

Table 3-10
Projected Wastewater Debt Service Requirements

Fiscal Year	Existing Revenue Bonds	Proposed Revenue Bonds	Existing SRF Loans	Proposed SRF Loans	Commercial Paper Notes	Total
	\$	\$	\$	\$	\$	\$
Payments to Sinking Fund						
2011	19,290,600	0	19,113,700	0	0	38,404,300
2012	19,415,200	2,622,700	21,311,100	1,711,000	0	45,060,000
2013	19,550,800	16,611,100	21,401,300	4,062,800	0	61,626,000
2014	19,686,000	28,436,100	21,483,500	6,307,900	0	75,913,500
2015	19,834,400	39,436,100	21,355,600	8,553,000	0	89,179,100
2016	19,973,200	47,136,100	21,728,600	10,797,800	0	99,635,700
Payments to Bondholders						
2011	19,270,300	0	18,292,600	0	0	37,562,900
2012	19,392,400	1,430,600	20,232,600	500,000	0	41,555,600
2013	19,528,800	9,736,100	21,395,200	3,003,300	0	53,663,400
2014	19,660,900	22,523,600	21,345,500	5,248,400	0	68,778,400
2015	19,811,800	33,936,100	21,545,900	7,493,500	0	82,787,300
2016	19,947,200	43,286,100	21,324,600	9,738,600	0	94,296,500

**Table 3-11
Comparison of Projected Wastewater Revenue Under Existing
Rates With Projected Revenue Requirements**

Line No.	Description	Fiscal Year Ending June 30,						2013 - 2016	2011 - 2016
		2011	2012	2013	2014	2015	2016	4-Year Total	6-Year Total
		\$	\$	\$	\$	\$	\$	\$	
1	Revenue Under Existing Rates (a)	213,795,600	212,030,000	211,019,700	210,681,800	210,501,800	210,431,800	842,635,100	1,268,460,700
	Additional Revenue Required								
	Fiscal Year	Revenue Increase	Months Effective						
2	2012	4.3%	12	8,357,500	9,073,800	9,059,300	9,051,600	9,048,600	36,233,300
3	2013	8.5%	12		17,149,000	18,678,000	18,662,000	18,655,800	73,144,800
4	2014	11.5%	12			25,133,300	27,394,800	27,385,700	79,913,800
5	2015	11.3%	12				27,512,800	30,004,000	57,516,800
6	2016	11.6%	12					31,424,300	31,424,300
7	Total Additional Revenue	0	8,357,500	26,222,800	52,870,600	82,621,200	116,518,400	278,233,000	286,590,500
8	Total Service Charge Revenue	213,795,600	220,387,500	237,242,500	263,552,400	293,123,000	326,950,200	1,120,868,100	1,555,051,200
9	Other Operating Revenue	(750,500)	3,382,400	1,427,200	527,800	(495,500)	(1,672,500)	(213,000)	2,418,900
10	Connection Fee Revenue	1,250,000	1,288,000	1,327,000	1,367,000	1,408,000	1,450,000	5,552,000	8,090,000
11	Interest Income - Reserve Funds	888,800	956,900	1,147,200	1,384,600	1,603,700	1,782,000	5,917,500	7,763,200
12	Interest Income - Operations	30,800	50,600	52,800	49,800	51,300	51,100	205,000	286,400
13	Interest Income - Arnold	650,700	631,000	610,500	589,100	566,800	543,600	2,310,000	3,591,700
14	Subtotal Other Revenue	2,069,800	6,308,900	4,564,700	3,918,300	3,134,300	2,154,200	13,771,500	22,150,200
15	Total Revenue	215,865,400	226,696,400	241,807,200	267,470,700	296,257,300	329,104,400	1,134,639,600	1,577,201,400
16	Operation and Maintenance Expense	134,394,800	138,803,800	145,469,000	151,971,700	156,751,700	162,141,600	616,334,000	889,532,600
17	Additional O&M (b)	0	0	112,400	2,159,800	7,484,100	7,942,500	17,698,800	17,698,800
18	Net Revenue	81,470,600	87,892,600	96,225,800	113,339,200	132,021,500	159,020,300	500,606,800	669,970,000
	Debt Service								
19	Existing Senior Revenue Bonds	19,290,600	19,415,200	19,550,800	19,686,000	19,834,400	19,973,200	79,044,400	117,750,200
20	Proposed Senior Revenue Bonds	0	2,622,700	16,611,100	28,436,100	39,436,100	47,136,100	131,619,400	134,242,100
21	Total Senior Revenue Bonds	19,290,600	22,037,900	36,161,900	48,122,100	59,270,500	67,109,300	210,663,800	251,992,300
22	Existing State Revolving Fund Loans (c)	19,113,700	21,311,100	21,401,300	21,483,500	21,355,600	21,728,600	85,969,000	126,393,800
23	Proposed State Revolving Fund Loans (c)	0	1,711,000	4,062,800	6,307,900	8,553,000	10,797,800	29,721,500	31,432,500
24	Total State Revolving Fund Loans	19,113,700	23,022,100	25,464,100	27,791,400	29,908,600	32,526,400	115,690,500	157,826,300
25	Commercial Paper	0	0	0	0	0	0	0	0
26	Total Debt Service	38,404,300	45,060,000	61,626,000	75,913,500	89,179,100	99,635,700	326,354,300	409,818,600
27	Routine Annual Improvements	2,378,600	2,461,900	2,535,700	2,611,800	2,690,100	2,770,900	10,608,500	15,449,000
28	Cash Financing of Major Improvements	37,250,000	38,438,000	31,677,000	33,267,000	38,308,000	55,850,000	159,102,000	234,790,000
29	Additions to Operating Reserve	674,500	738,500	1,126,200	1,418,000	1,673,900	974,600	5,192,700	6,605,700
30	Net Annual Balance (d)	2,763,200	1,194,200	(739,100)	128,900	170,400	(210,900)	(650,700)	3,306,700
31	Beginning of Year Balance (e)	1,696,900	4,460,100	5,654,300	4,915,200	5,044,100	5,214,500	5,654,300	1,696,900
32	End of Year Balance (e)	4,460,100	5,654,300	4,915,200	5,044,100	5,214,500	5,003,600	5,003,600	5,003,600
	Actual Debt Service (f)								
33	Senior Bonds	19,270,300	20,823,000	29,264,900	42,184,500	53,747,900	63,233,300	188,430,600	228,523,900
34	SRF Loans	18,292,600	20,732,600	24,398,500	26,593,900	29,039,400	31,063,200	111,095,000	150,120,200
	Debt Service Coverage								
35	Revenue Bonds (g)	4.23 x	4.22 x	3.29 x	2.69 x	2.46 x	2.51 x	2.66 x	2.93 x
36	Total Debt (h)	2.17 x	2.12 x	1.79 x	1.65 x	1.59 x	1.69 x	1.67 x	1.77 x

(a) Revenue under existing wastewater rates effective July 1, 2010.

(b) O&M costs related to anticipated regulatory projects. These projects include improved disinfection at the Missouri River WWTP in 2013 and 2014; expansion of the Missouri River WWTP in 2015; and Capacity, Management, Operation, and Maintenance (CMOM) program activities related to anticipated Consent Decree requirements in 2016.

(c) Debt service on State Revolving Fund (SRF) Loans are net of the state's interest subsidy

(d) Negative balances indicate need to drawdown available fund balance

(e) Does not include funds set aside for a minimum operating reserve equal to 60 days of operating expenses.

(f) Payment to Bondholders per Table 3-10, paid through Sinking Fund

(g) The Bond Ordinance requires net revenue to equal or exceed 1.25x actual senior lien debt service.

(h) The Bond Ordinance requires net revenue to equal or exceed 1.15x total actual debt service.

**Table 3-21
Comparison of Existing and Proposed Wastewater Rates**

Line No.	Type of Monthly Charge	FY 2011	FY 2012	Proposed Wastewater Charges			
		Existing 2011	Approved 2012 (a)	2013	2014	2015	2016
Base Charge - \$/Bill							
1	Billing & Collection Charge	2.60	2.65	3.25	3.45	3.60	3.75
2	System Availability Charge	8.80	9.20	10.00	11.50	13.20	15.10
3	Total Base (Residential) Service Charge	11.40	11.85	13.25	14.95	16.80	18.85
Compliance Charge - \$/Bill (b)							
4	Tier 1	30.85	31.95	23.00	16.00	9.00	2.35
5	Tier 2	30.85	31.95	40.25	42.60	44.10	45.40
6	Tier 3	30.85	31.95	85.75	90.70	93.85	96.65
7	Tier 4	30.85	31.95	125.70	133.00	137.65	141.70
8	Tier 5	30.85	31.95	165.65	175.30	181.35	186.75
Volume Charge							
9	Metered - \$/Ccf	2.02	2.11	2.31	2.61	2.94	3.32
Unmetered - \$/Bill							
10	Each Room	1.32	1.38	1.50	1.70	1.91	2.16
11	Each Water Closet	4.93	5.15	5.64	6.37	7.17	8.10
12	Each Bath	4.11	4.30	4.70	5.31	5.98	6.75
13	Each Separate Shower	4.11	4.30	4.70	5.31	5.98	6.75
Extra Strength Surcharges - \$/ton (b)							
14	Suspended Solids over 300 mg/l	222.62	231.35	231.35	231.35	252.82	260.93
15	BOD over 300 mg/l	596.72	620.14	620.14	620.14	635.32	654.84
16	COD over 600 mg/l	298.36	310.07	310.07	310.07	317.66	327.42
Typical Residential Bill - \$/Bill (c)							
17	User Charge Portion	24.28	26.19	27.57	29.91	32.80	34.79
18	Capital Charge Portion	1.26	2.54	4.16	5.92	7.52	10.62
19	Total	27.56	28.73	31.73	35.83	40.32	45.41

Ccf - Hundred Cubic Feet
mg/l - milligram per liter

- (a) 2012 approved rates to be effective July 1, 2011.
- (b) Applicable only to non-residential customers.
- (c) Based on contributed wastewater volume of 8 Ccf per month.