

# SECTION 6 – Customer Rate Impacts

## Metropolitan St. Louis Sewer District WASTEWATER AND STORMWATER RATE CHANGE PROPOSAL

**Figure 6-1 Raftelis Bill Comparison**

Survey of Typical Monthly Wastewater Bill - 50 Largest US Cities													
Residential													
Non-Residential													
Meter Size	Small			Medium			Large			Commercial		Industrial	
	5/8"	5/8"	3/4"	5/8"	5/8"	3/4"	5/8"	5/8"	3/4"	1"	2"	1"	2"
Gallons	4,488			5,984			11,221			74,805	7,480,500		
Ccf	6.0	Rank		8.0	Rank		15.0	Rank		100.0	Rank	10000.0	Rank
Population Rank	(\$)			(\$)			(\$)			(\$)		(\$)	
Albuquerque	32	NM	13.10	50	16.47	50	28.24	46		174.10	45	17,128.35	45
Arlington	50	TX	37.79	25	45.85	26	74.08	27		428.64	28	40,414.78	29
Atlanta	38	GA	76.70	5	108.08	4	217.91	3	1,551.56	2	156,882.56	2	
Austin	11	TX	59.76	11	79.64	8	147.87	9	920.30	8	91,010.30	8	
Bakersfield	48	CA	18.36	47	18.36	49	18.36	50	169.00	46	16,900.00	46	
Baltimore	30	MD	72.37	7	91.99	7	169.66	7	1,028.29	6	98,282.40	6	
Boston	24	MA	45.12	17	62.36	14	117.00	13	813.00	10	77,295.00	9	
Charlotte	16	NC	46.93	14	57.85	16	96.07	18	573.16	18	54,675.24	18	
Chicago	3	IL	19.43	45	25.91	42	48.59	39	323.91	38	32,390.57	37	
Colorado Springs	40	CO	31.55	30	36.89	36	55.58	37	355.76	35	32,530.76	36	
Columbus	14	OH	45.46	16	55.66	17	91.36	20	524.86	22	55,014.86	17	
Dallas	9	TX	30.52	36	39.00	34	70.36	28	369.81	34	36,012.96	34	
Denver	19	CO	38.99	23	47.06	24	82.73	25	440.81	26	40,512.77	28	
Detroit	27	MI	31.20	33	39.49	31	68.50	31	429.71	27	41,476.95	26	
El Paso	23	TX	31.49	31	39.05	33	65.51	33	422.84	29	37,951.79	31	
Fort Worth	13	TX	31.87	29	40.21	30	69.70	29	421.75	30	40,642.19	27	
Fresno	34	CA	25.75	40	25.75	43	25.75	47	197.30	44	19,730.00	44	
Houston	4	TX	56.00	12	77.00	9	150.50	8	641.01	16	62,487.47	15	
Indianapolis	15	IN	61.13	9	73.01	11	120.99	12	716.58	13	70,015.95	12	
Jacksonville	12	FL	45.96	15	58.74	15	110.52	14	530.88	21	47,969.60	23	
Kansas City	36	MO	86.81	4	107.29	5	178.97	6	1,049.37	5	102,425.37	5	
Las Vegas	26	NV	20.50	43	20.50	45	20.50	48	-	-	-	-	-
Long Beach	42	CA	9.80	51	10.58	51	13.34	51	50.28	48	3,979.74	48	
Los Angeles	2	CA	34.80	26	46.40	25	87.00	23	580.00	17	58,000.00	16	
Louisville	29	KY	44.17	18	52.28	20	80.67	26	508.88	23	48,863.79	21	
Memphis	28	TN	14.90	48	19.87	46	37.25	41	248.35	41	24,835.26	40	
Mesa	37	AZ	28.58	39	33.34	38	49.99	38	267.26	40	25,150.40	39	
Miami	44	FL	29.02	38	43.34	27	93.45	19	735.67	12	73,260.10	10	
Milwaukee	31	WI	18.57	46	22.63	44	36.84	43	214.10	43	20,319.19	43	
Minneapolis	46	MN	38.82	24	49.16	22	89.25	21	536.50	20	51,762.40	20	
Nashville	21	TN	34.78	27	47.68	23	123.72	10	683.49	14	64,627.65	14	
New York City	1	NY	40.98	21	54.64	18	102.45	16	683.00	15	68,300.00	13	
Oakland	45	CA	24.53	41	27.27	41	28.64	45	156.67	47	13,719.67	47	
Oklahoma City	22	OK	30.63	35	38.06	35	64.85	34	385.82	32	37,202.57	32	
Omaha	39	NE	66.09	8	73.69	10	100.29	17	294.24	39	20,657.48	42	
Philadelphia	6	PA	31.48	32	39.46	32	69.47	30	413.10	31	39,938.25	30	
Phoenix	5	AZ	14.84	49	19.79	48	37.10	42	220.00	42	22,000.00	41	
Portland	25	OR	74.10	6	98.80	6	185.25	5	1,257.00	3	121,740.00	3	
Raleigh	41	NC	40.36	22	49.70	21	87.53	22	494.70	24	46,783.97	25	
Sacramento	35	CA	19.85	44	19.85	47	19.85	49	-	-	-	-	-
San Antonio	7	TX	22.29	42	28.93	40	56.07	36	348.41	36	32,739.21	35	
San Diego	8	CA	43.16	19	52.73	19	86.23	24	493.04	25	47,874.44	24	
San Francisco	17	CA	101.03	2	132.97	2	244.76	2	951.21	7	94,605.21	7	
San Jose	10	CA	41.64	20	41.64	29	41.64	40	829.00	9	48,400.00	22	
Seattle	18	WA	105.78	1	141.04	1	264.45	1	1,763.00	1	176,300.00	1	
Tucson	33	AZ	34.77	28	42.03	28	67.44	32	375.90	33	36,303.00	33	
Tulsa	47	OK	54.92	13	69.91	13	122.38	11	763.09	11	70,049.99	11	
Virginia Beach	43	VA	30.81	34	30.81	39	30.81	44	39.32	49	117.98	49	
Washington, D.C.	20	DC	89.58	3	112.10	3	191.12	4	1,148.72	4	112,625.71	4	
Wichita	49	KS	29.71	37	36.04	37	58.19	35	327.16	37	31,653.25	38	
<b>St. Louis MSD</b>		<b>MO</b>	<b>60.36</b>	<b>10</b>	<b>71.06</b>	<b>12</b>	<b>108.51</b>	<b>15</b>	<b>567.97</b>	<b>19</b>	<b>53,532.97</b>	<b>19</b>	
Median			34.80		45.85		80.67		440.81		41,476.95		
Average			41.90		52.39		90.34		537.62		51,315.53		

(a) Las Vegas and Virginia Beach Commercial Rates are based on the type of business and number of fixtures. Each customer will have a different rate.  
 (b) Oklahoma City Rates are based on a meter multiplier. This must be combined with the base rate in order to calculate an exact bill.  
 (c) Sacramento's commercial sewer rate is charged based on a factor associated with square footage, not consumption as in our analysis.  
 (d) Half of Washington's combined Water and Sewer Metering Fee is included.

# SECTION 7 – Alternative Proposed Wastewater Rates

Metropolitan St. Louis Sewer District  
WASTEWATER AND STORMWATER RATE CHANGE PROPOSAL

**Table 7-4 Typical Wastewater Bills under No Bonds Alternative**

Line	Wastewater Bill Impacts	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
		Actual	Current	Approved	Proposed	Proposed	Proposed	Proposed
<b>Single Family Residential (Metered)</b>								
1	1 Ccf per month	\$ 32.48	\$ 33.61	\$ 34.84	\$ 45.22	\$ 61.06	\$ 48.86	\$ 51.32
2	3 Ccf per month	42.82	44.31	45.94	61.24	82.70	66.18	69.52
3	5 Ccf per month	53.16	55.01	57.04	77.26	104.34	83.50	87.72
4	\$ Increase	-	1.85	2.03	20.22	27.08	(20.84)	4.22
5	% Increase	0.0%	3.5%	3.7%	35.4%	35.1%	-20.0%	5.1%
6	6 Ccf per month	58.33	60.36	62.59	85.27	115.16	92.16	96.82
7	10 Ccf per month	79.01	81.76	84.79	117.31	158.44	126.80	133.22
8	15 Ccf per month	104.86	108.51	112.54	157.36	212.54	170.10	178.72
9	20 Ccf per month	130.71	135.26	140.29	197.41	266.64	213.40	224.22
10	30 Ccf per month	182.41	188.76	195.79	277.51	374.84	300.00	315.22
11	50 Ccf per month	285.81	295.76	306.79	437.71	591.24	473.20	497.22
12	100 Ccf per month	544.31	563.26	584.29	838.21	1,132.24	906.20	952.22
<b>Multi-Family Residential (Metered)</b>								
13	20 Ccf per month	\$ 130.71	\$ 135.26	\$ 140.29	\$ 197.41	\$ 266.64	\$ 213.40	\$ 224.22
14	40 Ccf per month	234.11	242.26	251.29	357.61	483.04	386.60	406.22
15	60 Ccf per month	337.51	349.26	362.29	517.81	699.44	559.80	588.22
16	250 Ccf per month	1,319.81	1,365.76	1,416.79	2,039.71	2,755.24	2,205.20	2,317.22
17	1,000 Ccf per month	5,197.31	5,378.26	5,579.29	8,047.21	10,870.24	8,700.20	9,142.22
<b>Non-Residential (Normal Strength)</b>								
18	70 Ccf per month	\$ 393.76	\$ 407.47	\$ 422.64	\$ 605.35	\$ 815.40	\$ 654.40	\$ 687.44
19	100 Ccf per month	548.86	567.97	589.14	845.65	1,140.00	914.20	960.44
20	160 Ccf per month	859.06	888.97	922.14	1,326.25	1,789.20	1,433.80	1,506.44
21	1,000 Ccf per month	5,201.86	5,382.97	5,584.14	8,054.65	10,878.00	8,708.20	9,150.44
22	2,500 Ccf per month	12,956.86	13,407.97	13,909.14	20,069.65	27,108.00	21,698.20	22,800.44
<b>Non-Residential (Extra Strength) (1)</b>								
23	70 Ccf per month	\$ 611.24	\$ 632.31	\$ 653.84	\$ 996.64	\$ 1,272.73	\$ 1,075.55	\$ 1,124.03
24	100 Ccf per month	794.90	822.33	850.69	1,290.53	1,669.68	1,393.22	1,457.80
25	160 Ccf per month	1,133.65	1,172.85	1,214.05	1,824.72	2,391.22	1,970.70	2,064.57
26	1,000 Ccf per month	5,562.11	5,755.41	5,967.11	8,713.88	11,697.05	9,418.72	9,890.88
27	2,500 Ccf per month	13,516.99	13,987.05	14,504.60	21,104.00	28,433.46	22,813.85	23,966.26

(1) TSS and BOD strengths for these five examples are assumed to be 150, 200, 250, 400, and 750 mg/l above the normal strength limits.