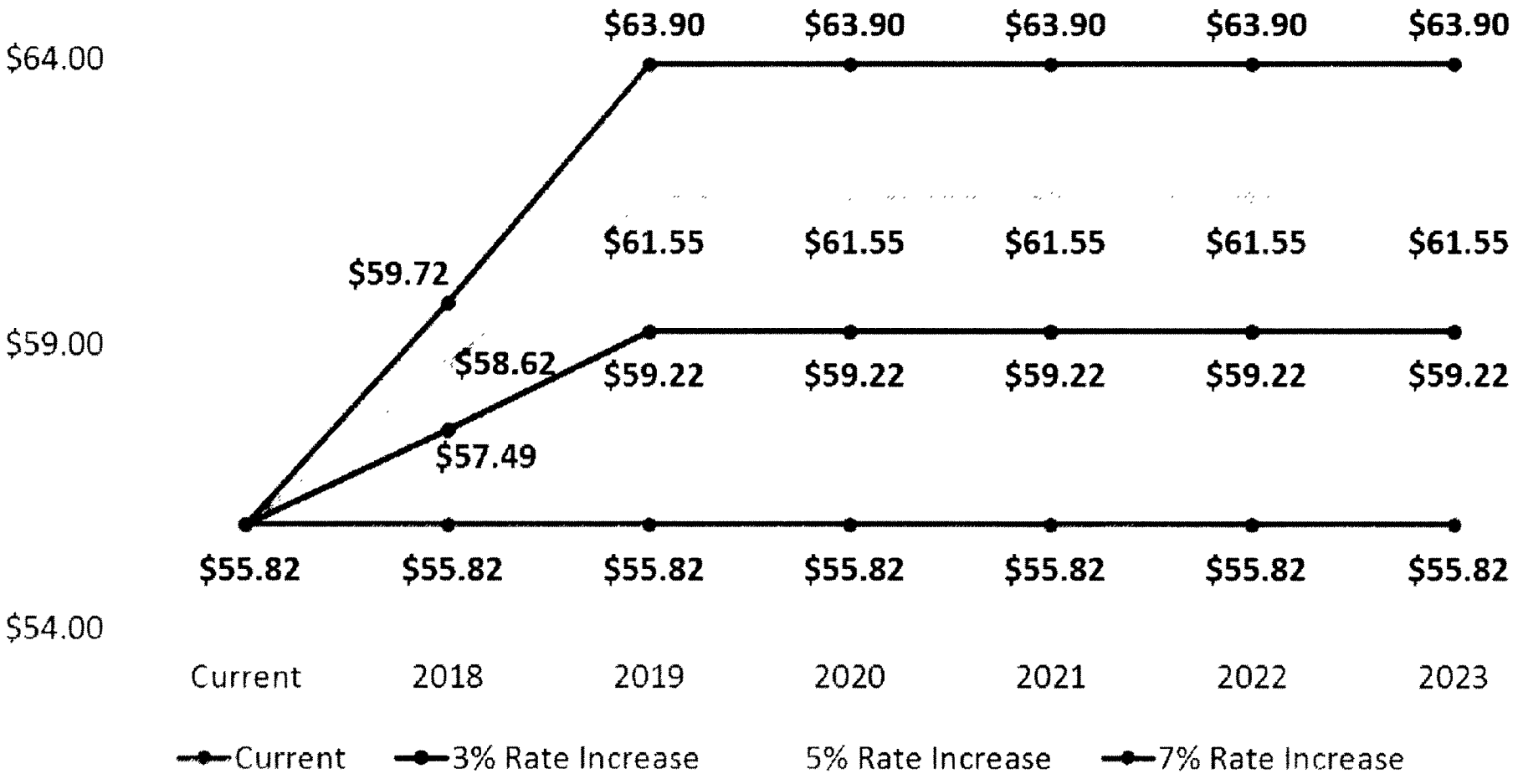


23409

Notes:
1 - Assumes annual increases to all rates for FY18 and FY19 only.

23409

Wastewater Bill – Residential Inside 1" 5,000 gallons

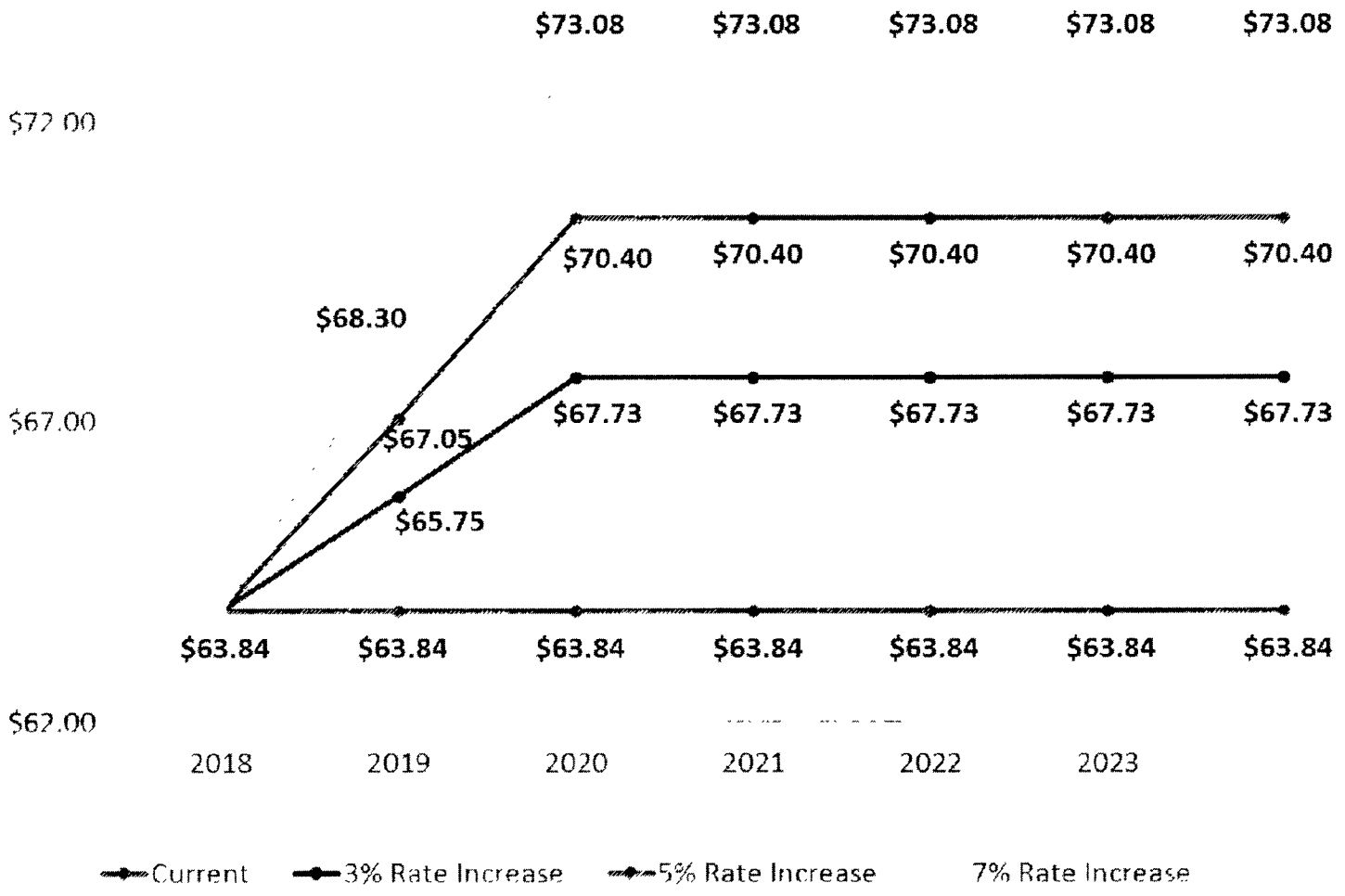


23410

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23410

Wastewater Bill – Residential Inside 1" 6,400 gallons



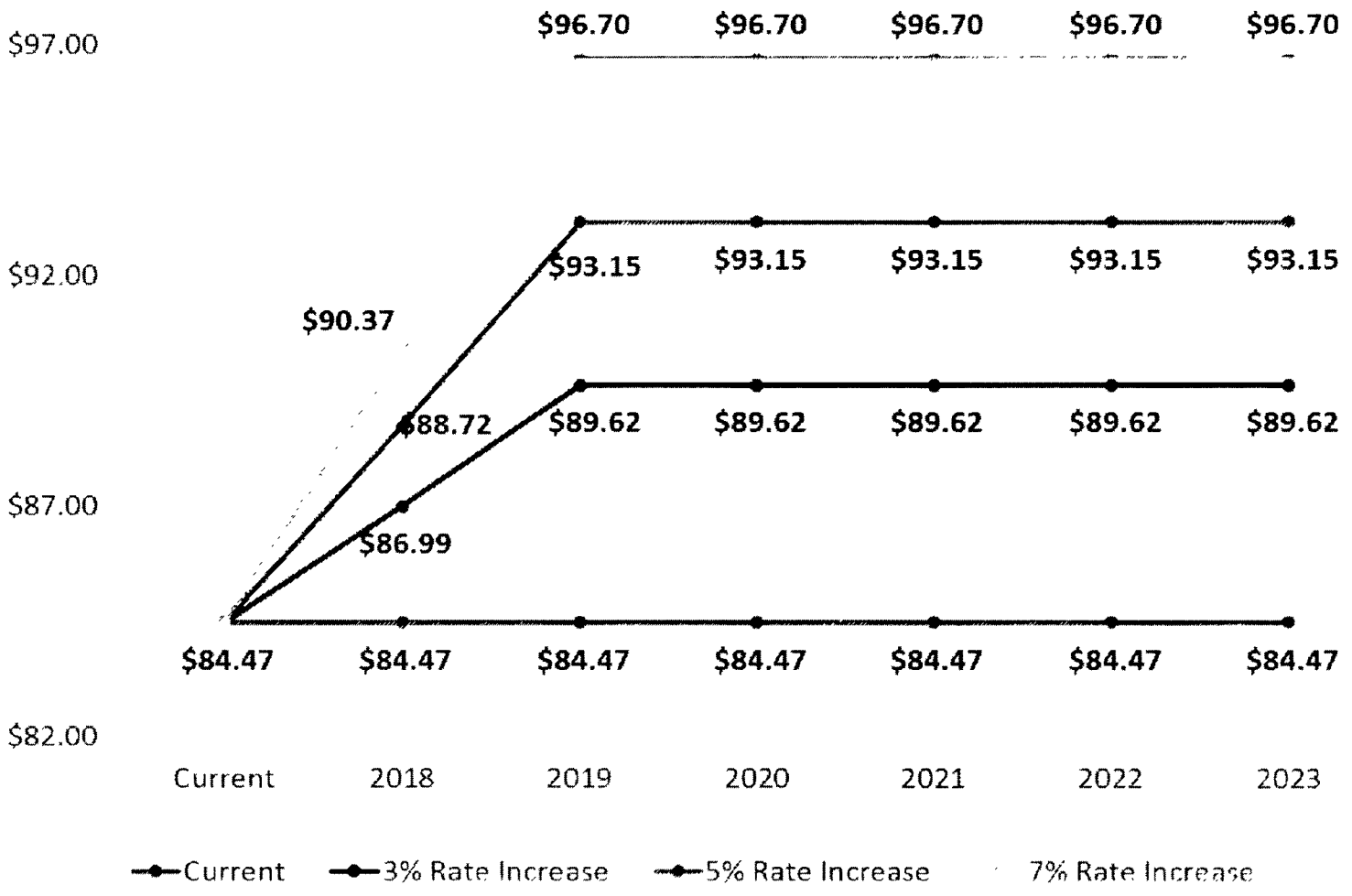
23411

Notes:

1 - Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23411

Wastewater Bill – Residential Inside 1" 10,000 gallons



23412

Notes:
1 - Assumes annual increases to all rates for FY18 through FY23. Does not include scenarios with Sewer Winter Average.

23412

Conclusion

- Current Master Plan CIP can be fully funded under scenarios where rates are raised 5% or 7% annually through FY 2023.
- Projects will need to be shifted around to meet annual funding availability

23413

23413

City of Celina, TX

Kick-Off Meeting Questions

- Revenue Requirement
  - 202-521-02-5149 Engineering ($35,000)
    - One-time expense? It's been zero in the past.
    - Budget of $35K Alan Gabe to Answer
  - 202-521-03-5208 Computer SW/HW ($26,000)
    - One-time expense? It's historically closer to $2000. New software? How do we escalate these costs? This is for Garver Scada Expense
  - 202-521-09-5430 Interest Expense ($0)
    - Historically around $300K a year. Why none this year? This entry is done at year end. It will be approx.. $642,800.
  - 202-521-09-5750 Capital Outlay ($30,000)
    - What is this for? New truck? One-time expense? New truck.
  - 202-522-02-5149 Engineering ($75,000)
    - One-time expense? Historically it's been $0 I&I Sewer Line
  - 202-522-09-5740 UTRWD Sewer ($621,970)
    - Why such a large jump in FY2016 ($290K to $620K)? This is a debt service payment. Our payment went up this year and will go up next year as well.
  - 202-522-09-5750 Capital Outlay ($30,000)
    - What is this for? One-time expense? Historically it's been $0 Truck
  - 202-400-01-5027 Credit Card Fees ($0)
    - Why no credit card fees when ~$20K average the past 3 years? We do not budget for CC fees.
  - 202-400-09-4850 Miscellaneous Income ($13,500)
    - What is this typically from? Broken meters by developers they pay us for
- CIP
  - Need the CIP plan and funding sources
- Existing Debt Service
  - Need P&I Amortization schedules through 2021 (including Series 2016) I have uploaded. "Amortization Schedules-2016 CO"
  - Water vs. Wastewater breakdown for each debt issue I am gathering the older data for older bond issues.
- Consumption Data
  - Water
    - Upon proving out the consumption data, we came within 2% of Billed UB System revenue, but are still short ~$300K of the CAFR number ($3.1M vs. $3.4M). Is there any additional revenue for Water Sales that feeds into the CAFR number that would not show up in the UB System?
  - Wastewater
    - Within 2% of CAFR and Billed. No questions.
- Additional questions
  - Is there a Debt Service Coverage requirement? No

- Is there a Days Cash on Hand Requirement? No
- Is there currently a reserve? No

  Bank Balance as of 5/31/16 show $5,759,087.08 Water/Sewer Money Market Unrestricted funds. Is this an accurate Beginning Fund Balance? If not, what is? [illegible]

23415

City of Celina, Texas

Water and
Wastewater Rate Study
DRAFT

August 2, 2002

Submitted By:

REED, STOWE & YANKE, LLC
5806 Mesa Drive, Suite 310
Austin, Texas 78731
(512) 450-0991

23416

23416

RS&Y

REED, STOWE & YANKE
A Limited Liability Company

August 2, 2002

Mr. Scott Albert,
City of Celina
302 W. Walnut
Celina, Texas 75009

Dear Mr. Albert:

Reed, Stowe & Yanke, LLC is pleased to present our preliminary findings and recommendations associated with the Water and Wastewater Rate Study prepared for the City of Celina ("City").

The report is structured such that it provides a clear and accurate presentation of the revenue and rate issues facing the City. This study does not constitute an examination of the financial statements of the City, and as such, we cannot and do not express any opinion regarding the validity or accuracy of the financial information provided.

The analysis and recommendations presented in this study would not be possible without the assistance of the City's staff, project engineers and project financial advisors. Significant effort were expended on the part of these individuals in gathering the operational and financial details of the water and wastewater system. We would like to express our sincere appreciation to all who participated in the conduct of this study.

Please review the enclosed report and schedules. We would like to schedule a workshop with the City to explain and discuss our findings and recommendations. If there are any questions or comments concerning the findings in this report, please contact Ms. Kelly Visness or Mr. Jack Stowe at (512) 450-0991.

Very truly yours,

Reed, Stowe & Yanke, LLC

23417

DRAFT

CITY OF CELINA
WATER AND WASTEWATER RATE STUDY
TABLE OF CONTENTS

DRAFT

I. EXECUTIVE SUMMARY

A. Introduction

In April 2002, the City of Celina (City) engaged Reed, Stowe & Yanke, LLC (RS&Y) to perform a comprehensive cost of service and rate design study for the City's water and wastewater system. The rate study is a part of Celina's planning process in which they are conducting the necessary studies to determine the impact of purchasing surface water from Upper Trinity Regional Water District (Upper Trinity). The project team has conducted its analysis based on the information obtained from numerous sources including, but not limited to: the City's billing system; audited financials; budgets; engineering reports; and interviews with City staff, project engineers (Hunter and Associates), financial advisors (SWS Securities) and the City Attorney.

This report is organized into four sections in addition to the Executive Summary. The first section describes the development of the water and wastewater utility revenue requirement. The second section provides a five-year revenue requirement forecast of the water and wastewater system for FY 2002/03 through FY 2006/07, as well as the five-year water and wastewater rate forecast. The third section provides a discussion regarding other issues. The fourth and final section provides a summary of our recommendations. In addition, a series of schedules supporting the calculations contained within the report are attached as Appendix A, Schedules 1-5.

B. Findings and Recommendations of the Five-Year Water and Wastewater Rate Study

RS&Y has undertaken this study with the goal of ensuring the financial integrity of the City's water and wastewater utility. In order to meet this goal, RS&Y needed to develop an accurate determination of the revenue requirements for the water and wastewater service including estimated costs for the purchase of surface water from Upper Trinity. These revenue requirements along with forecasted water and wastewater billing units are used in developing the water and wastewater rates for the service area.

The five-year projection is designed to be used as a planning tool for the City. Impending changes to the water and wastewater system require a full understanding of the financial implications. Decisions will be made in the current year concerning the following issues: the construction of new water infrastructure,

completion of the expanded wastewater treatment facilities; timing and actual purchase of surface water from Upper Trinity; and changes to the budgetary line items including proposed debt service payments. These decisions will directly impact the rates required to maintain the financial integrity of the system. RS&Y would recommend that the proposed water and wastewater rates for FY 2002/03 shown on Schedule 3 be implemented by October 1, 2002.

In addition, RS&Y recommends that the City closely monitor rate performance, i.e. revenue generation, and revisit the cost of service determination annually for the next three to five years. This is due to the fact that variations in actual customer growth rate from the growth rate employed in this analysis would have a material affect upon the City's utility financial performance.

Furthermore, RS&Y encourages the City to move ahead immediately on the development and implementation of impact fees in accordance with state statutes.

II. CURRENT WATER AND WASTEWATER REVENUE REQUIREMENT

A. Water and Wastewater Revenue Requirement

Financial Data

RS&Y used the City's FY 2001/02 budget as the basis for the revenue requirement development for FY 2002/03. The City's budget appears to provide an accurate estimate of the revenues and expenditures associated with the operation of the current water and wastewater utility for FY 2001/02. Certain adjustments have been made to the budget for ratemaking purposes; they include, but are not limited to the following:

- A capital outlay budget equal to approximately 8% of the water and wastewater budgets.
- The new debt service payments, first and second issue, provided by the financial advisor, were included in the revenue requirements.[1]
- Chemicals and Electricity were calculated based upon "historical per thousand gallons cost of water produced and wastewater treated."
- Based on the year to date actuals, a year to date percentage of uncollectibles of .25% of expenditures was used to project the Allowance for Bad Debt Expense.

The adjustments described above are incorporated into the budget for the water and wastewater cost projections.

Revenue Offsets

In order to properly identify the revenue requirement that needs to be recovered through rates, all other sources of revenue used to operate and maintain the system should be included as a revenue offset. The project team has used the revenue offsets as provided by the City in the FY 2001/02 Budget. The project team has kept all revenue offsets constant. These revenue offsets include reconnect fees, penalties, transfer fees, and investment income. The projected revenue for water and wastewater tap fees and water and wastewater impact fees are also included. The project team used the projected customer connections to calculate the estimated revenue for both the tap and impact fees.[2] The estimated revenues to be collected from these fees are provided in Section IV Other Issues.

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[1] The project team used the debt service schedules provided by the financial advisor that included the following parameters: insurance, three year interest only payment, and lower principal payment in the fourth year. (See Appendix A Schedules 4 and 5)

[2] The project team used the impact fees from Ordinance No. 01-05. The model should be updated once a new impact fee study has been completed (See Recommendation Section).

Separation of the Budget into Water and Wastewater Components

The City provided the FY 2001/02 budget in which the costs were already separated into water and wastewater costs. The only budgetary item that needed to be allocated between the water and wastewater system was the outstanding debt service payments. The project team contacted the City's Auditor, who provided a breakout of each bond issue with a percentage breakdown of water costs versus wastewater costs. The proposed debt service payments are allocated 100% to the water utility based on the use of those funds.

Current Water and Wastewater Rates

The water and wastewater rates provided in Ordinance No. 01-07 were effective on October 1st, 2001. The water and wastewater rates consist of both a minimum monthly bill, that includes 2,000 gallons, and a volumetric rate. The following table outlines the water rate structure for both residential and commercial customers. Customers outside the corporate city limits of the City of Celina are charged the base fee plus 50% additional charge.

WATER RATES		
RESIDENTIAL		
First 2,000 gallons	$12.60	
2,001-3,000 gallons	$16.35	
3,001-4,000 gallons	$21.97	
4,001-5,000 gallons	$26.85	
5,001-15,000 gallons	$4.75	Per 1,000 gallons
15,001 and up	$2.00	Additional Per 1,000 gallons
COMMERCIAL		
First 2,000 gallons	$14.60	
2,001-3,000 gallons	$18.35	
3,001-4,000 gallons	$23.97	
4,001-5,000 gallons	$28.85	
5,001-240,000 gallons	$4.75	Per 1,000 gallons
240,001 and up	$2.00	Additional Per 1,000 gallons

WASTEWATER RATES		
RESIDENTIAL		
First 2,000 gallons	$13.75	
2,001-3,000 gallons	$15.81	
3,001-4,000 gallons	$18.18	
4,001-5,000 gallons	$21.10	
5,001-15,000 gallons	$3.00	Per 1,000 gallons
15,001 and up	$51.10	Top out charge
COMMERCIAL		
First 2,000 gallons	$13.75	
2,001-3,000 gallons	$15.81	
3,001-4,000 gallons	$18.18	
4,001-5,000 gallons	$26.00	
5,001-50,000 gallons	$3.00	Per 1,000 gallons
50,001 and up	$3.50	Additional Per 1,000 gallons

III. WATER AND WASTEWATER FIVE-YEAR RATE STUDY FORECAST

A. Introduction

The five-year study performed by the RS&Y project team is designed to take into account all foreseeable changes within the five-year planning horizon. The goal is to construct a planning tool with which the City can gain an understanding of the issues that need to be addressed within the five-year time frame and the rates necessary to recover the costs associated with the utility's plans. A critical benefit of such a study is the ability to quantify the long-range impact of the decisions being made today. As with any projection, assumptions have been used and the City should be aware that the actual rates ultimately required may differ from the projected rates detailed within this section of the report, due to changes unforeseen at this time (e.g. changes in construction schedule, increased water quality regulations, delays in water or wastewater connections, lower growth than projected, etc.).

As the study progressed, certain issues identified as "critical" needed to be addressed. At the top of this list is the timing associated with construction, customer hook-up, and costs and timing for the purchase of surface water from Upper Trinity. Additional issues addressed in the five-year forecast were the customer projections of the City, the inflationary trends of the budget, and the long-term protection of the financial integrity of the system. RS&Y relied on information received from various sources; however, due to the nature of this project, these assumptions are subject to change. The City will have the electronic model of the rate study and can make any necessary changes to determine the impact on the water and wastewater rates.

As a planning tool, the five-year forecast outlines the cause and effect relationships of the issues described above and, most importantly, the resulting rate structure required to keep the water and wastewater utility on solid financial ground. The analysis is divided into three main sections: Customer and Volume Projections; Revenue Requirement Projections; and Rate Design.

B. Water and Wastewater Customer and Volume Projections

Water Consumption

In order to estimate future operating characteristics of a system, historical customer data is selected that reflects the normal operation of the system. Due to changes and constraints of the Celina billing

software, comparative historical data was only available starting May 2001. For this study, the average water usage per connection by customer class for May 2001 to April 2002 was used as the "test year". The average water usage per connection was compared to averages for cities in the surrounding area and appeared to be relatively normal.[3] This data was then adjusted to reflect the addition of new water customers to the system. Based on discussions with City staff and project engineers, the Project Team used a 8.0% growth rate in customer connections. For the purpose of the FY 2002/03 rates, annual usage (i.e. water sold) is projected to be approximately 140 million gallons.

For the purpose of projecting the five-year operating characteristics of the City's water utility, the annual average consumption per connection was then multiplied by forecasted total connections. Water consumption is projected to reach approximately 191 million gallons by FY 2006/07.

Danville

The project team obtained one year of historical billing information for the Danville Water Supply Corporation customers. An average usage per customer was calculated based on the historical information. The project team included the customer counts and their respective water usage into the model and used the same growth rate estimates for the Danville customers.

Lost and Unaccounted for Water

The difference between the total water sold by the City to the customers and the total water produced is defined as "lost and unaccounted for water." This includes water lost through line breaks and line flushings. The City's lost and unaccounted for water percentage is approximately 24%. The City's lost and unaccounted for water percentage is currently above industry standards. The question of the month, "How Can We Determine How Much Water Was Lost?" in a July 2001 issue of Opflow, an AWWA publication, stated that with available technologies, it is acceptable for a well-managed system to have between 10 to 15 percent unaccounted for water. The Project Team was unable to obtain the production records that correspond to the billing months provided by the City. Therefore, the lost and unaccounted for water percentage is the best estimate of the actual lost and unaccounted for percentage that the project team could calculate, and the project team recommends that the City monitor this percentage to ensure that the 24% is

[3] The project team recommends that the City monitor the water usage and ensure that it is consistent with projected

not what is actually occurring. The Project Team also recommends that the City implement a meter change out program, which may help to alleviate this lost and unaccounted for water issue (see Recommendations Section).

Wastewater

Celina is currently in the process of expanding their wastewater treatment capacity in order to handle the additional flows from the growth in Celina. Wastewater customer class counts and volume information from the City of Celina had the same restrictions as the water information. The project team analyzed the wastewater treatment production numbers and the wastewater billing units and found a large discrepancy in the numbers.[4] For the months provided, the wastewater influent is 102,450,000 gallons. The corresponding monthly wastewater billing units are 60,021,300 gallons. This discrepancy could be the result of various issues; a large amount of the wastewater flow is not being captured in the billing units correctly; incorrect data capture, or there is a significant amount of inflow/infiltration into the wastewater collection system.

For the model projections, the project team used the same billing information as the water system for the residential and commercial wastewater customers with one exception. The project team capped the residential wastewater billing units at 15,000 gallons per the rate ordinance. In addition, the project team added the wastewater billing units and customer counts for the wastewater only customers.

Current connections were increased by a 8.0% annual connection growth rate.

C. Water and Wastewater Revenue Requirements

Projecting the water and wastewater revenue requirements for five years requires a line item by line item analysis of the budgeted expenses. Certain expenses may vary directly with inflation while others are determined by system growth and still others are determined by City policy.

estimates in order to ensure the continued financial stability of the system.

[4] The project team again stresses the importance of monitoring usage information due to the unknown variables involved in this project.

Budgetary Items

The issues mentioned below are addressed in Schedules 1 and 2 along with the other budget items which were projected based either on inflation or discussions with the City's staff. A summary of budgetary projections is detailed below:

- Operation and maintenance (O&M) budgetary items have been increased by 3%, annually, for inflation.
- Salary line items are increased by 3% per year. The City added a meter reader and public works director to the budgeted numbers in FY 2002/03 and increased the personnel benefit line items accordingly.[5]
- Chemicals and Electricity line items were increased based upon water produced and wastewater flow and 3% inflation.

The adjustments described above are incorporated into the budget for the water and wastewater cost projections schedules.[6]

Upper Trinity Financial Requirements

The City of Celina has contracted for a subscribed capacity of 1.0 MGD of treated surface water from Upper Trinity. The agreement with Upper Trinity includes the following fees; Water System Equity Fee, Demand Charge, and Volume Charge. The Water System Equity Fee at $30,738 a year and the Demand Charge of $180,000 are included in the rate study. The project team did not include any volume charges in the rate study. Based on volume projections estimated by the project team, it is not necessary for Celina to purchase a significant amount of water from the Upper Trinity during the study timeframe.

The City currently has four wells in operation for the supply of water to Celina customers. The City provided the project team with the following well capacity amounts (see table below). The Texas Natural Resource Conservation Commission (TNRCC) has Celina listed at 1.066 MGD for total production. The projected maximum amount of water produced (including lost and unaccounted for water and water demanded by Celina's customers, excluding Danville) is approximately 173 million gallons of water in FY 06/07.

[5] The public works director salary was allocated 1/3 to water and 1/3 to wastewater.

[6] Appendix A Schedules 1 and 2, respectively.

City of Celina Current Well Production Capacity	
Well No. 1	115,200 GPD
Well No. 2	72,000 GPD
Well No. 3	259,000 GPD
Well No. 4	345,600 GPD
Total Well Capacity	791,800 GPD
Annual Production Capacity	**298 Million Gallons**

Once construction on the line is complete, the line will have to be filled, but the costs for this fill should be immaterial. In the event that one of Celina's wells does go down, then Celina should be ready to add a pass through rate for surface water in order to recover costs of purchasing water from Upper Trinity. The project team has calculated this pass through rate to be:

Summer **$0.27 per thousand gallons**

Winter **$0.15 per thousand gallons**

D. Five-Year Rate Design

There are many different rate methodologies employed in the water and wastewater industry today. The goal is to provide a fair and equitable rate for all customers. Under certain situations, such as limited water supply or long-term drought conditions, some cities have turned to conservation rates or inclining block rates to control the demand of the system users. The methodology used and recommended by RS&Y for the water rates incorporates an increased minimum bill charge, a reduction in the number of rate blocks and an increase in the volumetric rates. The recommended rate structure does not promote an extreme use of water and is therefore in accordance with the water conservation goals promoted by the Texas Water Development Board (TWDB) and the Texas Natural Resource Conservation Commission (TNRCC).

Given projected volumes and expenses, the remaining step is to develop the five-year rate forecast. The project team has proposed that the City consolidate their rate blocks for the water rates and change the wastewater rates to a flat volumetric rate with a minimum bill charge. There is no change to the gallons included in the minimum bill. However, if the City wishes to lessen their volumetric rate increases in the future, one option would be to eliminate any gallons included in the minimum bill. Based on these

changes to the rate structure, the project team has designed the water and wastewater rates necessary to recover the cost of providing water and wastewater service. RS&Y has designed the rates without the multiplier for the outside city limit customers. RS&Y recommends that the City incorporates the Danville customers into the City's respective rate classes, residential or commercial. These rates are provided in the Recommendation Section. In addition, Appendix A, Schedule 3 presents the proposed water and wastewater rates that RS&Y would recommend the City implement.

IV. OTHER ISSUES

Assumptions

The RS&Y project team had to use industry standards and previous experience throughout the conduct of this rate study due to the number of unknowns regarding the water and wastewater system. RS&Y would highly recommend that the City of Celina review their rates annually either in-house or by an outside consultant.

Meter Change Out Program

Celina is expected to experience high growth in the next few years. This growth plus the addition of Danville customers, deems it necessary to add another meter reader salary to the water and wastewater budget. The cost of this meter reader is estimated to be approximately $21,000 plus benefits annually. The project team recommends that the City consider an alternative to this scenario. Due to the "calculated" high lost and unaccounted for water percentage, the project team feels that a meter change out program is necessary, because some of these meters may be underreading usage. The City could implement a radio read meter change out program which means that the City will not need the additional meter reader. Therefore, the City will save that cost and will have a more efficient water system. Please refer to Appendix B for information regarding the City of Plano's radio read program.

Upper Trinity Financing

The City of Celina has another option of financing the surface water related capital improvement programs with Upper Trinity. This option has been previously discussed with former City staff, and the results of those discussions were that the financing costs would be similar and that Upper Trinity would add an administrative fee. Based on this information, the project team did not investigate this option any further. However, if the City feels that this is a better option, then the model will need to be rerun with the bond schedules and budget updated to reflect this change. With either method, the costs will have to be recovered through the impact fees and the water rates.

Impact Fee and Tap Fee Revenues

The project team projected the impact fee and tap fee revenues for FY 02/03 based on the projected new customers and the fees currently in place. For the remaining four fiscal years, the project team included the

same estimated impact and tap fee revenues. If the City does not collect the impact fee and tap fee revenue, as projected in the rate study, then both the water and wastewater rates will need to be adjusted accordingly and it could result in a revenue shortfall for the fiscal year.

Projected Tap and Impact Fee Revenue	
	FY 02/03
Water Tap Fees	$ 108,000
Sewer Tap Fees	$ 78,000
Tap Fees	$ 186,000
Water Impact Fees	$ 116,280
Sewer Impact Fees	$ 96,915
Impact Fees	$ 213,195

V. RECOMMENDATIONS

Throughout the course of this engagement the RS&Y project team has spent considerable time analyzing the water and wastewater system. The following list of recommendations represents specific actions that the City of Celina may wish to consider. Many of the recommendations have been detailed in the body of this report, while others are offered for the first time in this section.

1. RS&Y recommends that the City implement the proposed water and wastewater rates, as shown below and on Schedule 3. Additional rate scenario options are provided in Appendix D.

   Water Rates

   - RS&Y recommends that the volumetric water and minimum bill charge be changed as provided in the tables below. In addition, the project team has consolidated the rate blocks from a six rate block structure to a four rate block structure.
   - RS&Y recommends that the City abandon its practice of charging outside city limits customer the base fee plus 50% additional charge, as stated in the rate ordinance.
   - Based on the five-year forecast and the proposed rate schedule, the City will need to implement the proposed rates for FY 02/03 and FY 03/04.
   - For comparison of the average monthly residential and commercial customer bills, please refer to the table below.

Monthly Residential Water Bill Comparison			
Water Usage	Current Residential	Proposed FY 02/03 Residential	Proposed FY 03/04 Residential
3,000	$16.35	$20.50	$22.85
6,000	$31.60	$33.15	$36.64
10,000	$50.60	$52.55	$57.80
20,000	$108.10	$111.05	$121.60

Monthly Commercial Water Bill Comparison			
Water Usage	Current Commercial	Proposed FY 02/03 Commercial	Proposed FY 03/04 Commercial
3,000	$18.35	$22.50	$24.85
6,000	$33.60	$35.15	$38.64
10,000	$52.60	$54.55	$59.80
20,000	$100.10	$103.05	$112.70

Proposed Water Rates (FY 02/03)			
	Residential		Commercial
Volumetric Rate (per thousand gallons)		**Volumetric Rate** (per thousand gallons)	
2,001 – 5,000	$3.90	2,001 – 5,000	$3.90
5,001 – 15,000	$4.85	5,001 – 240,000	$4.85
Above 15,000	$6.85	Above 240,000	$6.85
Minimum Bill (includes 2,000 gallons)	$16.60	**Minimum Bill** (includes 2,000 gallons)	$18.60

Proposed Water Rates (FY 03/04)			
	Residential		Commercial
Volumetric Rate (per thousand gallons)		**Volumetric Rate** (per thousand gallons)	
2,001 – 5,000	$4.25	2,001 – 5,000	$4.25
5,001 – 15,000	$5.29	5,001 – 240,000	$5.29
Above 15,000	$7.47	Above 240,000	$7.47
Minimum Bill (includes 2,000 gallons)	$18.60	**Minimum Bill** (includes 2,000 gallons)	$20.60

Wastewater Rates

- RS&Y recommends that the City implement the proposed wastewater volumetric rate of $3.30 per thousand gallons. The project team has changed the rate structure from an inclining block rate structure to a flat volumetric rate.
- RS&Y has designed the rates with the residential wastewater bill capped at 15,000 gallons.
- For comparison of the average residential and commercial customer bills, please refer to the table below.

Monthly Residential and Commercial Wastewater Bill Comparison				
Water Usage	Current Residential	Current Commercial	Proposed Residential	Proposed Commercial
3,000	$15.81	$15.81	$17.55	$17.55
6,000	$24.10	$29.00	$27.45	$27.45
10,000	$36.10	$41.00	$40.65	$40.65
20,000	$51.10	$71.00	$57.15	$73.65

Proposed Wastewater Rates			
	Residential		**Commercial**
Volumetric Rate (per thousand gallons) Above 2,000 gallons	$3.30 (capped at 15,000 gallons)	**Volumetric Rate** (per thousand gallons) Above 2,000 gallons	$3.30
Minimum Bill (includes 2,000 gallons)	$14.25	**Minimum Bill** (includes 2,000 gallons)	$14.25

2. RS&Y recommends that the City conduct an impact fee study that will provide the information required to update the City's impact fee ordinance. Any delay in receiving impact fee revenues could result in an underrecovery for the water and wastewater utility.

3. Per the rates listed and the projected revenues, the City is above the debt service coverage requirements. Please note that the City may potentially fall below their debt coverage requirement, if any of the assumptions used in this model do not occur. Due to unknown growth parameters and unknown financial costs, RS&Y recommends that at this time the City only monitor the situation.

4. RS&Y recommends that the City review this study on an annual basis, to ensure that the utility's rates are adequately recovering the cost of providing water and wastewater service and are in compliance with outstanding bond covenants. It is critical to review and modify the revenue requirement annually.

5. RS&Y recommends that the City begin a meter change out program. The lost and unaccounted for percentage, based on information provided from the City, is above industry standards.

[redacted]

ESTIMATED ANNUAL INFLATION 3.00%

	Rate Year 2003	Rate Year 2004	Rate Year 2005	Rate Year 2006	Rate Year 2007
PURCHASED TREATED WATER	**$210,738**	**$210,738**	**$210,738**	**$210,738**	**$210,738**
GROUND WATER PRODUCTION					
Salaries & Related	$213,358	$219,759	$226,352	$233,142	$240,137
Supplies	61,755	64,156	66,690	69,369	72,204
Maintenance	39,964	41,163	42,398	43,670	44,980
Services	145,096	156,041	168,055	181,254	195,766
Cash Capital Outlay	90,000	103,417	105,665	113,617	123,110
TOTAL GROUND WATER PRODUCTION	**$550,173**	**$584,536**	**$609,160**	**$641,052**	**$676,196**
RAW WATER PRODUCTION					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Cash Capital Outlay	0	0	0	0	0
TOTAL RAW WATER PRODUCTION	**$0**	**$0**	**$0**	**$0**	**$0**
WATER TREATMENT PLANT					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Cash Capital Outlay	0	0	0	0	0
TOTAL WATER TREATMENT PLANT	**$0**	**$0**	**$0**	**$0**	**$0**
TREATED WATER TRANSMISSION/DISTRIBUTION					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Cash Capital Outlay	0	0	0	0	0
TOTAL TREATED WATER TRANSMISSION/DISTRIBUTION	**$0**	**$0**	**$0**	**$0**	**$0**
UTILITY ADMINISTRATION					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL UTILITY ADMINISTRATION	**$0**	**$0**	**$0**	**$0**	**$0**
CUSTOMER SERVICE					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	3,045	3,136	3,230	3,327	3,427
Maintenance	0	0	0	0	0
Services	597	615	634	653	672
Capital Outlay	0	0	0	0	0
TOTAL CUSTOMER SERVICE	**$3,642**	**$3,752**	**$3,864**	**$3,980**	**$4,100**
ENGINEERING					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL ENGINEERING	**$0**	**$0**	**$0**	**$0**	**$0**
LABORATORY					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0

ESTIMATED ANNUAL INFLATION 3.00%

	Rate Year 2003	Rate Year 2004	Rate Year 2005	Rate Year 2006	Rate Year 2007
TOTAL LABORATORY	**$0**	**$0**	**$0**	**$0**	**$0**
NON-DEPARTMENTAL					
Debt Service	$351,003	$490,457	$488,719	$560,887	$643,078
Transfers	0	0	0	0	0
Other Non-Departmental	2,849	3,232	33,653	3,551	3,847
TOTAL NON-DEPARTMENTAL	**$353,852**	**$493,689**	**$522,372**	**$564,434**	**$647,825**
TOTAL NON-RATE REVENUE	**$257,630**	**$257,630**	**$257,630**	**$257,630**	**$257,630**
TOTAL REVENUE REQUIREMENT	**$860,776**	**$1,035,084**	**$1,088,503**	**$1,162,573**	**$1,281,229**

Debt Service Help

<< < TOP NEXT >>>

ESTIMATED ANNUAL INFLATION 3.00%

	Rate Year 2003	Rate Year 2004	Rate Year 2005	Rate Year 2006	Rate Year 2007
PURCHASED WASTEWATER TREATMENT	**$0**	**$0**	**$0**	**$0**	**$0**
INDUSTRIAL WASTE/PRE-TREATMENT					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL INDUSTRIAL WASTE/PRE-TREATMENT	**$0**	**$0**	**$0**	**$0**	**$0**
WASTEWATER TREATMENT PLANT					
Salaries & Related	$107,715	$110,947	$114,275	$117,704	$121,235
Supplies	20,343	21,462	22,672	23,983	25,403
Maintenance	24,720	25,462	26,225	27,012	27,823
Services	62,418	66,625	71,220	76,244	81,744
Capital Outlay	27,000	28,068	28,782	29,697	30,786
TOTAL WASTEWATER TREATMENT PLANT	**$242,196**	**$252,563**	**$263,175**	**$274,640**	**$286,991**
WASTEWATER COLLECTION					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL WASTEWATER COLLECTION	**$0**	**$0**	**$0**	**$0**	**$0**
UTILITY ADMINISTRATION					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL UTILITY ADMINISTRATION	**$0**	**$0**	**$0**	**$0**	**$0**
CUSTOMER SERVICE					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	2,205	2,271	2,339	2,409	2,482
Maintenance	0	0	0	0	0
Services	433	446	459	473	487
Capital Outlay	0	0	0	0	0

23438

ESTIMATED ANNUAL INFLATION 3.00%

	Rate Year 2003	Rate Year 2004	Rate Year 2005	Rate Year 2006	Rate Year 2007
TOTAL CUSTOMER SERVICE	**$2,638**	**$2,717**	**$2,798**	**$2,882**	**$2,969**
ENGINEERING					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL ENGINEERING	**$0**	**$0**	**$0**	**$0**	**$0**
LABORATORY					
Salaries & Related	$0	$0	$0	$0	$0
Supplies	0	0	0	0	0
Maintenance	0	0	0	0	0
Services	0	0	0	0	0
Capital Outlay	0	0	0	0	0
TOTAL LABORATORY	**$0**	**$0**	**$0**	**$0**	**$0**
NON-DEPARTMENTAL					
Debt Service	$90,658	$91,986	$90,089	$89,845	$90,874
Transfers	0	0	0	0	0
Other Non-Departmental	851	870	892	921	954
TOTAL NON-DEPARTMENTAL	**$91,509**	**$92,856**	**$90,981**	**$90,766**	**$91,828**
TOTAL NON-RATE REVENUE	**$208,265**	**$208,265**	**$208,265**	**$208,265**	**$208,265**
TOTAL REVENUE REQUIREMENT	**$128,077**	**$139,871**	**$148,689**	**$160,023**	**$173,522**

Debt Service Help

<< < TOP NEXT >>>

23439

USER-DEFINED WATER RATE PROJECTIONS

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	Minimum Bill Increase	Minimum Bill Increase	Minimum Bill Increase	Minimum Bill Increase
PERCENT	0.00%	0.00%	0.00%	0.00%
DOLLAR	$ 2.00	$ -	$ -	$ -

Customer Class	Rate Year 2003 Minimum Bill	Rate Year 2004 Minimum Bill	Rate Year 2005 Minimum Bill	Rate Year 2006 Minimum Bill	Rate Year 2007 Minimum Bill
Residential	$16.60	$18.60	$18.60	$18.60	$18.60
Commercial	18.60	20.60	20.60	20.60	20.60
Residential Water Co	16.60	18.60	18.60	18.60	18.60
Commercial Water C	18.60	20.60	20.60	20.60	20.60
Danville Residential	16.60	18.60	18.60	18.60	18.60
Danville Commercial	18.60	20.60	20.60	20.60	20.60
Fini	18.60	20.60	20.60	20.60	20.60
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00

Estimated Annual Percentage Growth in Water Consumption 8%

	Volumetric Rate Increase	Volumetric Rate Increase	Volumetric Rate Increase	Volumetric Rate Increase
PERCENT	9.00%	0.00%	0.00%	0.00%
DOLLAR	$ -	$ -	$ -	$ -

Customer Class	Rate Blocks	Water Sold (Gallons)	Rate Year 2003 Volumetric Rate	Rate Year 2004 Volumetric Rate	Rate Year 2005 Volumetric Rate	Rate Year 2006 Volumetric Rate	Rate Year 2007 Volumetric Rate
Residential							
	0 - 2,000	14,845,060					
	2,001 - 3,000	6,224,903	$3.90	$4.25	$4.25	$4.25	$4.25
	3,001 - 4,000	5,187,240	3.90	4.25	4.25	4.25	4.25
	4,001 - 5,000	4,185,122	3.90	4.25	4.25	4.25	4.25
	5,001 - 15,000	12,876,646	4.85	5.29	5.29	5.29	5.29
	15,001 - 0	3,177,047	6.85	7.47	7.47	7.47	7.47
	0 - & above	0	0.00	0.00	0.00	0.00	0.00
Commercial							
	0 - 2,000	1,364,910					
	2,001 - 3,000	455,961	$3.90	$4.25	$4.25	$4.25	$4.25
	3,001 - 4,000	389,363	3.90	4.25	4.25	4.25	4.25
	4,001 - 5,000	331,579	3.90	4.25	4.25	4.25	4.25
	5,001 - 240,000	11,430,730	4.85	5.29	5.29	5.29	5.29
	240,001 - 0	854,868	6.85	7.47	7.47	7.47	7.47
	0 - & above	0	0.00	0.00	0.00	0.00	0.00
Residential Water Co.							
	0 - 2,000	1,223,695					
	2,001 - 3,000	574,312	$3.90	$4.25	$4.25	$4.25	$4.25
	3,001 - 4,000	552,684	3.90	4.25	4.25	4.25	4.25
	4,001 - 5,000	515,096	3.90	4.25	4.25	4.25	4.25
	5,001 - 15,000	3,205,913	4.85	5.29	5.29	5.29	5.29
	15,001 - 0	4,973,525	6.85	7.47	7.47	7.47	7.47
	0 - & above	0	0.00	0.00	0.00	0.00	0.00

23440

0 - 2,000	179,406					
2,001 - 3,000	67,139	$3.90	$4.25	$4.25	$4.25	$4.25
3,001 - 4,000	56,632	3.90	4.25	4.25	4.25	4.25
4,001 - 5,000	48,017	3.90	4.25	4.25	4.25	4.25
5,001 - 240,000	1,342,259	4.85	5.29	5.29	5.29	5.29
240,001 - 0	232,203	6.85	7.47	7.47	7.47	7.47
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 2,000	5,321,200					
2,001 - 3,000	2,559,136	$3.90	$4.25	$4.25	$4.25	$4.25
3,001 - 4,000	2,431,032	3.90	4.25	4.25	4.25	4.25
4,001 - 5,000	2,226,473	3.90	4.25	4.25	4.25	4.25
5,001 - 15,000	13,230,332	4.85	5.29	5.29	5.29	5.29
15,001 - 0	18,159,969	6.85	7.47	7.47	7.47	7.47
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 2,000	73,817					
2,001 - 3,000	33,354	$3.90	$4.25	$4.25	$4.25	$4.25
3,001 - 4,000	32,413	3.90	4.25	4.25	4.25	4.25
4,001 - 5,000	31,681	3.90	4.25	4.25	4.25	4.25
5,001 - 240,000	388,535	4.85	5.29	5.29	5.29	5.29
240,001 - 0	0	6.85	7.47	7.47	7.47	7.47
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 2,000	25,094					
2,001 - 3,000	12,547	$3.90	$4.25	$4.25	$4.25	$4.25
3,001 - 4,000	12,547	3.90	4.25	4.25	4.25	4.25
4,001 - 5,000	12,547	3.90	4.25	4.25	4.25	4.25
5,001 - 240,000	2,948,500	4.85	5.29	5.29	5.29	5.29
240,001 - 0	18,600,641	6.85	7.47	7.47	7.47	7.47
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00

Water Minimum Bill Revenue	$235,103	$284,158	$306,891	$331,442	$357,958
Water Volumetric Revenue	$636,555	$749,352	$809,300	$874,044	$943,968
Total Revenue	$871,658	$1,033,510	$1,116,191	$1,205,406	$1,301,925
Water Revenue Requirement	$860,776	$1,035,084	$1,088,503	$1,162,573	$1,201,229
Water Over/(Under) Recovery	**$10,882**	**($1,574)**	**$27,688**	**$42,913**	**$20,696**

USER-DEFINED WASTEWATER RATE PROJECTIONS

	Minimum Bill Increase	Minimum Bill Increase	Minimum Bill Increase	Minimum Bill Increase
PERCENT	0.00%	0.00%	0.00%	0.00%
DOLLAR	$ -	$ -	$ -	$ -

Customer Class	Rate Year 2003 Minimum Bill	Rate Year 2004 Minimum Bill	Rate Year 2005 Minimum Bill	Rate Year 2006 Minimum Bill	Rate Year 2007 Minimum Bill
Residential	$14.25	$14.25	$14.25	$14.25	$14.25
Commercial	14.25	14.25	14.25	14.25	14.25
Sewer Only	14.25	14.25	14.25	14.25	14.25
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00
-	0.00	0.00	0.00	0.00	0.00

Estimated Annual Percentage Growth in Wastewater Gallons Billed 8%

	Volumetric Rate Increase	Volumetric Rate Increase	Volumetric Rate Increase	Volumetric Rate Increase
PERCENT	0.00%	0.00%	0.00%	0.00%
DOLLAR	$ -	$ -	$ -	$ -

Customer Class	Rate Blocks	Gallons Billed	Rate Year 2003 Volumetric Rate	Rate Year 2004 Volumetric Rate	Rate Year 2005 Volumetric Rate	Rate Year 2006 Volumetric Rate	Rate Year 2007 Volumetric Rate
Residential							
	0 - 2,000	14,831,738					
	2,001 - 3,000	6,219,316	$3.30	$3.30	$3.30	$3.30	$3.30
	3,001 - 4,000	5,182,685	3.30	3.30	3.30	3.30	3.30
	4,001 - 5,000	4,181,366	3.30	3.30	3.30	3.30	3.30
	5,001 - 15,000	12,865,090	3.30	3.30	3.30	3.30	3.30
	15,001 - 0	0	0.00	0.00	0.00	0.00	0.00
	0 - & above	0	0.00	0.00	0.00	0.00	0.00
Commercial							
	0 - 2,000	1,364,910					
	2,001 - 3,000	455,961	$3.30	$3.30	$3.30	$3.30	$3.30
	3,001 - 4,000	389,363	3.30	3.30	3.30	3.30	3.30
	4,001 - 5,000	331,579	3.30	3.30	3.30	3.30	3.30
	5,001 - 50,000	5,665,795	3.30	3.30	3.30	3.30	3.30
	50,001 - 0	6,619,803	3.30	3.30	3.30	3.30	3.30
	0 - & above	0	0.00	0.00	0.00	0.00	0.00
Sewer Only							
	0 - 2,000	85,241					
	2,001 - 3,000	40,199	$3.30	$3.30	$3.30	$3.30	$3.30
	3,001 - 4,000	38,637	3.30	3.30	3.30	3.30	3.30
	4,001 - 5,000	37,492	3.30	3.30	3.30	3.30	3.30
	5,001 - 50,000	830,230	3.30	3.30	3.30	3.30	3.30
	50,001 - 0	3,527,955	3.30	3.30	3.30	3.30	3.30
	0 - & above	0	0.00	0.00	0.00	0.00	0.00
0							
	0 - 0	0					
	0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
	0 - 0	0	0.00	0.00	0.00	0.00	0.00
	0 - 0	0	0.00	0.00	0.00	0.00	0.00
	0 - 0	0	0.00	0.00	0.00	0.00	0.00
	0 - 0	0	0.00	0.00	0.00	0.00	0.00
	0 - & above	0	0.00	0.00	0.00	0.00	0.00

23442

0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
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0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0					
0 - 0	0	$0.00	$0.00	$0.00	$0.00	$0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - 0	0	0.00	0.00	0.00	0.00	0.00
0 - & above	0	0.00	0.00	0.00	0.00	0.00

Wastewater Minimum Bill Revenue	$144,442	$155,997	$168,477	$181,955	$196,511
Wastewater Volumetric Revenue	$153,072	$165,318	$178,543	$192,827	$208,253
Total Revenue	$297,514	$321,315	$347,020	$374,781	$404,764
Wastewater Revenue Requirement	$128,077	$139,871	$148,689	$160,023	$173,522
Wastewater Over/(Under) Recovery	**$169,437**	**$181,444**	**$198,331**	**$214,758**	**$231,242**

23443

COMBINED OVER/(UNDER) RECOVERY

Water Revenue	$871,658	$1,033,510	$1,116,191	$1,205,486	$1,301,925
Wastewater Revenue	$297,514	$321,315	$347,020	$374,781	$404,764
Total Revenue	$1,169,171	$1,354,825	$1,463,211	$1,580,268	$1,706,689
Revenue Requirement	$988,853	$1,174,955	$1,237,193	$1,322,597	$1,454,751
Over/(Under) Recovery	**$180,319**	**$179,870**	**$226,018**	**$257,671**	**$251,938**

<<< TOP

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Schedule 4

PROPOSED $2,605,000 - INSURED (ASSET GUARANTY)
CITY OF CELINA, TEXAS
WATER AND SEWER REVENUE BONDS, SERIES 2002
Debt Service Schedule

Date	Principal	Coupon	Interest	Period Total	Fiscal Total
3/ 1/ 3			82,057.50	82,057.50	
9/ 1/ 3			70,335.00	70,335.00	152,392.50
3/ 1/ 4			70,335.00	70,335.00	
9/ 1/ 4			70,335.00	70,335.00	140,670.00
3/ 1/ 5			70,335.00	70,335.00	
9/ 1/ 5			70,335.00	70,335.00	140,670.00
3/ 1/ 6			70,335.00	70,335.00	
9/ 1/ 6	75,000.00	5.400000	70,335.00	145,335.00	215,670.00
3/ 1/ 7			68,310.00	68,310.00	
9/ 1/ 7	80,000.00	5.400000	68,310.00	148,310.00	216,620.00
3/ 1/ 8			66,150.00	66,150.00	
9/ 1/ 8	85,000.00	5.400000	66,150.00	151,150.00	217,300.00
3/ 1/ 9			63,855.00	63,855.00	
9/ 1/ 9	85,000.00	5.400000	63,855.00	148,855.00	212,710.00
3/ 1/10			61,560.00	61,560.00	
9/ 1/10	90,000.00	5.400000	61,560.00	151,560.00	213,120.00
3/ 1/11			59,130.00	59,130.00	
9/ 1/11	95,000.00	5.400000	59,130.00	154,130.00	213,260.00
3/ 1/12			56,565.00	56,565.00	
9/ 1/12	105,000.00	5.400000	56,565.00	161,565.00	218,130.00
3/ 1/13			53,730.00	53,730.00	
9/ 1/13	135,000.00	5.400000	53,730.00	188,730.00	242,460.00
3/ 1/14			50,085.00	50,085.00	
9/ 1/14	140,000.00	5.400000	50,085.00	190,085.00	240,170.00
3/ 1/15			46,305.00	46,305.00	
9/ 1/15	150,000.00	5.400000	46,305.00	196,305.00	242,610.00
3/ 1/16			42,255.00	42,255.00	
9/ 1/16	155,000.00	5.400000	42,255.00	197,255.00	239,510.00
3/ 1/17			38,070.00	38,070.00	
9/ 1/17	165,000.00	5.400000	38,070.00	203,070.00	241,140.00
3/ 1/18			33,615.00	33,615.00	
9/ 1/18	225,000.00	5.400000	33,615.00	258,615.00	292,230.00
3/ 1/19			27,540.00	27,540.00	
9/ 1/19	235,000.00	5.400000	27,540.00	262,540.00	290,080.00
3/ 1/20			21,195.00	21,195.00	
9/ 1/20	250,000.00	5.400000	21,195.00	271,195.00	292,390.00
3/ 1/21			14,445.00	14,445.00	
9/ 1/21	260,000.00	5.400000	14,445.00	274,445.00	288,890.00
3/ 1/22			7,425.00	7,425.00	
9/ 1/22	275,000.00	5.400000	7,425.00	282,425.00	289,850.00
	2,605,000.00		1,994,872.50	4,599,872.50	
ACCRUED					
	2,605,000.00		1,994,872.50	4,599,872.50	

Dated 8/ 1/ 2 with Delivery of 8/ 1/ 2
Bond Years 36,942.083
Average Coupon 5.400000
Average Life 14.181222
N I C % 5.400000 % Using 100.0000000
T I C % 5.399285 % From Dated Date

Micro-Muni Debt Date: 07-10-2002 @ 14:36:55 Filename: CELINA Key: 02REVB1

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Schedule 5

PROPOSED $2,745,000 - INSURED (ASSET GUARANTY)
CITY OF CELINA, TEXAS
WATER AND SEWER REVENUE BONDS, SERIES 2003
Debt Service Schedule

Date	Principal	Coupon	Interest	Period Total	Fiscal Total
3/ 1/ 4			74,115.00	74,115.00	
9/ 1/ 4			74,115.00	74,115.00	148,230.00
3/ 1/ 5			74,115.00	74,115.00	
9/ 1/ 5			74,115.00	74,115.00	148,230.00
3/ 1/ 6			74,115.00	74,115.00	
9/ 1/ 6			74,115.00	74,115.00	148,230.00
3/ 1/ 7			74,115.00	74,115.00	
9/ 1/ 7	80,000.00	5.400000	74,115.00	154,115.00	228,230.00
3/ 1/ 8			71,955.00	71,955.00	
9/ 1/ 8	85,000.00	5.400000	71,955.00	156,955.00	228,910.00
3/ 1/ 9			69,660.00	69,660.00	
9/ 1/ 9	90,000.00	5.400000	69,660.00	159,660.00	229,320.00
3/ 1/10			67,230.00	67,230.00	
9/ 1/10	95,000.00	5.400000	67,230.00	162,230.00	229,460.00
3/ 1/11			64,665.00	64,665.00	
9/ 1/11	100,000.00	5.400000	64,665.00	164,665.00	229,330.00
3/ 1/12			61,965.00	61,965.00	
9/ 1/12	105,000.00	5.400000	61,965.00	166,965.00	228,930.00
3/ 1/13			59,130.00	59,130.00	
9/ 1/13	110,000.00	5.400000	59,130.00	169,130.00	228,260.00
3/ 1/14			56,160.00	56,160.00	
9/ 1/14	140,000.00	5.400000	56,160.00	196,160.00	252,320.00
3/ 1/15			52,380.00	52,380.00	
9/ 1/15	150,000.00	5.400000	52,380.00	202,380.00	254,760.00
3/ 1/16			48,330.00	48,330.00	
9/ 1/16	155,000.00	5.400000	48,330.00	203,330.00	251,660.00
3/ 1/17			44,145.00	44,145.00	
9/ 1/17	165,000.00	5.400000	44,145.00	209,145.00	253,290.00
3/ 1/18			39,690.00	39,690.00	
9/ 1/18	175,000.00	5.400000	39,690.00	214,690.00	254,380.00
3/ 1/19			34,965.00	34,965.00	
9/ 1/19	235,000.00	5.400000	34,965.00	269,965.00	304,930.00
3/ 1/20			28,620.00	28,620.00	
9/ 1/20	245,000.00	5.400000	28,620.00	273,620.00	302,240.00
3/ 1/21			22,005.00	22,005.00	
9/ 1/21	260 000.00	5.400000	22,005.00	282,005.00	304,010.00
3/ 1/22			14,985.00	14,985.00	
9/ 1/22	270,000.00	5.400000	14,985.00	284,985.00	299,970.00
3/ 1/23			7,695.00	7,695.00	
9/ 1/23	285,000.00	5.400000	7,695.00	292,695.00	300,390.00
	2,745,000.00		2,080,080.00	4,825,080.00	
ACCRUED					
	2,745,000.00		2,080,080.00	4,825,080.00	

Dated 9/ 1/ 3 with Delivery of 9/ 1/ 3
Bond Years 38 520.000
Average Coupon 5.400000
Average Life 14.032787
N I C % 5.400000 % Using 100.0000000
T I C % 5.400000 % From Dated Date

Micro-Muni Debt Date: 07-10-2002 @ 14:31:09 Filename: CELINA Key: 03REVB1

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Appendix B: Information regarding Meter Read Project from the City of Plano

The cost of this project fluctuates because the technology is evolving. What we are installing now is a different generation of product than we were installing at the beginning. And what we install next year will be different from what we are installing now. Also, there are some services that Datamatic has assumed that were not in the original contract. But the following will give the reader an idea of what to expect. The cost of the Firefly® meter interface unit (MIU) itself includes installation. The type of MIU required is dependent on the type of water meter.

Automated Meter Reading System (Vendor: Datamatic.Com)

	Qty Needed	Unit Cost
Firefly® (MIU) Sensor (stick-on optical read) **or**	1 per meter	$99 **or**
Firefly® (MIU) Sensor (wire-end)		$89
May require a wire-end connector ($3.50 and a Firefly® interface ($11.00) to install. Depends on whether the meter has electronic output already attached.		
RoadRunners® (hand-held computers) with Firefly® interrogation capability **or**	1 per meter reader	$3,960 **or**
Upgrade existing RoadRunners® to Firefly® interrogation capability		$1,800
Firefly® profile extraction unit	1 per system	$680
Firefly® configuration tester	1 per system	$450
RoadRunner® mobile system including software	1 per system	$19,995
RouteStar MVP for AMR application	1 per system	$6,995
Project Management (per hour)		$100

Plastic Meter Box Lids:

In addition to the Datamatic provided equipment, an option that will improve the performance of the system is plastic meter box lids as opposed to the cast iron lids. All new meter boxes are now equipped with plastic lids. The cost is born by the builder. We absorb the cost of replacing lids on existing boxes. We contract with Datamatic for the warehousing and installation of these lids.

Small plastic meter box lid (residential and small commercial meters) **or**	1 per meter	$12 **or**
Large plastic meter box lid (large commercial meters)		$20 - $33
Installation by Datamatic	Per meter	$2.25
Warehousing cost by Datamatic		$19,500

Water Meters:

Where funds allow, we are replacing meter boxes older than 4 years with a new water meter prior to attaching the Firefly®. We will then leave this meter in place for the life of the Firefly® (anticipated to be 12 years) and replace both the meter and the Firefly® at the same time at the end of the period. We are not including meter replacement as a part of the cost of this project, as the cost will ultimately be the same as our normal water meter replacement program.

Conversion Costs:

There are no additional conversion costs specifically related to AMR to interface meter reading with the billing system. The interface was already in place. The only thing that changed was the manner in which the meter reading is collected. This is transparent to the billing system.

Additional Equipment:

Our cost does not include all items we have received. We beta test products for Datamatic, and in return, we receive some products at a lower cost, and in some cases, at no cost. We have a second RoadRunner® mobile system which was a prototype and now sells for $19,955. The system requires only one, but this second unit enables us to have more than one person collecting meter readings at a time, and provides us with a back-up

unit in case the other unit is down for repair. We also have several more interrogation-ready RoadRunners® than we have paid for. They are considered to be on long-term loan to us.

Purchasing Procedure:

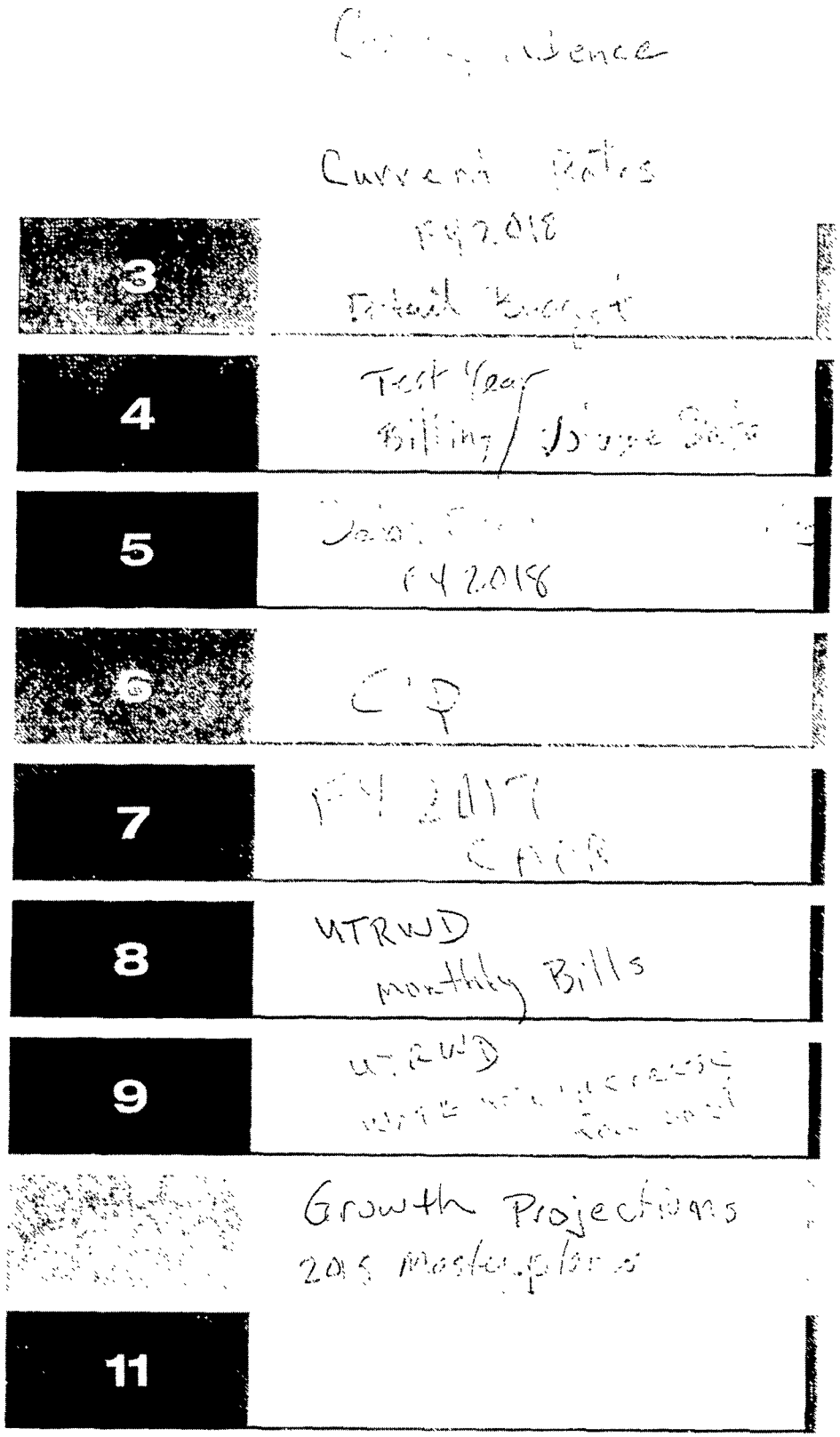
AMR systems are unique to vendors and to meter reading systems. Therefore, we purchased our system through the QISV process. This is for technical products and services. Vendors register their product/service with the State, and public entities can purchase from this state list without soliciting bids.

Contact information:

If you want more information about the products we used and their cost to you we refer you to the following:

System information:
Datamatic.Com
Andy Kercher, Senior Vice President
akercher@datamatic.com
972-234-5000
1-800-880-2878

Plastic meter box lid information:
Jeff Nielsen, representative for DFW Plastics
214-505-0802


Current Rates
FY 2018
Tentative Budget
3
Test Year
Billing / Usage Data
4
5
FY 2018
6
CIP
7
8
UTRWD
Monthly Bills
9
Growth Projections
2015 Master Plan
11

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1.

Correspondence

23451

WILLDAN
FINANCIAL SERVICES

MEMORANDUM

Date: **August 27, 2018**

To: **File**

From: Daniel Lanning

Re: **Celina Meeting**
Jason Laumer
Jay Touchinian
Paul DeBuff
Alan Fourmentin
Kimberly Brawner

Dan J. gave revised presentation regarding current and forecast water wastewater accounts, billing units, financials and rates, as well as how Celina water and wastewater rates compare with other local community's rates.

The presentation included two of the four rate structure alternatives investigated by Willdan. The four alternatives included:

Rate Design Alternative 1
Convert residential sewer rates to winter averaging. The residential customer is charged 100% of their monthly metered water up to a 14,000 gallon cap.

Rate Design Alternative 2
Changing commercial customer's multi-tier inclining block volume rates to a uniform rate per 1,000 gallons.

Rate Design Alternative 3
Change the rate charged to Light Farms area from residential outside to residential inside rate.

Rate Design Alternative 4
Should the City charge residential ¾" and 1" customers the same minimum fee?

In the previous meeting (July 10, 2018) the staff decided to eliminate Alternatives 1 and 3. In this meeting it was decided not to suggest any rate structure changes. Since the City was planning an aggressive capital improvement plan over the next ten years ($164 million), it would be too much to bring up changes to rate structure and explain impacts on customers while

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seeking approval for the CIP and debt issues need to fund the CIP. Therefore, the rate plan presentation and report to City Council will not address rate structure changes.

However, in lieu of changing to a winter averaging method for billing residential sewer accounts (Alternative #1), the staff would like to "ratchet" down the 14,000 gallons monthly cap by 1,000 gallons each year until it reaches 10,000 or 9,000 gallons. Since the average monthly use by residential customers never exceeded 10,000 gallons over the twelve month test year used in the rate study, 10,000 – 9,000 gallons is an appropriate cap for the City residential customers.

In addition, the staff decided that instead of changing ¾" meter monthly charge to equal 1" meter monthly charge they will grandfather the ¾" meter monthly charge. They are no longer installing ¾" meters for residential customers. 1" is the smallest meter the City will install.

Staff asked that **presentation slide #18** include some clarification that the UTRWD increases presented represent % increases in total annual cost, not just % increase in UTRWD rates.

When discussing **presentation slide #21** staff asked that Willdan point out the reinvestment in Downtown.

The staff plans on holding a City council workshop for the rate plan in October. They will get back to us on the date when it is scheduled. Rate plan approval will be in November.

WILLDAN
FINANCIAL SERVICES

MEMORANDUM

Date: **July 10 2018**

To: **File**

From: Daniel Lanning

Re: **Celina Meeting**
Jason Laumer
Jay Touchinian
Paul DeBuff

Dan J. gave prepared presentation regarding current and forecast water wastewater accounts, billing units, financials and rates, as well as how Celina water and wastewater rates compare with other local community's rates.

Rate Comparisons
Staff would like us to add Mustang SUD and Marilee SUD to the water/WW monthly bill survey.

Population Projections
Staff would prefer we use the city population as opposed to the City water system's entire service area (including SUDs and MUDs).

However, they agree with the percentage annual growth we are using. Including the number of new water accounts per year. Note the City is adding about 200 new water customers per month.

Water Resources
The staff now believes that the NTMWD wholesale option for both water and sewer service is has no clear advantage. They agree with our UTRWD increased costs and purchasing estimates.

Jay will provide additional information on UTRWD recent increase in demand and volume charges.

CIP and Debt
The staff has revised and expanded the water and sewer CIP. Our current estimates only have CIP projects up to 2020. They now have clear estimates through 2023 and potential projects for the next 10 years. This will require additional debt issue estimates. We are to increase water

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rates to determine how much additional debt can be issued while limiting the increase to 4% annually.

Additionally, the City currently does not use impact fee revenue to pay for growth related CIP projects. The staff will use the Impact Fee revenue as needed to pay for growth related projects.

The 2018-2019 $32 Million in debt used to fund the CIP we have already been given will be issued on Sept 30th, 4.1% interest, 25 year term, fixed payment. The first payment will be due in Feb. 2019.

There will also be a refinance of $4 million GO bonds in 2020. We need to add this to the current debt.

Non-Rate Revenue

Staff agrees that connection fee revenue contributes substantially toward reducing the need for rate increases and that it will be declining as the rate of customer growth declines. They accept our estimates in the financial plan.

Rate Design Alternative 1

The staff agreed that there is no need to convert sewer rates to winter averaging. Most customers are satisfied with the 14,000 gallon cap currently approved.

Rate Design Alternative 2

Changing commercial customer's multi-tier inclining block volume rates to a uniform rate per 1,000 gallons will increase some small user commercial customers too much. It was decided to phase in an increase in the first 3 tiers until all of the tier rates are equal to the final "30,000 and above" tier rate.

Rate Design Alternative 3

Staff decided not to change the rate charged to Light Farms area from residential outside to residential inside rate. The change would create too large a loss in revenue.

Rate Design Alternative 4

Should the City charge residential ¾" and 1" customers the same minimum fee? Staff would like to increase ¾" meter minimum by an additional amount each year until it equals the 1" meter minimum charge.

Colin   Date 7/10/18

Add Mustang SUD
Mangolee Water

Revise Population based on #'s Jason [illegible]

City Agrees with [illegible] projections
doing 200 New accounts a month Currently

agree with [illegible] per month

sewer - Customers happy w/ 14,000 GAL sewer
cap - vs. winter ave

Discussion NTMWD water [illegible]
Agree no

Agree with NTMWD forecast % [illegible]

Have revised CIP through 2023 +
some #'s 10 years out - They will provide

impact fees not included in CIP [illegible]
right Now - Need to know what [illegible] be
[illegible]

revise CF -> Debt will be issued Sept. 30 $32 Mill
4.1% interest 25 years. Fixed [illegible]
first due Feb. '19

23456

23456