

Utility Rate & Fee Study

St. Mary's Metropolitan Commission

Water & Sewer Rate Presentation February 11, 2016

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Summary of Recent Rate Study

Objectives & Scope

- ▶ Perform a comprehensive analysis of the rates/fees for:
 - Water and Sewer Operations (General Fund)
 - ► Excludes System Improvement & Capital Contribution Charges
- Develop multi-year projection model for use by staff
 - To be updated annually as part of the budget process
- Core components of the study:
 - Revenue Sufficiency Analysis
 - Established two-part reserve target (operating and capital liquidity)
 - Identified plans of annual rate increases based upon projected costs
 - Rate Structure Modifications
 - Better conform to industry practice, enhance affordability for low volume/typical users, and promote conservation from high volume users

Revenue Sufficiency Analysis

- ▶ Identified Plans of Rate Revenue Increases That:
 - Fund annual operating requirements of each system
 - Achieve/maintain recommended reserve levels
 - Were very comparable to national industry trends (Water & Sewer CPI)

Service	FY 15	FY 16*	FY 17	FY 18	FY 19
Effective Date	7/1/14	7/1/15	7/1/16	7/1/17	7/1/18
Water	0.00%	3.00%*	3.00%	3.00%	3.00%
Sewer	3.67%	3.75%*	3.75%	3.75%	3.75%
Combined	2.40%	3.50%*	3.50%	3.50%	3.50%

*Recommended rate structure modifications to recover the amount of additional revenue that resulted in changes to rates that affected customers differently depending upon their meter size and water use

Rate Structure Modifications

Establish monthly readiness-to-serve charge

- Recover portion of fixed costs of system from users based upon potential demand
- Scale fee based upon size of meter using AWWA maximum flow rates
- Very common industry practice; provides fiscal stability

Remove minimum monthly billed usage amount

- ▶ Bill actual consumption based upon recommended usage rates
- Avoids low volume users paying for something they don't use

Establish an inclining block water usage rate structure

- Provides affordability for low/average users and promotes water conservation
- First tier: Essential domestic requirements for typical residence (lowest rate)
- Second tier: Reasonable amount of irrigation for typical residence (higher rate)
- Third tier: All remaining usage (highest rate)
- Amount of usage in each tier scaled by meter size

Updated non-metered service rates

- Equal to readiness-to-serve charge plus usage charges for typical user (5,000 gal.)
- ▶ Bill residential sewer accounts metered rates (currently billed non-metered rates)

Single-Family Residential Customer Impact Analysis

Single Family 5/8" Meter Monthly Water & Sewer Bill Calculations							
Monthly Use (Gal)	% of Bills (FY 2013)	Agg. % of Bills (FY 2013)	FY 14/15	FY 15/16	\$ Chg		
0	1.4%	1.4%	\$ 54.25	\$ 23.90	\$ (30.35)		
1,000	5.2%	6.6%	\$ 54.25	\$ 29.61	\$ (24.64)		
2,000	10.5%	17.0%	\$ 54.25	\$ 35.32	\$ (18.93)		
3,000	13.9%	30.9%	\$ 54.25	\$ 41.03	\$ (13.22)		
4,000	15.6%	46.5%	\$ 54.25	\$ 46.74	\$ (7.51)		
5,000	13.8%	60.3%	\$ 54.25	\$ 52.45	\$ (1.80)		
6,000	12.4%	72.7%	\$ 54.25	\$ 59.69	\$ 5.44		
7,000	7.7%	80.3%	\$ 57.32	\$ 66.93	\$ 9.61		
8,000	5.3%	85.6%	\$ 60.39	\$ 74.17	\$ 13.78		
9,000	3.5%	89.2%	\$ 63.46	\$ 81.41	\$ 17.95		
10,000	2.5%	91.7%	\$ 66.53	\$ 88.65	\$ 22.12		
15,000	0.6%	97.0%	\$ 81.88	\$124.85	\$ 42.97		
20,000	0.3%	98.7%	\$ 97.23	\$161.05	\$ 63.82		
25,000	0.1%	99.4%	\$112.58	\$212.55	\$ 99.97		

99.8%

\$127.93

\$264.05

\$136.12

Notes:

- Bills do not include system improvement charges
- Residential accounts (single & multi-family) represent 94% of MetCom's customer base

30,000

0.1%

Summary of Rate Study Update

Objectives & Scope

- ▶ Perform a limited analysis of the rates/fees for:
 - Water and Sewer Operations (General Fund)
 - ► Excludes System Improvement & Capital Contribution Charges
- Assist in updating multi-year financial forecasting model
 - Identify level of rate increases for FY 2017
 - Update future rate increase projections
- Identify and evaluate solutions to customer concerns relative to impacts of new rate structure
 - Incorporate financial impacts into multi-year forecasting model

Revenue Sufficiency Analysis

- Identified updated plans of rate revenue increases that:
 - Fund annual operating requirements of each system and maintain reserves
 - Mitigates risk/impact of potential changes in demand due to new rate structure
 - Account for all changes and most current information since prior study
 - > Positive performance vs projections lower near-term rate increase requirements
 - Two scenarios: with and without rate structure modifications intended to address recent customer concerns on new rate structure

Option A: No rate structure changes

Option B: With rate structure modifications

▶ Prior Study: Water at 3% per year; Sewer at 3.75% per year; 3.5% combined

Revenue Sufficiency Analysis

Option A	FY 17	FY 18	FY 19	FY 20	FY 21
Effective Date	7/1/16	7/1/17	7/1/18	7/1/19	7/1/20
Water	1.75%	1.75%	3.50%	3.50%	3.50%
Sewer	0.00%	0.00%	3.50%	3.50%	3.50%
Combined	0.60%	0.60%	3.50%	3.50%	3.50%
Option B	FY 17	FY 18	FY 19	FY 20	FY 21
Effective Date	7/1/16*	7/1/17	7/1/18	7/1/19	7/1/20
Water	1.75%*	1.75%	3.50%	3.50%	3.50%
Sewer	3.75%*	3.75%	3.50%	3.50%	3.50%
Combined	3.00%*	3.00%	3.50%	3.50%	3.50%

- *Includes impact of recommended rate structure modifications to address certain customer concerns on current rate structure
- Prior Study: Water at 3% per year; Sewer at 3.75% per year; 3.5% combined

Option B Rate Structure Modifications

Establish a residential sewer "cap" or maximum gallons

- Is a fairly common industry-accepted practice (areas without irrigation meters)
- ▶ Industry range is generally between 6,000 15,000 gallons per month
- Recommendation for Metcom is 10,000 gallons per month
 - ▶ Based upon EPA indoor water use requirements of 65-70 gpd / person for 5 people
- Expected to result in \$500-600k of revenue loss (factored into financial plan)
- Should help address concerns of many residential customers that irrigate

▶ No readiness-to-serve charge on irrigation-only meter

- Continue to allow second meter for irrigation purposes
- ▶ However, since existing meter could meet all capacity needs, 2nd meter is not increases demands on system; therefore no readiness-to-serve charge
- Same reason for not applying capital contribution charges
- Do charge meter installation/connection fees
- Provides additional fairness and equity to those with irrigation demands

Single-Family Residential Customer Impact Analysis – Both Options

Single Family 5/8" Meter Monthly Water & Sewer Bill Calculations								
	nthly (Gal)	% of Bills (FY 2013)	Agg. % of Bills (FY 2013)	<u>Current</u>	Option A	<u>\$ Chg</u>	Option B	\$ Chg
	0	1.4%	1.4%	\$ 23.90	\$ 24.05		\$ 24.63	\$ 0.73
1,0	000	5.2%	6.6%	\$ 29.61	\$ 29.79	\$ 0.18	\$ 30.52	\$ 0.91
2,0	000	10.5%	17.0%	\$ 35.32	\$ 35.52	\$ 0.20	\$ 36.41	\$ 1.09
3,0	000	13.9%	30.9%	\$ 41.03	\$ 41.26	\$ 0.23	\$ 42.31	\$ 1.28
4,0	000	15.6%	46.5%	\$ 46.74	\$ 47.00	\$ 0.26	\$ 48.20	\$ 1.46
5,0	000	13.8%	60.3%	\$ 52.45	\$ 52.73	\$ 0.28	\$ 54.09	\$ 1.64
6,0	000	12.4%	72.7%	\$ 59.69	\$ 60.03	\$ 0.34	\$ 61.54	\$ 1.85
7,0	000	7.7%	80.3%	\$ 66.93	\$ 67.32	\$ 0.39	\$ 68.99	\$ 2.06
8,0	000	5.3%	85.6%	\$ 74.17	\$ 74.61	\$ 0.44	\$ 76.44	\$ 2.27
9,0	000	3.5%	89.2%	\$ 81.41	\$ 81.91	\$ 0.50	\$ 83.89	\$ 2.48
10,	000	2.5%	91.7%	\$ 88.65	\$ 89.20	\$ 0.55	\$ 91.35	\$ 2.70
15,	000	0.6%	97.0%	\$124.85	\$125.67	\$ 0.82	\$106.91	\$ (17.94)
20,	000	0.3%	98.7%	\$161.05	\$162.14	\$ 1.09	\$122.48	\$ (38.57)
25,	000	0.1%	99.4%	\$212.55	\$214.17	\$ 1.62	\$153.62	\$ (58.93)
30,	000	0.1%	99.8%	\$264.05	\$266.21	\$ 2.16	\$184.75	\$ (79.30)

Customer Impact Analysis – With System Improvement Charges

Single Family 5/8" Meter Monthly Water & Sewer Bill Calculations

Monthly	Agg. % of Bills	Agg. % of Bills			4.01		4 0 1
Use (Gal)	(FY 2013)	(FY 2016)	<u>Current</u>	Option A	<u>\$ Chg</u>	Option B	\$ Chg
2,000	17.0%	25.1%	\$ 60.13	\$ 61.18	\$ 1.05	\$ 62.07	\$ 1.94
5,000	60.3%	64.5%	\$ 77.26	\$ 78.39	\$ 1.13	\$ 79.75	\$ 2.49
6,000	72.7%	72.2%	\$ 84.50	\$ 85.69	\$ 1.19	\$ 87.20	\$ 2.70
7,000	80.3%	77.8%	\$ 91.74	\$ 92.98	\$ 1.24	\$ 94.65	\$ 2.91
10,000	91.7%	86.9%	\$113.46	\$114.86	\$ 1.40	\$117.01	\$ 3.55
15,000	97.0%	93.9%	\$149.66	\$151.33	\$ 1.67	\$132.57	\$ (17.09)
20,000	98.7%	97.3%	\$185.86	\$187.80	\$ 1.94	\$148.14	\$ (37.72)
30,000	99.8%	100.0%	\$288.86	\$291.87	\$ 3.01	\$210.41	\$ (78.45)

Questions & Discussion

