

BOONE COUNTY REGIONAL SEWER DISTRICT
BOONE COUNTY, MO
 Actual and Projected Rate Structure 2017-2036
 Prepared by Stephen M. Connelly, CPA, P
 July 31, 2019

	RATE A. ACTUAL												RATE A. PROJECTION											
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036				
(change)	\$ 1.75	\$ 1.40	\$ 1.30	\$ 0.35	\$ 26.65	\$ 27.15	\$ 27.15	\$ 27.65	\$ 27.65	\$ 28.65	\$ 29.75	\$ 31.00	\$ 31.90	\$ 32.90	\$ 33.90	\$ 34.90	\$ 34.90	\$ 34.90	\$ 34.90	\$ 34.90				
Base service fee	\$ 23.60	\$ 24.70	\$ 25.50	\$ 26.65	\$ 26.65	\$ 27.15	\$ 27.15	\$ 27.65	\$ 27.65	\$ 28.65	\$ 29.75	\$ 31.00	\$ 31.90	\$ 32.90	\$ 33.90	\$ 34.90	\$ 34.90	\$ 34.90	\$ 34.90	\$ 34.90				
Usage charge	\$ 6.30	\$ 7.25	\$ 7.60	\$ 7.85	\$ 7.85	\$ 8.25	\$ 8.25	\$ 8.50	\$ 8.50	\$ 9.50	\$ 10.30	\$ 11.05	\$ 11.25	\$ 11.90	\$ 12.85	\$ 13.60	\$ 13.60	\$ 13.60	\$ 13.60	\$ 13.60				
(change)	\$ 0.40	\$ 0.35	\$ 0.36	\$ 0.26	\$ -	\$ -	\$ 0.26	\$ -	\$ -	\$ 1.00	\$ 0.80	\$ 0.75	\$ 0.20	\$ 0.65	\$ 0.95	\$ 0.75	\$ -	\$ -	\$ -	\$ -				
Total Charge (bsf + usage charge)	\$ 58.11	\$ 60.95	\$ 63.91	\$ 65.91	\$ 65.91	\$ 68.41	\$ 68.41	\$ 70.16	\$ 70.16	\$ 76.16	\$ 81.26	\$ 86.26	\$ 88.16	\$ 92.41	\$ 98.16	\$ 102.91	\$ 102.91	\$ 102.91	\$ 102.91	\$ 102.91				
Prior Year Total Charge (bsf + usage charge)	\$ 54.36	\$ 58.11	\$ 60.96	\$ 63.91	\$ 65.91	\$ 68.41	\$ 68.41	\$ 70.16	\$ 70.16	\$ 76.16	\$ 81.26	\$ 86.26	\$ 88.16	\$ 92.41	\$ 98.16	\$ 102.91	\$ 102.91	\$ 102.91	\$ 102.91	\$ 102.91				
Difference YoY	\$ 3.75	\$ 2.85	\$ 2.95	\$ 2.00	\$ -	\$ 2.50	\$ -	\$ 1.75	\$ -	\$ 6.00	\$ 5.10	\$ 5.00	\$ 1.90	\$ 4.25	\$ 5.75	\$ 4.75	\$ -	\$ -	\$ -	\$ -				
Percentage change	7%	4.9%	4.8%	3.1%	0.0%	3.8%	0.0%	2.6%	0.0%	8.6%	6.7%	6.2%	2.2%	4.8%	6.2%	4.8%	0.0%	0.0%	0.0%	0.0%				
Funds available for DS Debt Service	1,908,119	1,740,357	1,822,269	2,058,435	2,108,275	2,180,368	2,075,235	2,159,349	2,043,903	2,350,797	2,595,471	2,833,098	2,846,130	3,020,243	3,296,144	3,498,110	3,341,670	3,177,229	2,843,858	2,659,255				
DSCR	1.30	1.16	1.04	1.20	1.23	1.41	1.38	1.30	1.16	1.20	1.30	1.11	1.24	1.19	1.28	1.33	1.27	1.17	1.47	1.43				
Benchmark	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	2.10	3.10				
Incremental Debt Service	272,295	83,129	(91,193)	158,767	199,109	436,626	385,126	306,629	93,114	180,976	356,150	20,796	292,942	210,103	418,161	540,302	411,315	167,214	647,646	560,546				

**BOONE COUNTY REGIONAL SEWER DISTRICT
 BOONE COUNTY, MO
 STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
 ACTUAL AND PROJECTED YEARS ENDED DECEMBER 31, 2017-2036**
 Prepared by Stephen M. Connelly, CPA, PC
 July 31, 2019

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
ACTUAL																				
OPERATING REVENUES:																				
Customer fees (user fees, penalties, etc)	4,592,287	4,528,889	4,679,059	5,005,865	5,156,299	5,356,891	5,385,401	5,604,327	5,633,415	6,090,692	6,491,855	6,892,347	7,074,898	7,425,478	7,885,100	8,278,361	8,321,125	8,564,145	8,246,856	8,287,340
Grants																				
Miscellaneous	17,421	4,718	4,812	22,909	23,367	23,834	24,311	28,997	29,577	30,168	30,772	31,387	32,015	32,655	33,308	33,975	34,654	35,347	36,054	36,775
Total Operating Revenue	4,609,708	4,533,607	4,688,871	5,028,774	5,179,666	5,380,725	5,409,712	5,633,324	5,662,992	6,120,861	6,522,627	6,923,734	7,106,914	7,458,134	7,918,409	8,312,336	8,355,779	8,399,492	8,282,911	8,324,115
OPERATING EXPENSES:																				
Personnel expenses	1,070,689	1,105,462	1,112,622	1,142,220	1,164,960	1,212,616	1,262,296	1,314,093	1,368,100	1,424,416	1,483,146	1,544,397	1,608,285	1,674,929	1,744,454	1,816,991	1,892,678	1,971,659	2,054,086	2,140,118
Materials and supplies	6,404	4,948	4,586	4,735	4,887	5,045	5,208	5,377	5,550	5,729	5,914	6,106	6,303	6,506	6,716	6,933	7,157	7,389	7,627	7,874
Dues, training and seminars	5,746	12,988	11,042	11,399	11,767	12,147	12,539	12,944	13,362	13,794	14,240	14,700	15,174	15,664	16,170	16,693	17,232	17,788	18,363	18,956
Utilities	187,041	185,135	183,819	189,757	195,886	202,213	208,744	215,487	222,447	229,632	237,049	244,706	252,610	260,769	269,192	277,887	286,863	296,128	305,693	315,567
Equipment costs	62,527	60,658	55,530	57,323	59,175	61,086	63,059	65,096	67,199	69,369	71,610	73,923	76,311	78,776	81,320	83,947	86,658	89,457	92,347	95,330
Maintenance	250,536	202,115	229,421	241,810	254,867	268,630	283,136	298,426	314,541	331,536	349,428	368,297	388,186	409,148	431,241	454,529	479,073	504,943	532,210	560,949
Wholesale treatment	953,509	997,473	1,037,372	1,078,867	1,122,022	1,166,903	1,213,579	1,262,122	1,312,607	1,365,111	1,419,716	1,476,504	1,535,564	1,596,987	1,660,866	1,727,301	1,796,393	1,868,249	1,942,979	2,020,698
Contract services	241,388	301,972	296,215	305,779	315,652	325,884	336,366	347,228	358,440	370,014	381,963	394,297	407,029	420,173	433,741	447,748	462,308	477,135	492,544	508,451
Miscellaneous	22,239	17,593	19,378	23,822	24,591	25,386	26,206	27,052	27,926	28,828	29,759	30,720	31,713	32,737	33,794	34,886	36,013	37,176	38,377	39,616
Bad debts	20,264	21,535	22,230	22,948	23,689	24,455	25,244	26,060	26,902	27,770	28,667	29,593	30,549	31,536	32,555	33,606	34,692	35,812	36,969	38,163
Depreciation	1,182,286	1,240,326	1,250,378	1,291,388	1,323,360	1,349,484	1,396,979	1,495,463	1,610,290	1,704,703	1,759,724	1,913,638	2,057,171	2,160,119	2,244,467	2,309,125	2,361,270	2,425,720	2,488,995	2,484,701
Total Operating Expenses	4,002,629	4,150,205	4,222,594	4,370,047	4,500,857	4,653,809	4,833,359	5,069,348	5,327,363	5,570,894	5,781,216	6,096,882	6,408,895	6,687,344	6,954,518	7,209,645	7,460,236	7,731,457	7,980,190	8,230,423
INCOME FROM OPERATIONS	607,079	383,402	461,277	658,727	678,809	726,916	576,353	563,977	335,828	549,967	741,411	826,853	698,018	770,790	963,890	1,102,691	895,543	668,035	302,721	93,692
NON-OPERATING REVENUES/(EXPENSES):																				
Interest income	118,754	116,630	110,613	108,321	106,106	103,968	101,903	99,909	97,984	96,127	94,336	92,607	90,941	89,334	87,786	86,294	84,858	83,474	82,143	80,862
Interest expense	(360,652)	(333,494)	(316,291)	(306,237)	(279,032)	(252,817)	(246,992)	(274,865)	(296,180)	(290,012)	(259,868)	(309,248)	(354,149)	(345,273)	(336,133)	(322,198)	(304,167)	(295,376)	(290,680)	(290,458)
Bond issuance costs	(184,257)	(101,443)	(103,787)	(179,348)	(170,103)	(161,756)	(164,601)	(187,983)	(235,249)	(263,997)	(207,846)	(203,304)	(165,956)	(199,552)	(160,815)	(177,142)	(177,141)	(177,140)	(177,139)	(177,138)
Gain/(loss) on disposal of assets	(171,320)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contributed collection systems	1,623,043	520,275	525,478	530,733	536,040	541,400	546,814	552,282	557,805	563,383	569,017	574,707	580,454	586,257	592,121	598,043	604,023	610,063	616,164	622,326
Misc./Contr collection system closure																				
Total Non-Operating Rev/(Exp)	1,025,568	201,968	216,012	153,468	193,011	230,795	237,124	189,343	124,361	105,502	195,638	154,763	151,290	130,769	182,959	184,997	207,573	221,022	230,488	235,591
NET INCOME/(LOSS)	1,632,647	585,369	677,289	812,194	871,820	957,711	813,477	753,320	459,989	655,469	937,049	981,616	849,309	901,558	1,146,850	1,287,688	1,103,116	889,057	533,209	329,283
INCREASE/(DECREASE) IN NET POSIT	1,632,647	585,369	677,289	812,194	871,820	957,711	813,477	753,320	459,989	655,469	937,049	981,616	849,309	901,558	1,146,850	1,287,688	1,103,116	889,057	533,209	329,283
NET POSITION AT BEGINNING	13,609,706	15,242,353	15,827,723	16,505,012	17,317,206	18,189,026	19,146,738	19,960,215	20,713,535	21,173,524	21,828,992	22,766,041	23,747,657	24,596,966	25,498,524	26,645,374	27,933,062	29,036,178	29,925,235	30,458,443
NET POSITION AT ENDING	15,242,353	15,827,723	16,505,012	17,317,206	18,189,026	19,146,738	19,960,215	20,713,535	21,173,524	21,828,992	22,766,041	23,747,657	24,596,966	25,498,524	26,645,374	27,933,062	29,036,178	29,925,235	30,458,443	30,787,726
Funds available for DS	1,908,119	1,740,357	1,822,269	2,058,435	2,108,275	2,180,368	2,075,235	2,159,349	2,043,903	2,350,797	2,595,471	2,833,098	2,846,130	3,020,243	3,296,144	3,498,110	3,341,670	3,177,229	2,843,858	2,659,855
Debt Service	1,462,359	1,499,014	1,747,791	1,712,537	1,717,505	1,545,527	1,501,451	1,656,415	1,764,980	1,956,112	2,003,368	2,554,748	2,594,449	2,535,573	2,578,333	2,639,798	2,626,567	2,721,176	1,937,680	1,856,688
DSCR	1.30	1.16	1.04	1.20	1.23	1.41	1.38	1.30	1.16	1.20	1.30	1.11	1.24	1.19	1.28	1.33	1.27	1.17	1.47	1.40
Benchmark	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Incremental Service	272,295	83,129	(91,183)	158,767	199,109	436,626	385,126	306,629	93,114	180,976	356,150	20,796	292,942	210,103	418,161	540,302	411,315	167,214	647,646	560,586

**BOONE COUNTY REGIONAL SEWER DISTRICT
BOONE COUNTY, MO
Actual and Projected Number of Customers 2017-2036
Prepared by Stephen M. Connelly, CPA, PC
July 31, 2019**

Number of BILLED Customers by Rate Class for 2017-2036

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	
Rate Class																					
A	5,919	5,995	6,019	6,049	6,256	6,288	6,320	6,440	6,472	6,504	6,537	6,569	6,602	6,635	6,668	6,702	6,735	6,769	6,803	6,837	
B	206	202	205	206	207	208	209	210	211	212	213	214	215	217	218	219	220	221	222	223	
C	63	76	76	77	77	78	78	78	79	79	79	80	80	81	81	81	82	82	83	83	
D	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	
E	48	49	57	57	58	58	58	58	59	59	59	60	60	60	61	61	61	61	62	62	
F & Others	282	297	299	300	300	301	302	303	304	304	305	306	307	308	309	309	310	311	312	313	
TOTAL	6,544	6,635	6,673	6,705	6,915	6,949	6,984	7,106	7,141	7,176	7,211	7,247	7,282	7,318	7,354	7,390	7,426	7,462	7,499	7,536	

NOTE:- These numbers include BILLED customers who may have multiple units.

CIP FUNDING LIST with ANNUAL INFLATION ADJUSTMENT (Financed)

Description	Budget	Inflation Adjusted Budget		
2019 DEBT FUNDING				
Lee Heights	609,500			
Oberlin Valley	609,500			
TOTAL	1,219,000	1,219,000	100%	
2020 DEBT FUNDING				
TOTAL	-	-	103%	1
2021 DEBT FUNDING				
TOTAL	-	-	106%	2
2022 DEBT FUNDING				
Contingency	500,000			
Collection System Rehab	1,046,325			
TOTAL	1,546,325	1,689,711	109%	3
2023 DEBT FUNDING				
Collection System Rehab	1,046,325			
Midway Arms	724,150			
Midway Crossings Capacity	2,225,518			
TOTAL	3,995,993	4,497,525	113%	4
2024 DEBT FUNDING				
Collection System Rehab	1,046,325			
Highfield Acres	259,265			
Brown Station/Richardson Acres	1,518,000			
Rollingwood	498,100			
TOTAL	3,321,690	3,850,749	116%	5
2025 DEBT FUNDING				
Contingency	500,000			
Collection System Rehab	1,046,325			
TOTAL	1,546,325	1,846,393	119%	6
2026 DEBT FUNDING				
TOTAL	-	-	123%	7
2027 DEBT FUNDING				
South Route K	6,454,000			
TOTAL	6,454,000	8,175,734	127%	8
2028 DEBT FUNDING				
Prairie Meadows	3,057,000			
TOTAL	3,057,000	3,988,692	130%	9
2029 DEBT FUNDING				
Trails West	1,122,243			
TOTAL	1,122,243	1,508,201	134%	10
2030 DEBT FUNDING				
Twin Lakes	1,169,000			
TOTAL	1,169,000	1,618,169	138%	11
2031 DEBT FUNDING				
Meadow Village	620,000			
TOTAL	620,000	883,972	143%	12
2032 DEBT FUNDING				
Cedar Gate	469,287			
TOTAL	469,287	689,164	147%	13
2033 DEBT FUNDING				
Kimkade Crossing	1,307,050			
TOTAL	1,307,050	1,977,030	151%	14
2034 DEBT FUNDING				
Eagle Knoll	381,400			
TOTAL	381,400	594,209	156%	15
2035 DEBT FUNDING				
Quarter Mile	343,000			
TOTAL	343,000	550,414	160%	15
2036 DEBT FUNDING				
Rocheport	102,344			
TOTAL	102,344	169,159	165%	15

COMBINED TOTAL FOR ALL PROJECTS \$26,209,313 \$32,538,549

BOONE COUNTY REGIONAL SEWER DISTRICT
BOONE COUNTY, MO
Actual and Projected Debt Levels 2017-2036
Prepared by Stephen M. Connelly, CPA, PC

2017

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 1998B	105,000		35,000	70,000	3,325	38,325
Series 2000A	255,000		60,000	195,000	12,683	72,683
Series 2002B	130,000		20,000	110,000	6,250	26,250
Series 2004B	505,000		60,000	445,000	22,325	82,325
Series 2006B	375,000		35,000	340,000	16,525	51,525
Series 2007B	1,890,000		120,000	1,770,000	81,944	201,944
SRF Direct Loan - 09, 11	1,030,300		60,900	969,400	15,081	75,981
Direct Loan 2012	1,027,300		53,000	974,300	14,221	67,221
City of Rocheport	11,100		600	10,500	183	783
Direct Loan 2013	11,448,000		515,000	10,933,000	163,725	678,725
Direct Loan 2015	2,937,000		130,000	2,807,000	36,597	166,597
Calculated	19,713,700	0	1,089,500	18,624,200	372,859	1,462,359

2018

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 1998B	70,000		70,000	0	1,750	71,750
Series 2000A	195,000		65,000	130,000	9,197	74,197
Series 2002B	110,000		20,000	90,000	5,150	25,150
Series 2004B	445,000		60,000	385,000	19,175	79,175
Series 2006B	340,000		35,000	305,000	14,950	49,950
Series 2007B	1,770,000		125,000	1,645,000	76,631	201,631
SRF Direct Loan - 09, 11	969,400		62,000	907,400	14,137	76,137
Direct Loan 2012	974,300		54,800	919,500	13,438	68,238
City of Rocheport	10,500		700	9,800	172	872
Direct Loan 2013	10,933,000		528,000	10,405,000	155,962	683,962
Direct Loan 2015	2,807,000		133,000	2,674,000	34,952	167,952
Calculated	18,624,200	0	1,153,500	17,470,700	345,514	1,499,014

2019

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 1998B	0		0	0	0	0
Series 2000A	130,000		65,000	65,000	5,541	70,541
Series 2002B	90,000		20,000	70,000	4,050	24,050
Series 2004B	385,000		60,000	325,000	16,025	76,025
Series 2006B	305,000		35,000	270,000	13,550	48,550
Series 2007B	1,645,000		135,000	1,510,000	69,881	204,881
SRF Direct Loan - 09, 11	907,400		63,100	844,300	13,177	76,277
Direct Loan 2012	919,500		55,700	863,800	12,643	68,343
City of Rocheport	9,800		700	9,100	160	860
Direct Loan 2013	10,405,000		541,000	9,864,000	148,000	689,000
Direct Loan 2015	2,674,000		136,000	2,538,000	33,264	169,264
Direct Loan 2019		1,219,000		1,219,000	0	0
Calculated	17,470,700	1,219,000	1,111,500	17,578,200	316,291	1,427,791

2020

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2000A	65,000		65,000	0	1,853	66,853
Series 2002B	70,000		20,000	50,000	3,000	23,000
Series 2004B	325,000		60,000	265,000	13,250	73,250
Series 2006B	270,000		35,000	235,000	12,150	47,150
Series 2007B	1,510,000		140,000	1,370,000	64,281	204,281
SRF Direct Loan - 09, 11	844,300		66,000	778,300	12,179	78,179
Direct Loan 2012	863,800		55,600	808,200	11,827	67,427
City of Rocheport	9,100		700	8,400	148	848
Direct Loan 2013	9,864,000		554,000	9,310,000	139,853	693,853
Direct Loan 2015	2,538,000		139,000	2,399,000	31,544	170,544
Direct Loan 2019	1,219,000		0	1,219,000	16,152	16,152
Calculated	17,578,200	0	1,135,300	16,442,900	306,237	1,441,537

2021

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2002B	50,000		25,000	25,000	1,875	26,875
Series 2004B	265,000		65,000	200,000	10,000	75,000
Series 2006B	235,000		35,000	200,000	10,575	45,575
Series 2007B	1,370,000		145,000	1,225,000	58,300	203,300
SRF Direct Loan - 09, 11	778,300		67,100	711,200	11,157	78,257
Direct Loan 2012	808,200		58,400	749,800	10,993	69,393
City of Rochepport	8,400		700	7,700	136	836
Direct Loan 2013	9,310,000		567,000	8,743,000	131,505	698,505
Direct Loan 2015	2,399,000		142,000	2,257,000	29,780	171,780
Direct Loan 2019	1,219,000		53,100	1,165,900	14,711	67,811
Calculated	16,442,900	0	1,158,300	15,284,600	279,032	1,437,332

2022

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2002B	25,000		25,000	0	625	25,625
Series 2004B	200,000		65,000	135,000	6,750	71,750
Series 2006B	200,000		40,000	160,000	8,700	48,700
Series 2007B	1,225,000		150,000	1,075,000	51,363	201,363
SRF Direct Loan - 09, 11	711,200		68,300	642,900	10,118	78,418
Direct Loan 2012	749,800		60,200	689,600	10,133	70,333
City of Rochepport	7,700		700	7,000	124	824
Direct Loan 2013	8,743,000		581,000	8,162,000	122,959	703,959
Direct Loan 2015	2,257,000		145,000	2,112,000	27,985	172,985
Direct Loan 2019	1,165,900		54,000	1,111,900	14,060	68,060
Direct Loan 2022		1,689,711		1,689,711	0	0
Calculated	15,284,600	1,689,711	1,189,200	15,785,111	252,817	1,442,017

2023

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2004B	135,000		65,000	70,000	3,500	68,500
Series 2006B	160,000		40,000	120,000	6,700	46,700
Series 2007B	1,075,000		160,000	915,000	43,962	203,962
SRF Direct Loan - 09, 11	642,900		70,500	572,400	9,051	79,551
Direct Loan 2012	689,600		61,800	627,800	9,248	71,048
City of Rocheport	7,000		700	6,300	112	812
Direct Loan 2013	8,162,000		595,000	7,567,000	114,204	709,204
Direct Loan 2015	2,112,000		149,000	1,963,000	26,145	175,145
Direct Loan 2019	1,111,900		55,000	1,056,900	13,398	68,398
Direct Loan 2022	1,689,711			1,689,711	20,672	20,672
Direct Loan 2023		4,497,525		4,497,525	0	0
Calculated	15,785,111	4,497,525	1,197,000	19,085,636	246,992	1,443,992

2024

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2004B	70,000		70,000	0	0	70,000
Series 2006B	120,000		40,000	80,000	4,700	44,700
Series 2007B	915,000		165,000	750,000	36,125	201,125
SRF Direct Loan - 09, 11	572,400		72,600	499,800	7,945	80,545
Direct Loan 2012	627,800		62,700	565,100	8,352	71,052
City of Rocheport	6,300		700	5,600	101	801
Direct Loan 2013	7,567,000		609,000	6,958,000	105,243	714,243
Direct Loan 2015	1,963,000		151,000	1,812,000	24,261	175,261
Direct Loan 2019	1,056,900		55,900	1,001,000	12,725	68,625
Direct Loan 2022	1,689,711		73,600	1,616,111	20,391	93,991
Direct Loan 2023	4,497,525			4,497,525	55,022	55,022
Direct Loan 2024		3,850,749		3,850,749	0	0
Calculated	19,085,636	3,850,749	1,300,500	21,635,885	274,865	1,575,365

2025

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2006B	80,000		40,000	40,000	2,700	42,700
Series 2007B	750,000		175,000	575,000	27,813	202,813
SRF Direct Loan - 09, 11	499,800		73,700	426,100	6,823	80,523
Direct Loan 2012	565,100		64,500	500,600	7,430	71,930
City of Rocheport	5,600		800	4,800	88	888
Direct Loan 2013	6,958,000		624,000	6,334,000	96,067	720,067
Direct Loan 2015	1,812,000		155,000	1,657,000	22,346	177,346
Direct Loan 2019	1,001,000		56,900	944,100	12,040	68,940
Direct Loan 2022	1,616,111		74,900	1,541,211	19,489	94,389
Direct Loan 2023	4,497,525		196,000	4,301,525	54,274	250,274
Direct Loan 2024	3,850,749			3,850,749	47,110	47,110
Direct Loan 2025		1,846,393		1,846,393	0	0
Calculated	21,635,885	1,846,393	1,460,800	22,021,478	296,180	1,756,980

2026

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2006B	40,000		40,000	0	850	40,850
Series 2007B	575,000		185,000	390,000	19,025	204,025
SRF Direct Loan - 09, 11	426,100		75,900	350,200	5,674	81,574
Direct Loan 2012	500,600		66,300	434,300	6,481	72,781
City of Rocheport	4,800		800	4,000	79	879
Direct Loan 2013	6,334,000		638,000	5,696,000	86,676	724,676
Direct Loan 2015	1,657,000		159,000	1,498,000	20,381	179,381
Direct Loan 2019	944,100		57,900	886,200	11,342	69,242
Direct Loan 2022	1,541,211		76,200	1,465,011	18,572	94,772
Direct Loan 2023	4,301,525		199,300	4,102,225	51,873	251,173
Direct Loan 2024	3,850,749		167,700	3,683,049	46,470	214,170
Direct Loan 2025	1,846,393		0	1,846,393	22,589	22,589
Calculated	22,021,478	0	1,666,100	20,355,378	290,012	1,956,112

2027

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2007B	390,000		190,000	200,000	10,000	200,000
SRF Direct Loan - 09, 11	350,200		78,300	271,900	4,481	82,781
Direct Loan 2012	434,300		68,100	366,200	5,507	73,607
City of Rocheport	4,000		800	3,200	61	861
Direct Loan 2013	5,696,000		654,000	5,042,000	77,056	731,056
Direct Loan 2015	1,498,000		162,000	1,336,000	18,365	180,365
Direct Loan 2019	886,200		58,900	827,300	10,633	69,533
Direct Loan 2022	1,465,011		77,500	1,387,511	17,638	95,138
Direct Loan 2023	4,102,225		202,800	3,899,425	49,431	252,231
Direct Loan 2024	3,683,049		170,700	3,512,349	44,415	215,115
Direct Loan 2025	1,846,393		80,400	1,765,993	22,282	102,682
Direct Loan 2027		8,175,734		8,175,734	0	0
Calculated	20,355,378	8,175,734	1,743,500	26,787,612	259,868	2,003,368

2028

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Series 2007B	200,000		200,000	0	0	200,000
SRF Direct Loan - 09, 11	271,900		79,400	192,500	3,272	82,672
Direct Loan 2012	366,200		69,900	296,300	4,507	74,407
City of Rocheport	3,200		800	2,400	47	847
Direct Loan 2013	5,042,000		670,000	4,372,000	67,200	737,200
Direct Loan 2015	1,336,000		165,000	1,171,000	16,317	181,317
Direct Loan 2019	827,300		59,900	767,400	9,911	69,811
Direct Loan 2022	1,387,511		78,800	1,308,711	16,689	95,489
Direct Loan 2023	3,899,425		206,300	3,693,125	46,947	253,247
Direct Loan 2024	3,512,349		173,600	3,338,749	23,041	196,641
Direct Loan 2025	1,765,993		81,800	1,684,193	21,297	103,097
Direct Loan 2027	8,175,734			8,175,734	100,021	100,021
Direct Loan 2028		3,988,692		3,988,692	0	0
Calculated	26,787,612	3,988,692	1,785,500	28,990,804	309,248	2,094,748

2029

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
SRF Direct Loan - 09, 11	192,500		81,800	110,700	2,034	83,834
Direct Loan 2012	296,300		71,700	224,600	3,481	75,181
City of Rocheport	2,400		800	1,600	34	834
Direct Loan 2013	4,372,000		686,000	3,686,000	57,105	743,105
Direct Loan 2015	1,171,000		169,000	1,002,000	14,225	183,225
Direct Loan 2019	767,400		60,900	706,500	9,177	70,077
Direct Loan 2022	1,308,711		44,200	1,264,511	15,723	59,923
Direct Loan 2023	3,693,125		209,900	3,483,225	44,419	254,319
Direct Loan 2024	3,338,749		176,600	3,162,149	40,197	216,797
Direct Loan 2025	1,684,193		83,200	1,600,993	20,295	103,495
Direct Loan 2027	8,175,734		356,200	7,819,534	98,662	454,862
Direct Loan 2028	3,988,692			3,988,692	48,797	48,797
Direct Loan 2029		1,508,201		1,508,201	0	0
Calculated	28,990,804	1,508,201	1,940,300	28,558,705	354,149	2,294,449

2030

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
SRF Direct Loan - 09, 11	110,700		83,700	27,000	754	84,454
Direct Loan 2012	224,600		73,400	150,200	2,430	75,830
City of Rocheport	1,600		800	800	20	820
Direct Loan 2013	3,686,000		702,000	2,984,000	46,776	748,776
Direct Loan 2015	1,002,000		173,000	829,000	12,083	185,083
Direct Loan 2019	706,500		61,900	644,600	8,431	70,331
Direct Loan 2022	1,264,511		81,600	1,182,911	14,740	96,340
Direct Loan 2023	3,483,225		213,500	3,269,725	41,847	255,347
Direct Loan 2024	3,162,149		179,600	2,982,549	38,033	217,633
Direct Loan 2025	1,600,993		84,700	1,516,293	19,275	103,975
Direct Loan 2027	7,819,534		362,300	7,457,234	94,298	456,598
Direct Loan 2028	3,988,692		173,800	3,814,892	48,134	221,934
Direct Loan 2029	1,508,201			1,508,201	18,451	18,451
Direct Loan 2030		1,618,169		1,618,169	0	0
Calculated	28,558,705	1,618,169	2,190,300	27,985,574	345,273	2,535,573

2031

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
SRF Direct Loan - 09, 11	27,000		27,000	0	105	27,105
Direct Loan 2012	150,200		75,100	75,100	1,355	76,455
City of Rocheport	800		800	0	7	807
Direct Loan 2013	2,984,000		719,000	2,265,000	36,201	755,201
Direct Loan 2015	829,000		177,000	652,000	9,891	186,891
Direct Loan 2019	644,600		63,100	581,500	7,673	70,773
Direct Loan 2022	1,182,911		83,000	1,099,911	13,740	96,740
Direct Loan 2023	3,269,725		217,100	3,052,625	39,231	256,331
Direct Loan 2024	2,982,549		182,800	2,799,749	35,832	218,632
Direct Loan 2025	1,516,293		86,200	1,430,093	18,237	104,437
Direct Loan 2027	7,457,234		368,600	7,088,634	89,859	458,459
Direct Loan 2028	3,814,892		176,800	3,638,092	46,005	222,805
Direct Loan 2029	1,508,201		65,700	1,442,501	18,201	83,901
Direct Loan 2030	1,618,169			1,618,169	19,797	19,797
Direct Loan 2031		883,972		883,972	0	0
Calculated	27,985,574	883,972	2,242,200	26,627,346	336,133	2,578,333

2032

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Direct Loan 2012	75,100		75,100	0	267	75,367
Direct Loan 2013	2,265,000		726,300	1,538,700	30,397	756,697
Direct Loan 2015	652,000		181,000	471,000	7,648	188,648
Direct Loan 2019	581,500		64,100	517,400	6,900	71,000
Direct Loan 2022	1,099,911		84,400	1,015,511	12,724	97,124
Direct Loan 2023	3,052,625		220,900	2,831,725	36,571	257,471
Direct Loan 2024	2,799,749		186,000	2,613,749	33,592	219,592
Direct Loan 2025	1,430,093		87,600	1,342,493	17,181	104,781
Direct Loan 2027	7,088,634		375,000	6,713,634	85,342	460,342
Direct Loan 2028	3,638,092		179,800	3,458,292	43,839	223,639
Direct Loan 2029	1,442,501		66,900	1,375,601	17,395	84,295
Direct Loan 2030	1,618,169		70,500	1,547,669	19,528	90,028
Direct Loan 2031	883,972			883,972	10,814	10,814
Direct Loan 2032		689,164		689,164	0	0
Calculated	26,627,346	689,164	2,317,600	24,998,910	322,198	2,639,798

2033

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Direct Loan 2013	1,538,700		744,500	794,200	19,580	764,080
Direct Loan 2015	471,000		181,000	290,000	25,368	206,368
Direct Loan 2019	517,400		65,300	452,100	6,114	71,414
Direct Loan 2022	1,015,511		85,900	929,611	11,689	97,589
Direct Loan 2023	2,831,725		224,700	2,607,025	17,274	241,974
Direct Loan 2024	2,613,749		189,200	2,424,549	31,313	220,513
Direct Loan 2025	1,342,493		89,200	1,253,293	16,108	105,308
Direct Loan 2027	6,713,634		381,400	6,332,234	80,748	462,148
Direct Loan 2028	3,458,292		183,000	3,275,292	41,635	224,635
Direct Loan 2029	1,375,601		68,000	1,307,601	16,576	84,576
Direct Loan 2030	1,547,669		71,700	1,475,969	18,664	90,364
Direct Loan 2031	883,972		38,500	845,472	10,667	49,167
Direct Loan 2032	689,164			689,164	8,431	8,431
Direct Loan 2033		1,977,030		1,977,030	0	0
Calculated	24,998,910	1,977,030	2,322,400	24,653,540	304,167	2,626,567

2034

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Direct Loan 2013	794,200		794,200	0	8,494	802,694
Direct Loan 2015	290,000		181,000	109,000	4,114	185,114
Direct Loan 2019	452,100		66,300	385,800	5,314	71,614
Direct Loan 2022	929,611		87,400	842,211	10,637	98,037
Direct Loan 2023	2,607,025		228,600	2,378,425	31,112	259,712
Direct Loan 2024	2,424,549		192,400	2,232,149	28,995	221,395
Direct Loan 2025	1,253,293		90,600	1,162,693	15,015	105,615
Direct Loan 2027	6,332,234		388,000	5,944,234	76,075	464,075
Direct Loan 2028	3,275,292		186,100	3,089,192	39,393	225,493
Direct Loan 2029	1,307,601		69,100	1,238,501	15,743	84,843
Direct Loan 2030	1,475,969		72,900	1,403,069	17,785	90,685
Direct Loan 2031	845,472		39,200	806,272	10,196	49,396
Direct Loan 2032	689,164		30,000	659,164	8,317	38,317
Direct Loan 2033	1,977,030			1,977,030	24,187	24,187
Direct Loan 2034		594,209		594,209	0	0
Calculated	24,653,540	594,209	2,425,800	22,821,949	295,376	2,721,176

2035

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Direct Loan 2015	109,000		109,000	0	1,784	110,784
Direct Loan 2019	385,800		67,500	318,300	4,502	72,002
Direct Loan 2022	842,211		87,400	754,811	10,637	98,037
Direct Loan 2023	2,378,425		228,600	2,149,825	31,112	259,712
Direct Loan 2024	2,232,149		192,400	2,039,749	28,995	221,395
Direct Loan 2025	1,162,693		90,600	1,072,093	15,015	105,615
Direct Loan 2027	5,944,234		388,000	5,556,234	76,075	464,075
Direct Loan 2028	3,089,192		186,100	2,903,092	39,393	225,493
Direct Loan 2029	1,238,501		69,100	1,169,401	15,743	84,843
Direct Loan 2030	1,403,069		72,900	1,330,169	17,785	90,685
Direct Loan 2031	806,272		39,200	767,072	10,196	49,396
Direct Loan 2032	659,164		30,000	629,164	8,317	38,317
Direct Loan 2033	1,977,030		86,200	1,890,830	23,858	110,058
Direct Loan 2034	594,209			594,209	7,269	7,269
Direct Loan 2035		550,414		550,414	0	0
Calculated	22,821,949	550,414	1,647,000	21,725,363	290,680	1,937,680

2036

	Beg Bal	Advances	Payments	Ending Bal	Gross Interest	Gross DS
Direct Loan 2019	318,300		68,700	249,600	3,675	72,375
Direct Loan 2022	754,811		87,400	667,411	10,637	98,037
Direct Loan 2023	2,149,825		228,600	1,921,225	31,112	259,712
Direct Loan 2024	2,039,749		192,400	1,847,349	28,995	221,395
Direct Loan 2025	1,072,093		90,600	981,493	15,015	105,615
Direct Loan 2027	5,556,234		388,000	5,168,234	76,075	464,075
Direct Loan 2028	2,903,092		186,100	2,716,992	39,393	225,493
Direct Loan 2029	1,169,401		69,100	1,100,301	15,743	84,843
Direct Loan 2030	1,330,169		72,900	1,257,269	17,785	90,685
Direct Loan 2031	767,072		39,200	727,872	10,196	49,396
Direct Loan 2032	629,164		30,000	599,164	8,317	38,317
Direct Loan 2033	1,890,830		87,600	1,803,230	22,802	110,402
Direct Loan 2034	594,209		25,900	568,309	3,981	29,881
Direct Loan 2035	550,414			550,414	6,734	6,734
Direct Loan 2036		169,159		169,159	0	0
Calculated	21,725,363	169,159	1,566,500	20,328,022	290,458	1,856,958

BOONE COUNTY REGIONAL SEWER DISTRICT
BOONE COUNTY, MO
Actual and Projected Capital Assets 2017-2036
Prepared by Stephen M. Connelly, CPA, PC

31-Dec-17

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal	
Land	42,888					42,888					
Building	173,907					173,907					
Vehicles & equipment	1,118,655	55,973		(62,896)		1,112,732					
Treatment & Collection Systems	32,172,031	78,561	1,623,043	(171,320)	6,819,775	40,522,090					
Work-In-Progress - CIP	6,977,424	721,115			(6,819,775)	878,764					
Accumulated Deprec							9,613,610	1,182,286	(62,896)	10,733,000	
	40,485,905	855,649	1,623,043	(234,216)	-	42,730,381	9,613,610	1,182,286	(62,896)	10,733,000	31,997,381

31-Dec-18

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal	
Land	42,888	51,247				94,135					
Building	173,907					173,907					
Vehicles & equipment	1,112,732	28,679		(2,922)		1,138,489					
Treatment & Collection Systems	40,522,090	42,639	520,275		127,453	41,212,457					
Work-In-Progress - CIP	878,764	191,813			(127,453)	943,124					
Accumulated Deprec							10,733,000	1,240,326	(2,922)	11,970,404	
	42,730,381	314,378	520,275	(2,922)	-	43,562,112	10,733,000	1,240,326	(2,922)	11,970,404	31,591,708

31-Dec-19

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal	
Land	94,135					94,135					
Building	173,907					173,907					
Vehicles & equipment	1,138,489	54,636				1,193,125					
Treatment & Collection Systems	41,212,457		525,478	-	471,562	42,209,497					
Work-In-Progress - CIP	943,124	1,219,000			(471,562)	1,690,562					
Accumulated Deprec							11,970,404	1,250,378		13,220,783	
	43,562,112	1,273,636	525,478	-	-	45,361,226	11,970,404	1,250,378	0	13,220,783	32,140,444

31-Dec-20

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal	
Land	94,135					94,135					
Building	173,907					173,907					
Vehicles & equipment	1,193,125	56,275				1,249,401					
Treatment & Collection Systems	42,209,497		530,733	-	845,281	43,585,510					
Work-In-Progress - CIP	1,690,562	-			(845,281)	845,281					
Accumulated Deprec							13,220,783	1,291,388		14,512,170	
	45,361,226	56,275	530,733	-	-	45,948,234	13,220,783	1,291,388	0	14,512,170	31,436,064

31-Dec-21

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal	
Land	94,135					94,135					
Building	173,907					173,907					
Vehicles & equipment	1,249,401	57,964				1,307,364					
Treatment & Collection Systems	43,585,510	100,000	536,040	-	422,641	44,644,191					
Work-In-Progress - CIP	845,281	-			(422,641)	422,641					
Accumulated Deprec							14,512,170	1,323,360		15,835,530	
	45,948,234	157,964	536,040	-	-	46,642,238	14,512,170	1,323,360	0	15,835,530	30,806,708

31-Dec-22

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal	
Land	94,135					94,135					
Building	173,907					173,907					
Vehicles & equipment	1,307,364	59,703				1,367,067					
Treatment & Collection Systems	44,644,191	100,000	541,400	-	211,320	45,496,911					
Work-In-Progress - CIP	422,641	1,689,711			(211,320)	1,901,031					
Accumulated Deprec							15,835,530	1,349,484		17,185,014	
	46,642,238	1,849,414	541,400	-	-	49,033,052	15,835,530	1,349,484	0	17,185,014	31,848,038

31-Dec-23

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,367,067	61,494				1,428,561				

Treatment & Collection Systems	45,496,911	100,000	546,814	-	950,516	47,094,241				
Work-In-Progress - CIP	1,901,031	4,497,525			(950,516)	5,448,041				
Accumulated Deprec							17,185,014	1,396,979		18,581,993
	49,033,052	4,659,019	546,814	-	-	54,238,885	17,185,014	1,396,979	0	18,581,993

31-Dec-24

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,426,561	63,339				1,491,899				
Treatment & Collection Systems	47,094,241	100,000	552,282	-	2,724,020	50,470,544				
Work-In-Progress - CIP	5,448,041	3,850,749			(2,724,020)	6,574,770				
Accumulated Deprec							18,581,993	1,495,463		20,077,456
	54,238,885	4,014,088	552,282	-	-	58,805,255	18,581,993	1,495,463	0	20,077,456

31-Dec-25

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,491,899	65,239				1,557,138				
Treatment & Collection Systems	50,470,544	100,000	557,805	-	3,287,385	54,415,734				
Work-In-Progress - CIP	6,574,770	1,846,393			(3,287,385)	5,133,778				
Accumulated Deprec							20,077,456	1,610,290		21,687,746
	58,805,255	2,011,632	557,805	-	-	61,374,692	20,077,456	1,610,290	0	21,687,746

31-Dec-26

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,557,138	67,196				1,624,334				
Treatment & Collection Systems	54,415,734	100,000	563,383	-	2,566,889	57,646,006				
Work-In-Progress - CIP	5,133,778	-			(2,566,889)	2,566,889				
Accumulated Deprec							21,687,746	1,704,703		23,392,449
	61,374,692	167,196	563,383	-	-	62,105,271	21,687,746	1,704,703	0	23,392,449

31-Dec-27

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,624,334	69,212				1,693,545				
Treatment & Collection Systems	57,646,006		569,017	-	1,283,444	59,498,468				
Work-In-Progress - CIP	2,566,889	8,175,734			(1,283,444)	9,459,179				
Accumulated Deprec							23,392,449	1,759,724		25,152,174
	62,105,271	8,244,946	569,017	-	-	70,919,234	23,392,449	1,759,724	0	25,152,174

31-Dec-28

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,693,545	71,288				1,764,833				
Treatment & Collection Systems	59,498,468		574,707	-	4,729,589	64,802,764				
Work-In-Progress - CIP	9,459,179	3,988,692			(4,729,589)	8,718,281				
Accumulated Deprec							25,152,174	1,913,638		27,065,812
	70,919,234	4,059,980	574,707	-	-	75,553,921	25,152,174	1,913,638	0	27,065,812

31-Dec-29

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,764,833	73,427				1,838,260				
Treatment & Collection Systems	64,802,764		580,454	-	4,359,140	69,742,359				
Work-In-Progress - CIP	8,718,281	1,508,201			(4,359,140)	5,867,341				
Accumulated Deprec							27,065,812	2,057,171		29,122,982
	75,553,921	1,581,627	580,454	-	-	77,716,002	27,065,812	2,057,171	0	29,122,982

31-Dec-30

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal
Land	94,135					94,135				
Building	173,907					173,907				
Vehicles & equipment	1,838,260	75,629				1,913,890				
Treatment & Collection Systems	69,742,359		586,259	-	2,933,671	73,262,288				

Work-In-Progress - CIP	5,867,341	1,618,169		(2,933,671)	4,551,840							
Accumulated Deprec						29,122,982	2,160,119		31,283,101			
	77,716,002	1,693,799	586,259	-	-	79,996,060	29,122,982	2,160,119	0	31,283,101		48,712,959

31-Dec-31

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal		
Land	94,135					94,135						
Building	173,907					173,907						
Vehicles & equipment	1,913,890	77,898				1,991,788						
Treatment & Collection Systems	73,262,288		592,121	-	2,275,920	76,130,330						
Work-In-Progress - CIP	4,551,840	883,972			(2,275,920)	3,159,892						
Accumulated Deprec							31,283,101	2,244,467		33,527,568		
	79,996,060	961,870	592,121	-	-	81,550,052	31,283,101	2,244,467	0	33,527,568		48,022,483

31-Dec-32

	Beg Bal	Additions	Contributed Capital	Disposals	Transfer	Ending Bal	Beg Bal	Expense	Disposals	Ending Bal		
Land	94,135					94,135						
Building	173,907					173,907						
Vehicles & equipment	1,991,788	80,235				2,072,023						
Treatment & Collection Systems	76,130,330		598,043	-	1,579,946	78,308,318						
Work-In-Progress - CIP	3,159,892	689,164			(1,579,946)	2,269,110						
Accumulated Deprec							33,527,568	2,309,125		35,836,693		
	81,550,052	769,399	598,043	-	-	82,917,493	33,527,568	2,309,125	0	35,836,693		47,080,801

SANITARY SEWER USE REGULATIONS

Chapter One: Definitions

1.1 Definitions - The following words and terms as used in this regulation shall be deemed to mean and be construed as follows, unless the context specifically indicates otherwise. The word *shall* is always mandatory and not merely directory. The word *may* is permissive. Any word not herein defined shall be as defined in any recognized Standard English dictionary.

1.1.1 Administrative Authority - The person or persons or administrative agency appointed by the Boone County Regional Sewer District Board of Trustees to administer these regulations or portions thereof.

1.1.2 BOD (biochemical oxygen demand) - The quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty (20) degrees Celsius, expressed in milligrams per liter (mg/l).

1.1.3 Biosolids – Solid organic matter recovered from wastewater treatment that can be beneficially used, especially as fertilizer. Solids that have been stabilized within the treatment process, whereas sludge has not. (Revised 9/16/08)

1.1.4 Board - The Boone County Regional Sewer District Board of Trustees consisting of persons appointed by the County Commission according to provision or article. One of the trustees is a member of the County Commission.

1.1.5 Building Drain - That part of the lowest horizontal piping of a drainage system that receives the discharge from waste and other drainage pipes inside the walls of the building and conveys it to the building lateral, beginning three (3) feet outside the exterior face of the building wall.

1.1.6 Building Lateral - The pipe that extends from the building drain to the public sewer or other place of disposal.

1.1.7 Commercial User - Any contributor to the District's treatment works whose lot, parcel of real estate, or building is used for commercial purposes and produces normal domestic wastewater.

1.1.8 Construction - Any act of building and/or installing a wastewater collection system and/or centralized wastewater treatment facility or making such system or facility operational and functional and any act of repairing or replacing such a system or facility other than acts of routine maintenance necessary to keep such system or facility functional in accordance with its design.

1.1.9 Continuing Authority - The Boone County Regional Sewer District whenever it agrees to act or acts as such for purposes of wastewater collection and/or treatment facilities within the jurisdiction and geographic boundaries of the District.

1.1.10 Department - The Missouri Department of Natural Resources or successor agency.

1.1.11 District - The Boone County Regional Sewer District management, staff and crew acting under the authority of its designated officials.

1.1.12 Extra Strength Wastewater - Wastewater that has a BOD concentration of more than 250 milligrams per liter (mg/l) and/or a suspended solids concentration of more than 300 mg/l.

1.1.13 Industrial User - Any contributor to the District's treatment works whose lot, parcel of real estate, or building is used for industrial purposes and produces liquid wastes from industrial or commercial processes as distinguished from domestic wastewater.

1.1.14 Industrial Wastewater - Any industrial user having process waste streams which are subject to any federal categorical pretreatment standards either currently in effect or promulgated or modified after the effective date of this regulation shall comply with the requirements of such standards. All categorical pretreatment standards established pursuant to 40 CFR Chapter One, Subchapter N, are hereby incorporated by reference and are fully enforceable under this ordinance the same as if fully set out herein. Limitations established in such standards shall apply to the treated effluents from the processes regulated by the standard, unless otherwise specified by the standard. When the limits in a categorical pretreatment standard are production based, the administrative authority may convert the limits to equivalent mass or concentration for purposes of calculating effluent limitations applicable to individual users. Where regulated process effluents can not be sampled prior to mixing with other wastestreams, alternative limits for the mixed effluent may be established by the administrative authority using the combined wastestream formula subject to the provisions of 40 CFR 403.6(e). (Revised 9/16/08)

1.1.15 Interference - The inhibition or disruption of the Boone County Regional Sewer District's wastewater works or operations or its processing, use or disposal of sludge, by a user's discharge which alone or in conjunction with other discharges, causes, or contributes to the inhibition or disruption and which: (a) causes a violation of any requirement of the Boone County Regional Sewer District's NPDES Permit (including an increase in the magnitude or duration of a violation); or (b) prevents the use or disposal of sludge by the Boone County Regional Sewer District in compliance with the following statutes and regulations: Section 503 of the Clean Water Act; the Solid Waste Disposal Act; including Title II commonly referred to as the Resource Conservation and Recovery Act (RCRA); any state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the Solid Waste Disposal Act; the Clean Air Act; the Toxic Substances Control Act; or any more stringent state or local regulations. A user contributes interference when the user:

- (1) Discharges a pollutant concentration or a daily pollutant loading in excess of that allowed by District regulation or Department permit or by federal, state or local law;
- (2) Discharges wastewater that substantially differs in nature and constituents from the user's normal average discharge;
- (3) Knows or has reason to know that its discharge, alone or in conjunction with discharges from other users, would result in interference; or
- (4) Knows or has reason to know that the District is, for any reason, violating its NPDES Permit and that the user's discharge either alone or in conjunction with discharges from other users, increases the magnitude or duration of the District's violations.

1.1.16 Modification - Any act or work upon an existing wastewater collection system and/or centralized wastewater treatment facility that changes the design or function of the system or facility other than routine maintenance.

1.1.17 NPDES Permit - A permit issued under the National Pollutant Discharge Elimination System pursuant to the Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. § 1251 et seq., for a discharge into waters of the state.

(Revised 9/16/08)

1.1.18 Natural Outlet - Any passage of escape or exit that drains into a watercourse, pond, ditch, lake or other body of surface water or groundwater.

1.1.19 Normal Domestic Wastewater - Wastewater discharging from dwellings (including apartment houses and hotels), office buildings, factories or institutions, and free from storm water, surface water and extra strength wastewater and has a BOD concentration of not more than 250 milligrams per liter (mg/l) and a suspended solids concentration of not more than 300 mg/l.

1.1.20 Operation and Maintenance - All expenditures during the useful life of the treatment works for materials, labor, utilities, and other items which are necessary for managing and maintaining the sewage works to achieve the capacity and performance for which such works were designed and constructed.

1.1.21 Owner - Any person or persons, jointly and severally, and any agent or representative of such person which requests and for which the District applies for and obtains a Department construction or operating permit as Continuing Authority for a wastewater collection system or treatment facility. The term AOwner@ shall include the person, entity or organization having an ownership or possessory interest in real estate upon which a wastewater collection system or treatment facility under permit is situated and shall include persons with contract rights in any such system or facility prior to conveyance of such system or facility to the District. The term AOwner@ shall include any person, entity or organization to which these regulations otherwise apply.

1.1.22 Pass Through - A discharge of a pollutant from the Boone County Regional Sewer District's wastewater treatment works into waters of the State of Missouri when such discharge causes a violation of any requirement of the District's NPDES permit, or a violation of a state or federal water quality standard or increases the magnitude or duration of any violation and which is the result of a user's discharge of the pollutant either alone or in conjunction with other users' discharges of the pollutant in the District's wastewater treatment works. A user contributes to pass through when the user:

- (1) Discharges a pollutant concentration of a daily pollutant loading in excess of that allowed by District regulation or Department permit or by federal, state or local law;
- (2) Discharges wastewater that substantially differs in nature and constituents from the user's normal average discharge;
- (3) Knows or has reason to know that its discharge, alone or in conjunction with discharges from other users, would result in pass through or

- (4) Knows or has reason to know that the District is, for any reason, violating its final effluent limitations in its NPDES permit and that the user's discharge either alone or in conjunction with discharge from other users, increases the magnitude or duration of the District's violations.

1.1.23 Permit - Written authorization issued by the Department and the District allowing the Owner to construct or modify or operate a wastewater collection system and/or centralized treatment facility subject to these regulations.

1.1.24 pH - The logarithm (base ten) of the reciprocal of the hydrogen ion concentration in moles per liter of solution.

1.1.25 Public Sanitary Sewer Systems - Wastewater collection systems and wastewater treatment facilities that are controlled by public authority, also referred to in these ordinances as the District's wastewater treatment works.

1.1.26 Replacement - Expenditures for obtaining and installing equipment, accessories, or appurtenances that are necessary during the useful life of the wastewater treatment works to maintain the capacity and performance for which such works were designed and constructed. The term *Operation and maintenance* includes replacement.

1.1.27 Residential User - Any contributor to the District's wastewater treatment works whose lot, parcel of real estate, or building is used for domestic dwelling purposes only and produces normal domestic wastewater.

1.1.28 Sanitary Sewer - A pipe or conduit that carries domestic, industrial or normal wastewater and to which storm waters, surface waters and groundwater are not admitted.

1.1.29 Sewer - A pipe or conduit for carrying domestic, industrial or normal wastewater and other waste liquids and/or storm water.

1.1.30 Slug Discharge - Any discharge at a flow rate or concentration that could cause interference as defined herein.

1.1.31 Sludge – Accumulated and concentrated solids generated within the wastewater treatment process that have not undergone a stabilization process. (Revised 9/16/08)

1.1.32 TSS (total suspended solids) - Solids that either float on the surface of, or are in suspension in water, wastewater or other liquids and which are removable by laboratory filtering, expressed in milligrams per liter (mg/l).

1.1.33 Useful Life - The estimated period during which the wastewater treatment works will be operated.

1.1.34 User - The owner or occupant of property or premises that is connected directly or indirectly or has available to the property or premises the facilities of the wastewater treatment works of the Boone County Regional Sewer District.

1.1.35 Wastewater or Sewage - A combination of the water-carried wastes from residences, business buildings, institutions and industrial establishments.

1.1.36 Wastewater Collection System - Any system or method employed to collect, transmit or distribute waterborne waste, sewage, or other waterborne pollutants or contaminants from two or more sources of origination to a centralized treatment facility employing hydrologic or engineering principles to improve water quality to governmentally prescribed standards.

1.1.37 Wastewater Treatment Facility - Any structures and equipment designed, constructed or operated to receive 1500 gallons or more per day of waterborne waste, sewage or other pollutants from two or more sources of origination and treat such waterborne waste to governmentally prescribed standards.

1.1.38 Wastewater Treatment Works - Any devices and systems for the storage, treatment, recycling, and reclamation of municipal sewage, domestic sewage, or liquid industrial wastes. These include interceptor sewers, outfall sewers, sewage collection systems, individual systems, pumping, power, and other equipment and their appurtenances; extensions, improvements, remodeling, additions, and alterations thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities; and any works, including site acquisition of land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment (including land for composting sludge, temporary storage of such compost, and land used for the storage of treated wastewater in land treatment systems before land application); or any other method or system for preventing, abating, reducing, storing, treating, separating, or disposing of municipal waste or industrial waste, including waste in sanitary sewer systems.

1.1.39 Water Meter - A water volume measuring and recording device, furnished and/or installed by the water supplier for the property.

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Chapter Two: Sanitary Sewer Use Regulations

2.1 Title - These regulations including appendixes and tables shall be known, referred to and cited as the Sanitary Sewer Use Regulations.

2.2 Scope and Purpose - These regulations govern the use of public sanitary sewers, the installation and connection of building sanitary sewers, and the discharge of waters and wastes into the public sanitary sewer systems: and provides penalties for violations thereof in the service area of the Boone County Regional Sewer District, as established by the Boone County Regional Sewer District Board of Trustees. These regulations are enacted in order to protect and promote the public health and to ensure the safe and efficient delivery of wastewater collection and centralized treatment services within the areas of Boone County, Missouri, subject to the jurisdiction of the Boone County Regional Sewer District.

2.3 Authority - These regulations are enacted under the authority vested in the Boone County Regional Sewer District by sections 204.320 and 204.330, Revised Statutes of Missouri.

2.4 Jurisdiction - These regulations shall be applicable to all areas within Boone County, Missouri, to which the District operates and maintains public sanitary sewer systems.

2.5 Exemptions from District Regulations - These regulations shall not be applicable in the following circumstances:

2.5.1 Systems Under Jurisdiction of Other Entity - No construction, operating, or other permit shall be issued in the name of the District for any wastewater collection system or treatment facility if there is another public or governmental wastewater management and treatment agency having jurisdiction, or concurrent jurisdiction with the consent of the District, willing to provide wastewater collection and treatment services.

2.5.2 Systems Permitted by Department to Other Entity - No wastewater collection system or treatment facility shall be subject to these regulations if constructed and operated under Department permit issued to another public or governmental wastewater management and treatment agency having exclusive jurisdiction or if the District waives the right to act as Continuing Authority for such system or facility.

2.6 General Provisions Governing Disposal of Wastewater - The following general provisions shall be applicable to the disposal of wastewater or sewage:

2.6.1 Wastewater Treatment Required - It shall be unlawful for any person to place, deposit, or allow to be deposited in an unsanitary manner on public or private property within any area under the jurisdiction of the District, any human or animal excrement, garbage, or other objectionable waste which contaminates or pollutes the waters of this state. It shall be unlawful to discharge to any natural outlet within any area under the jurisdiction of the

District, any sewage or other polluted waters, except where suitable treatment has been provided in accordance with provisions of these regulations.

2.6.2 Classes of Sanitary Sewers - The general sanitary sewer system shall be composed of four (4) classes of sanitary sewers: public sanitary sewer systems; private common collector sanitary sewers; private sanitary sewer systems; and on-site systems. The determination as to the class to which any sanitary sewer belongs shall be made without regard to the area drained, the size, character or purpose thereof. All public sanitary sewers shall be constructed along streets, alleys and other public ways wherever practicable; and no such sanitary sewer shall be built or acquired by the District, unless it is on a public way or right-of-way or easement dedicated to the District or easement dedicated to public utilities. Such sanitary sewers may be connected with any other sanitary sewer of any class or with a natural course of drainage in accordance with these regulations and applicable laws.

2.6.2.1 Public Sanitary Sewer Systems - A sanitary sewer controlled by public authority and regulated by the Department. Public sanitary sewers are those which have been or may be constructed or acquired and paid for wholly out of any public funds available for that purpose for the public use, or sanitary sewer systems which have been built by a developer and/or private person and conveyed to the District. Public sanitary sewers shall be established along the principal courses of drainage, at such points, to such extent, of such dimensions and under such conditions as may be provided by regulation, and these may be extensions or branches of sanitary sewers already constructed or entirely new throughout, as may be deemed expedient.

2.6.2.2 Private Common Collector Sanitary Sewers - A private common collector sanitary sewer is a sanitary sewer line which is not owned and maintained by the District or other public entity and which serves two (2) or more lots, tracts or parcels of land or two (2) or more structures under separate ownership. The District shall not accept ownership or responsibility for operation, maintenance, or repair of private common collector sanitary sewers, unless constructed or reconstructed to standards established by the Department and District and the conveyance of which is formally accepted by the District, regardless of whether the District accepts sewage or wastewater therefrom for treatment or disposal, and regardless of whether persons using such sanitary sewers are customers of the District. No person shall record any instrument of conveyance of any interest in a private common collector sanitary sewer without written acceptance of the Board prior to recordation. The District may accept wastewater for treatment from private collection sewers of any type constructed prior to the enactment of these regulations, but the District shall not operate or maintain or repair any collection sewers not owned by the District, nor shall the District assume any legal or financial responsibility for the operation, maintenance, or repair or common collection sewers not owned by the District. Whenever practicable, the District shall notify property owners or other persons who are connected to privately owned common collector sewers and who receive wastewater treatment services from the District of the existence of this regulation by any method deemed appropriate; such notice filed in the land records of Boone County, Missouri, pertaining to property effected by this regulation shall be presumed effective; provided, however, failure of the District to provide such notice shall not effect the validity of this regulation, nor establish any financial or legal obligation of the District to provide operation, maintenance, or repair serviced to private collection sewers, nor establish any legal liability on the part of the District for any injury or damage caused by non-maintenance or repair of private collection sewers.

2.6.2.3 Private Sanitary Sewer Systems - A private sanitary sewer system is a system that is not under the jurisdiction of the District or other governmental entity and which is regulated by the Department and, when applicable, the Missouri Public Service Commission. If neither the District under the provisions of these regulations nor any other public or governmental agency having jurisdiction is willing and/or able to provide wastewater collection and treatment services, but wastewater collection and treatment services are nonetheless required in the geographic area to which a Department issued operating permit is applicable and it is demonstrated that a competent, qualified and solvent private person, entity or organization is ready, willing and available to provide such services as Continuing Authority pursuant to Department regulations, then such other person, entity or organization may act as Continuing Authority without objection of the District if approved by the Department. Provided, however, that as authorized by section 644.027, RSMo, no private sanitary sewer system which is regulated by the Department shall be granted a new operating permit or renewal of an existing operating permit issued by the Department if the District gives notice to the Department and the Continuing Authority to whom such operating permit has been or will be issued that the District operates and maintains a public sanitary sewer collection and treatment system to which the private sanitary sewer system can be connected located within a reasonable distance of a District owned or operated public sanitary sewer to which connection is practicable. A District owned or operated public sanitary sewer shall be presumed to be within a reasonable distance of a private sanitary sewer system to which connection is practicable if the District determines that a) the operation of a private sanitary sewer system is or has not been in compliance with a Department issued operating permit or otherwise has been declared a public health nuisance or hazard by state or local authorities having jurisdiction, b) a connection to a District public sewer can be designed and constructed, c) the expense of connection to the District public sanitary sewer, either individually or in combination with one or more other new connections in close proximity to the private sanitary sewer system is no greater than the cost of installing a new private sanitary sewer system or repairing or reconstructing the existing private sanitary sewer system which complies with Department regulations and permit issued under such regulations as well as applicable District regulations, or d) that no private sanitary sewer system can be constructed or reconstructed which complies with all applicable state and local water pollution control regulations and applicable local zoning or land use regulations. In circumstances in which an existing private sanitary sewer system cannot be repaired or reconstructed to comply with all state and local water pollution control regulations and/or due to topography, local zoning, or other land use regulations, it is impracticable to repair or reconstruct the private sanitary sewer system which complies with all such applicable state and local regulations, then in such circumstances it shall be presumed that connection to a District public sanitary sewer is practicable. In such cases the Department shall deny issuance of a new operating permit, or terminate or deny renewal of an existing operating permit in accordance with Department policies and regulations and the operator of such private sanitary sewer system shall connect to the District system within a reasonable time established by the District.

(Revised 11-15-05 & 4-19-07)

2.6.2.4 Private On-site Sewage Disposal Systems - A private on-site sewage disposal system is defined as any subsurface sewage treatment system, lagoon disposal system or other waterborne waste disposal method employing basic hydrologic or engineering principles which receives 1500 gallons or less of waterborne waste per day. Private on-site

sewage disposal systems are regulated by the Boone County Small On-site Wastewater System Regulations and Boone County Subdivision Regulations enforced by the Boone County Health Department. It shall be unlawful to construct or maintain any privy, privy vault, septic tank, cesspool, or other facility intended or used for the disposal of sewage except as otherwise regulated by Boone County and state law. The owner of any house, building, or property used for human employment, recreation, or other purposes, situated within Boone County, and abutting on any street, alley, or right-of-way without public sanitary sewer but which may have public sanitary sewer in the future are hereby required to install suitable toilet and waste water disposal facilities therein in accordance with applicable building and plumbing codes, and to connect such facilities directly with the closest public sanitary sewer at the owner's expense in accordance with the provisions of these regulations, within sixty (60) days after date of official notice to do so or such longer time as reasonably determined necessary by the District for good and sufficient cause, whenever a permit to construct or repair an onsite waste water disposal system is denied by the Boone County Health Director or designee in accordance with chapter IV of the Boone County Code of Health Regulations, which is hereby incorporated by reference.

(Revised 6-20-07)

2.7 Design and Construction of Wastewater Collection Systems and Treatment Facilities

- Wastewater collection systems and treatment facilities shall be designed and constructed in accordance with the following requirements:

2.7.1 Design Standards for Wastewater Collection Systems and Treatment Facilities - All collection systems and treatment facilities shall be designed in accordance with generally accepted engineering principles with sufficient capacity to collect and/or treat wastewater generated in the geographic area which is subject to the Department construction permit application to which the system or facility pertains considering the maximum population density and permissible land uses in such area.

2.7.1.1 Specifications - All collection systems and treatment facilities shall be designed in accordance with the following: the Sanitary Sewer Specifications and Standards adopted by City of Columbia, the Septic Tank Effluent Pump Specifications adopted by the District, the Pump Station and Wastewater Treatment Facility Specifications adopted by the District.

2.7.1.2 Compliance with District's Long Range Plan - All plans and specifications issued in support of an application for a construction or operating permit shall be consistent and in compliance with the District's master plan for overall wastewater collection and treatment services to the extent practicable. The District's Long range plan for capital improvements and additions is based on AC Kirkwood report of October 1991, ARecommended Sewerage System Improvements and Capital Cost Estimates,@ and other engineering studies and evaluations of geographic areas in Boone County.

2.7.1.2.1 Eliminate Points of Discharge - Whenever practical, wastewater collection systems and treatment facilities shall be designed in a manner to minimize or eliminate points of wastewater discharge in the environment and shall only create

or establish new points of regulated wastewater discharge when no other alternative is reasonably available in the opinion of the District.

2.7.1.2.2 Provide for Future Growth - All collection systems and treatment facility designs submitted in support of construction permit issued in the name of the District as the Continuing Authority shall to the greatest extent practicable provide for or be designed to accommodate anticipated growth in wastewater collection and treatment capacity for the drainage area or service area to which the permit is applicable.

2.7.1.3 Design Compliance - All collection systems and treatment facilities shall be designed by an engineer registered in Missouri in compliance with applicable state of Missouri and federal clean water and pollution control regulations in effect at the time of design, and may only be constructed and modified in accordance with plans and specifications prepared by a registered engineer.

2.7.1.3.1 Public Sanitary Sewer Extended to Each Lot - It shall be unlawful to connect a sanitary sewer line of any type to a public sanitary sewer unless such public sanitary sewer is extended a minimum of ten feet inside the property line of the lot or tract to be provided with public wastewater collection and treatment service; and in any case where the public sanitary sewer is located deeper than ten feet from grade, it shall be extended at least one foot further inside the property line beyond ten feet for every twelve inches depth in excess of ten feet.

2.7.1.3.2 Private Sanitary Sewer Laterals - It shall be unlawful for any private sanitary sewer lateral to be extended off the described, platted or surveyed lot or tract of land from which it originates except in cases where such private lateral extends into or across a publicly maintained road or street right of way or general utility easement abutting such property in order to connect to an existing District owned and operated sewer line located within or immediately adjacent to such road or street or general utility easement such that such private sewer lateral does not extend into or encroach upon any other private property. Subject to the foregoing, it shall be unlawful for any person to connect a sanitary sewer line of any type to a District owned and operated sanitary sewer unless such public sanitary sewer is extended a minimum of ten feet from and within the property line of the lot or tract to be provided with public wastewater collection and treatment service; and in any case where the public sanitary sewer is located deeper than ten feet from grade, it shall be extended at least one foot further inside the property line beyond ten feet for every twelve inches depth in excess of ten feet. (Revised 11/21/2006; 9/16/08)

2.7.1.3.3 Common Collectors - It shall be unlawful for two or more privately owned wastewater collection lines originating from separate dwellings, buildings, or other structures, or from two or more septic tanks, lagoons or other wastewater treatment facilities to be connected to each other unless the District grants a variance for such extension or connection. A variance may be granted upon showing that the extension or connection does not violate any applicable federal or state clean water law, rule or regulation, that without the variance the person or persons seeking the variance will incur unreasonable and unnecessary hardship, and that such person or persons can demonstrate that adequate provision has been made for perpetual maintenance and operation of such facilities.

2.7.1.4 Plan Approval - Plans and specifications prepared for any collection system or treatment facility shall be approved by the administrative authority when the District is the permittee and also by all public or governmental agencies having jurisdiction prior to construction, modification or operation.

2.7.1.5 Costs and Liability - Except in cases when the District is both the Owner and permittee under a Department construction permit, all design and construction work performed under such permit shall be performed at the sole cost, expense and liability of the Owner. The District shall have no liability or responsibility for such work.

2.7.1.6 Fees - The District by resolution or other official action by its Board may from time to time impose such user fees in the form of permit fees, inspection fees or other charges as it may deem appropriate as long as such user fees are based on the actual cost or reasonable estimate of actual cost of providing permits, inspections or administrative services of direct benefit to the person receiving such services.

2.7.1.7 Certification - No collection system or treatment facility shall be made operational unless written certification is issued by a licensed engineer that the facilities constructed or modified under Department construction permit have been completed in accordance with approved plans and specifications for the work under such permit as required by Department regulations.

2.7.1.8 Conveyance - Once the collection system and/or treatment facility is found to be in compliance with District regulations, the system and/or facility shall be conveyed to the District. The treatment facility and collection system shall be conveyed by Bill of Sale. Real estate rights to collection systems shall be conveyed by easement. Real estate rights to treatment facilities shall be conveyed by Warranty Deed. Prior to District's acceptance of any warranty deed, the party conveying such warranty deed shall provide the District with a policy of title insurance issued by a reputable insurer in such amount and with such coverage for the full insurable value of the property to be conveyed as determined by District to be appropriate to assure District of marketable title free and clear of all liens and encumbrances. District further reserves the right to require such title insurance on other interests in real property conveyed to District as determined reasonably appropriate by District under the circumstances to protect the interests of the District. Upon District formal acceptance of instruments of conveyance, the District will act as Continuing Authority and be responsible for the upkeep and maintenance of real estate and improvements located therein. The District reserves the right to further extend mains and collection lines and to connect other sanitary sewers without additional or further compensation to the grantors of real and personal property interests after District acceptance of conveyances. (Revised 6-20-07)

2.7.1.9 Condition of Conveyed Wastewater Collection and Treatment Equipment All manufactured wastewater collection and treatment equipment to be transferred and conveyed to the Boone County Regional Sewer District for ownership and operation, including but not limited to pump stations and treatment plants, shall be new or reconditioned, but in all cases shall have at least a one year manufacturer warranty that such equipment is free from defect in material and workmanship and in the event that defects in materials or workmanship are discovered during the warranty period, such equipment shall be repaired or replaced at manufacturer expense. Boone County Regional Sewer District shall be the sole judge of the acceptability of all manufacturer warranties under the provisions of this

regulation and reserves the right to refuse for acceptance and operation any equipment that is not reliably warranted by a manufacturer of established reputation within the industry that produces the equipment to be warranted. (Adopted 9/17/2002)

2.7.2 Construction Permits - Unless exempt from the provisions of these regulations, no collection system and/or treatment facility shall be constructed or modified except in compliance with the terms and conditions of both the Department construction permit as well as the District construction permit and in accordance with the approved application.

2.7.2.1 Plan Modifications - Unauthorized changes, deviations or modifications that constitute a violation of the Department construction permit shall subject the Owner to imposition of penalties as provided by these regulations.

2.7.2.2 Costs and Liability - Unless otherwise agreed by written contract, the person designated as Owner of the wastewater collection system and/or treatment facility specified in a construction permit application and permit shall be wholly responsible for the performance of and payment for all design and construction work necessary under the permit.

2.7.3 Inspections and Testing of Wastewater Collection Systems and Treatment Facilities - Except in cases in which the District is not the designated Continuing Authority, no collection system and/or treatment facility shall be used or operated except under permit issued to the District pursuant to Department regulations after inspection of same is conducted by the Administrative authority and the system and/or facility is approved and found to be in compliance with these regulations.

2.7.3.1 Access for Inspections - No final inspection shall be conducted or approval granted for the use or operation of any collection system and/or treatment facility unless such system and/or facility is exposed for inspection and/or put in a condition to be tested at the Owner's expense so that the system and/or facility can be examined for compliance with these regulations. Any system and/or facility which has been backfilled in whole or part, or covered or completed such that complete inspection or testing for compliance can not be conducted shall, upon request of the Administrative authority, be uncovered, re-excavated, or otherwise exposed or put in a condition to be inspected or tested at the sole expense of the Owner in order that a complete inspection or testing can be conducted for purposes of determining compliance with these regulations.

2.7.3.2 Failure to Allow Inspections - Any Owner which shall fail to expose or otherwise make a system and/or facility available for complete inspection or testing upon request of the Administrative authority or governmental agency having jurisdiction during construction or after completion of construction but prior to final inspection shall be subject to District's application to the Department to terminate the construction permit, or District's refusal to obtain an operating permit from the Department, and/or penalties or relief provided for under these regulations.

2.7.4 Operation of Wastewater Collection Systems and Treatment Facilities Prior to District Acceptance - If operation and maintenance of a system and/or facility is necessary prior to District acceptance, the following applies:

2.7.4.1 District as Continuing Authority - Unless exempt from the provisions of these regulations, no owner or other person shall operate any wastewater collection system and/or treatment facility not owned by the District except under an operating permit issued in the name of the District.

2.7.4.2 Owner Responsibility - Except as may be otherwise provided by written contract between the District and the Owner or until such time as all property interests of or pertaining to a wastewater collection system and/or treatment facility operated under an operating permit issued to the District are conveyed to and accepted by the District, the Owner of such system and/or facility shall be wholly responsible for the operation and maintenance of such system and/or facility regardless of whether the District receives fees or charges for the use of such system and/or facility.

2.7.4.3 Repair of Deficiencies - The Owner of such system and/or facility shall be wholly responsible for the prompt remedy and repair of any operational defect or deficiency in the system and/or facility or violation of any applicable law, rule or regulation pertaining to such system and/or facility.

2.7.4.4 District Responsibility - The District shall have the right but not the obligation to take any measures necessary to protect the public health, safety or welfare for any system and/or facility for which a construction permit has been applied for from the Department listing the District as the continuing authority or the operating authority or under which an operating permit is or will be issued in the name of the District regardless of whether the Owner of such system and/or facility takes or has a legal obligation to take any such measures.

2.7.4.5 Remedial Measures and Costs - Any Owner which shall fail, neglect or refuse to operate or maintain such system and/or facility, or which shall fail, neglect or refuse to remedy or repair any such defect or deficiency or otherwise correct any such violation shall be liable to the District for the reasonable costs of any remedial measures taken by the District to protect the public health, safety or welfare necessitated by the Owner's failure, neglect or refusal to take necessary remedial measures in addition to being subject to any penalty or relief provided for in these regulations.

2.7.4.6 Enforcement Costs - Any person or Owner who or which obtains any permit issued in the name of the District as controlling or operating authority under Department regulations is presumed to understand and agree to the content of these regulations and in the event any person, entity, or organization, whether singular or plural, who or which is listed as an Owner or agent of the Owner on any such permit violates or facilitates a violation of any regulation hereunder shall be liable to the District for the actual cost of remedial measures taken to protect the public health or safety and for enforcing these regulations due to such violation, including court costs, reasonable attorney fees and the actual expense of any laboratory testing and expert witness fees incurred by the District in enforcing these regulations as to the person or Owner in violation. Such costs may be entered as a judgment against the person or Owner in violation in addition to or in lieu of any court imposed penalty.

2.8 Acceptance of Existing Sanitary Sewer Systems - The District Board may accept the conveyance of a private sanitary sewer system if the system meets District specifications and is properly conveyed by way of easements, bill of sale and warranty deed.

2.9 Individual Building Connections to District Wastewater Treatment Works - Individual buildings may be connected to District owned and operated sewer lines by means of private service laterals in accordance with applicable plumbing codes and District regulations. Private service laterals extending from the building which they serve to the District sewer line, including the point of connection to the District sewer line, are the property of the person or persons owning the property upon which they are situated. As such, the owner of such property has the responsibility and liability for the installation, maintenance, and repair of such private laterals. Accordingly, individual building connections may be made to the District sewer lines in accordance with the following requirements:

(Revised 11/21/2006)

2.9.1 Application for Service - No unauthorized person shall uncover, make any connections with or opening into, use, alter, or disturb any public sanitary sewer or appurtenance thereof without first filing an application for service with the District.

2.9.2 Classes of Applications - There shall be two (2) classes of applications for service: (a) for residential and commercial service, and (b) for service to establishments producing industrial wastes. In either case, the owner or their agent shall make application on a form furnished by the District. The application shall be supplemented by any plans, specifications, or other information considered pertinent in the judgment of the District.

2.9.3 Fees - Payment of inspection fees and connection charges are due at the time of application. The District by resolution or other official action by its Board may from time to time impose such user fees in the form of permit fees or other charges as it may deem appropriate as long as such user fees are based on the actual cost or reasonable estimate of actual cost of providing permits, inspections or administrative services of direct benefit to the person receiving such services.

2.9.3.1 Inspection Fee For Connections -- An inspection fee shall be chargeable for new connections to District owned and operated sewers as follows: Seventy Dollars (\$70.00) for a residential, commercial, and industrial building gravity sanitary sewer connection and One Hundred and Forty Dollars (\$140.00) for a residential, commercial or industrial pressurized sanitary sewer connection. Inspection fees shall be paid to the District at the time the application for sewer service shall be filed. (Revised 01/01/2018)

2.9.3.2 Connection Charge – A charge with every new or additional or expanded building connection to the District, shall be paid to the District upon application for sewer service. Each new residential or commercial user of the wastewater system shall pay a wastewater system connection fee per residential or commercial unit. An expanded connection is any existing connection that increases the size or number of water meters serving its premises. The connection charge shall be in accordance with the following connection charge schedule and shall be based upon the water meter(s) size serving the premises excluding those set by special regulation for particular collection systems.

<u>Size of water meter in Inches</u>	<u>BCRSD Connect Fee</u>
<u>5/8 and 3/4</u>	<u>\$1,600.00</u>
<u>1</u>	<u>\$2,675.00</u>
<u>1 1/2</u>	<u>\$5,350.00</u>
<u>2</u>	<u>\$8,560.00</u>

The connection fee for water meters larger than 2” will be determined by District staff on a case by case basis. (Revised 12/15/2015, 12/17/2014, 1/1/04, 4/20/04, 12/19/06, 5/18/10)

2.9.3.2.1 New User Exemptions - New users of the District shall not be assessed an initial connection charge in the following instances but any increase in the size or number of water meters shall be assessed for expanded use:

- (1) If an unexpired building permit is or was in existence for the premises on the date this new rule is adopted.
- (2) If a user’s premises is served by the District or the new user occupies a structure in and has been or will be assessed for connection to a sanitary sewer improvement project financed under the Neighborhood Improvement District Act for public sanitary sewer services on the effective date this new rule is adopted.
- (3) If there is a break in sanitary sewer service to the user’s premises for less than two years.
- (4) If metered water usage on the user’s premises is solely for purposes of fire protection or landscape irrigation or otherwise not connected to sewage collection or treatment facilities owned or operated by the District.

2.9.3.2.2 Waivers - The Board may waive imposition of connection charges in cases where the District has adopted a sewage capacity cost allocation ordinance in the area subject to connection charges or in cases where a real estate subdivider or developer has entered into a binding agreement with the District in which the subdivider or developer installs or pays for all or substantially all of the costs of installing public wastewater collection facilities and additional sewage treatment capacity, when applicable, and agrees to convey such facilities to the District. Connection charges also may be waived in cases where public wastewater collection and/or treatment facilities to which connection is made are being financed under the provisions of the Neighborhood Improvement District Act.

2.9.3.2.3 Increase in Size and Number of Water Meters - Any user who increases the size of a water meter(s) serving its property or premises shall pay a charge equal to the difference between the connection charge for the meter(s) which existed prior to the increase and the connection charge for the newly installed meter(s). Any user who increases the number of water meters serving its property or premises shall pay a connection charge for each additional water meter in accordance with section 2.9.3.2 above.

2.9.3.3 Elimination of Connection - Failure to pay inspection fees and connection charges and other applicable fees shall be grounds for the District to eliminate the connection until such time as the charges are paid in full or construction requirements are satisfied.

2.9.4 Construction Costs - All costs and expenses incident to the installation and connection of the building sanitary sewer shall be borne by the owner. The owner shall indemnify the District from any loss or damage that may directly or indirectly be occasioned by the installation of the building sanitary sewer.

2.9.5 Separate Building Connections - A separate and independent sanitary sewer connection shall be provided for every building.

2.9.6 Connection of New Buildings - The applicant shall install at applicant's expense necessary sewage facilities and sanitary sewer lines along public highways, roadways, streets, or alleys where grades have been established, or within dedicated easements acceptable to the District.

2.9.6.1 Private Service Laterals and Public Sanitary Sewer Extension-
No private sewer service lateral shall extend off of the property which it serves except in cases where such private lateral extends into or across a publicly maintained road or street right of way or general utility easement abutting such property in order to connect to an existing District owned and operated sewer line located within or immediately adjacent to such road or street or general utility easement such that such private sewer lateral does not extend into or encroach upon any other private property. Subject to the foregoing, it shall be unlawful for any person to connect a sanitary sewer line of any type to a District owned and operated sanitary sewer unless such public sanitary sewer is extended a minimum of ten feet from and within the property line of the lot or tract to be provided with public wastewater collection and treatment service; and in any case where the public sanitary sewer is located deeper than ten feet from grade, it shall be extended at least one foot further inside the property line beyond ten feet for every twelve inches depth in excess of ten feet.

(Revised 11/21/2006)

2.9.6.2 Construction Specifications - The size, slope, alignment, materials of construction of a building sanitary sewer, and the methods to be used in excavating, placing of the pipe, jointing, testing and backfilling the trench, shall all conform to the requirements of the building and plumbing code or other applicable rules and regulations of the Boone County Department of Planning & Building Inspections.

2.9.6.3 Elevation - Whenever possible, the building sanitary sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to allow gravity flow to the public sanitary sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the building sanitary sewer.

2.9.6.4 Connection Specifications - The connection of the building sanitary sewer into the public sanitary sewer shall conform to the requirements of the building and plumbing code or other applicable rules and regulations of the Boone County Department of Planning and Building Inspection and/or the applicable regulations of the City of Columbia. All such connections shall be made gas tight and watertight. Any deviation from the prescribed procedures and materials must be approved by the administrative authority before installation.

2.9.6.5 Inspection of Connection and Building Lateral Required - The applicant for the building sanitary sewer connection permit shall notify the District when the connection to the public sanitary sewer is ready for inspection. The connection and the building lateral from the house or building drain to the District's sanitary sewer main shall be left uncovered for inspection. Failure of the applicant to provide for the inspection will result in the lateral and connection being uncovered at the applicant's expense in order that the connection and lateral may be inspected for proper installation by the District personnel.

2.9.6.6 Safety and Reclamation - All excavations for building sanitary sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the District.

2.9.6.7 Use of Existing Sanitary Sewer Lines - Old sanitary sewer lines may be used in connection with new buildings only when they are found, on examination and test by the District, to meet the requirements of these regulations.

2.9.7 Connection of Existing Buildings - At such time as public sanitary sewer with sufficient treatment capacity becomes available to a property served by a private on-site sewage disposal system, a direct connection shall be made to the public sanitary sewer within ninety (90) days of availability in compliance with this regulation, if practicable. Any septic tanks, cesspools, and similar private sewage disposal facilities shall be abandoned and filled with suitable material.

2.9.8 Unlawful Connections - It shall be unlawful to make any connection to a public sanitary sewer in the following respects:

2.9.8.1 Sources of Surface Runoff or Groundwater - No person shall make connection of roof downspouts, exterior foundation drains, areaway drains, or other sources of surface runoff or groundwater to a building sanitary sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer.

2.9.8.2 Substantial Additions to the Water-using Equipment or Appliances - No substantial additions to the water-using equipment or appliances connected to the sanitary sewer system of the District shall be made except upon written notice to, and with the written consent of, the District.

2.9.9 Maintenance and Repair of Private Service Laterals and Connections - Any person or persons owning or possessing property served by and connected to a District owned and operated sewer line shall be solely responsible for the operation, maintenance and repair of the service lateral line from the building it serves up to and including the point of connection to the District sewer line unless otherwise specifically provided for by District regulation. In addition to the provisions of other District regulations and in the event that the District gives any person or persons owning or possessing property served by and connected to a District owned and operated sewer line a warning or notice of violation as a result of inspection and determination that their private service lateral or connection to the District sewer line is defective or in disrepair, then such person or persons shall immediately repair or replace such lateral or connection or take such other remedial action as necessary in accordance with the requirements of such warning or notice so given. (Revised 11/21/2006)

2.10 Backflow Prevention Devices - The District may require any customer to install a backflow prevention device at the customer's expense on the customer's lateral or house drain as a condition to provision of wastewater collection and treatment services to the customer's property if the District finds that installation of such device is necessary to prevent a possible sewage backup into a habitable dwelling or structure. The District shall require every customer to install a backflow prevention device at the customer's expense on the customer's lateral or house drain as a condition to provision of wastewater collection and treatment services to the customer's property for all new construction and/or all repair, renovation, or rehabilitation of laterals or house drains. Such backflow prevention devices may include backwater valves, grinder pumps, or other equipment designed to prevent sewage backflow, so long as the particular device to be installed is approved by the District prior to installation; provided, however, that the District's approval of any backflow prevention device chosen by the customer is not intended and shall not be construed to indicate that the District assumes responsibility or liability for the adequacy or sufficiency of the design or function of any such device. The extendable backwater valve manufactured by Clean Check, Inc., Part # EBV-P401AP with adapter and plug, and approved equal, is hereby recognized and approved by the District for such installation. It shall be the responsibility of the customer or qualified professionals retained by the customer to periodically inspect, maintain, and repair any such device installed in accordance with manufacturer specifications and recommendations. The District assumes no responsibility or liability for the failure of a backflow prevention device to function or otherwise prevent sewage backflow after installation.

(Revised 9/21/04 & 11/21/2006, 6/15/10)

2.11 Notice Required Prior to Excavation - Any person desiring to lay pipes for water, gas, steam, or other purposes, in any street or alley upon which sanitary sewers are to be laid, shall give at least forty-eight (48) hours' notice to the District before opening the street, and the manner of excavating and backfilling over such pipe shall be subject to the approval of the District. All such work shall be planned and executed so that no injury shall occur to any public sanitary sewer or to any building sanitary sewer connected therewith.

2.12 Unlawful Discharges - The following discharges shall be prohibited in the public sanitary sewers:

2.12.1 Pollutant Limits - Except as hereinafter provided, it shall be unlawful for any person to discharge or cause to be discharged into any sanitary sewer any of the following described substances, materials, water or wastes:

- (1) Any liquid or vapor having a temperature higher than one hundred fifty (150) degrees Fahrenheit (sixty-five (65) degrees Celsius).
- (2) Any pollutants with a closed cup flashpoint of less than one hundred forty (140) degrees Fahrenheit or sixty (60) degrees Celsius.
- (3) Any gasoline, benzene, naphtha, fuel oil, mineral oil, or other flammable or explosive liquid, solid or gas.

- (4) Any water or wastes containing more than two hundred (200) milligrams per liter (mg/l) of fat, oil or grease [emulsified oil or grease exceeding on analysis an average of one hundred (100) mg/l floatable and six hundred (600) mg/l dispersed of other soluble matter].
- (5) Any water or wastes that contain grease or oil or other substances that will solidify or become discernibly viscous at temperatures between thirty-two (32) and one hundred fifty (150) degrees Fahrenheit (zero (0) and sixty-five (65) degrees Celsius).
- (6) Any garbage that has not been properly shredded or comminuted to a degree that all particles will be carried freely under the flow conditions of the sanitary sewer with no particle greater than one-half inch in any dimension.
- (7) Any ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, paunch manure, hair and fleshings, entrails, lime slurry, lime residues, beer or distillery slops, chemical residues, paint residues, unapproved cannery waste, bulk solids, or any other solid or viscous substance capable of causing obstruction to the flow in sanitary sewers or other interference with the proper operation of the wastewater treatment facility.
- (8) Any water or wastes having corrosive properties capable of causing damage or hazard to pipe, structures, equipment or personnel of the wastewater treatment facility or collection system. Free acids and alkalis of such wastes must be neutralized within a permissible range of pH between 5.5 and 9.5. The administrative authority may grant variances for higher pH than 9.5, but in no event lower than 5.5.
- (9) Any water or wastes containing a toxic or poisonous substance, that result in toxic gases, fumes, or vapors, or of high chlorine demand in sufficient quantity to injure or interfere with any wastewater treatment works process, constitute a hazard to worker health and safety, or to other humans or animals, or create any hazard in the receiving waters or the effluent of the wastewater treatment facility.
- (10) Any water or wastes that contain more than ten (10) mg/l by weight of the following gases: hydrogen sulfide, sulfur dioxide or nitrous oxide.
- (11) Any water or wastes containing the discharge of acid pickling wastes or concentrated plating solutions, whether neutralized or not, which are capable of causing any obstruction, damage or corrosion in the sanitary sewers or the wastewater treatment facility.
- (12) Any waters containing suspended solids of such character and quantity that unusual provision, attention or expense is required to handle such materials at the wastewater treatment facility.

- (13) Any noxious or malodorous gas or other substance which either singly or by interaction with other wastes is capable of creating public nuisance or hazard to life or of preventing entry into sanitary sewers for maintenance and repair.
- (14) Any waters, wastes, materials or substances which react with water or wastes in the sanitary sewer system to release noxious gases, develop color of undesirable intensity, form suspended solids in objectionable concentration, or create any other condition deleterious to structures and treatment processes.
- (15) Any water or wastes that do not comply with applicable state and federal pretreatment standards and requirements.
- (16) No user shall introduce or cause to be introduced into the wastewater treatment works any pollutant or wastewater that causes pass through or interference. These general prohibitions apply to all users of the wastewater treatment works whether or not they are subject to categorical pretreatment standards, any regulation containing pollutant discharge limits promulgated by EPA in accordance with 33 U.S.C. ' 1317 which applies to a specific category of users and which appear in 40 CFR Chapter I, Subchapter N, Parts 405-471 or any other national, state, or local pretreatment standards or requirements.
- (17) No user shall introduce or cause to be introduced into the wastewater treatment works any pollutants, including oxygen-demanding pollutants (BOD, etc.), released in a discharge at a flow rate or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference with the wastewater treatment works.

2.12.2 Remedies for Pollutant Limits - If any waters or wastes are discharged, or are proposed to be discharged to the public sanitary sewers, which waters contain the substances or possess the characteristics enumerated in these regulations, and which in the judgment of the District, may have a deleterious effect upon the treatment works, processes, equipment, or receiving waters, or which otherwise create a hazard to life to constitute a public nuisance, the District may: reject the wastes; require pretreatment to an acceptable condition for discharge to the public sanitary sewers; require control over the quantities and rates of discharge; and/or require payment to cover the added cost of handling and treating the wastes not covered by existing sanitary sewer charges under the provisions of these regulations.

2.12.3 Pretreatment - If the District allows the pretreatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the District, and subject to the requirements of all applicable codes, regulations and laws including those dictated by the City of Columbia's pretreatment program. No statement contained in this section shall be construed as preventing any special agreement or arrangement between the District and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the District for treatment, subject to payment therefore, by the industrial concern. (Revised 9/16/08)

2.12.3.1 Pretreatment Requirements - Grease, oil, and sand interceptors shall be provided when, in the opinion of the District, they are necessary for the proper handling of liquid wastes, sand, or other harmful ingredients, except that such interceptors

shall not be required for private living quarters or dwelling units. All interceptors shall be of a type and capacity approved by the District, and shall be located as to be readily and easily accessible for cleaning and inspection.

2.12.3.2 Pretreatment Costs - Where preliminary treatment or flow-equalizing facilities are provided for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner at the owner's expense.

2.12.3.3 Pretreatment Monitoring - When required by the District, the owner of any property serviced by a buildings sanitary sewer carrying wastes shall install a suitable control manhole together with such necessary meters and other appurtenances in the building's sanitary sewer to facilitate observation, sampling, and measurement of the wastes. Such manhole, when required, shall be accessibly and safely located, and shall be constructed in accordance with plans approved by the District. The manhole shall be installed by the owner at his or her expense, and shall be maintained by him or her so as to be safe and accessible at all times.

2.12.3.4 Pretreatment Analysis - All measurements, tests, and analyses of the characteristics of waters and wastes to which reference is made in this regulation shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater," published by the American Public Health Association, and shall be determined at the control manhole provided, or upon suitable samples taken at said control manhole. In the event that no special manhole has been required, the control manhole shall be considered to be the nearest downstream manhole in the public sanitary sewer to the point at which the building sanitary sewer is connected. Sampling shall be carried out by customarily accepted methods to reflect the effect of constituents upon the sewage works and to determine the existence of hazards to life, limb, and property. (The particular analysis involved will determine whether a twenty-four (24) hour composite of all outfalls or a premise is appropriate or whether a grab sample or samples should be taken. A grab sample is an individual sample collected in less than fifteen (15) minutes, without regard for flow or time. Normally, but not always, BOD and suspended solids analyses are obtained from 24-hour composites of all outfalls whereas pH analyses are determined from periodic grab samples.)

2.12.3.5 Other Pretreatment Standards Applicable - Whenever a District customer is connected to a District collection line for which waste water treatment is provided by the City of Columbia or other municipality, and such waste water treatment provider has adopted ordinances or regulations requiring pretreatment and monitoring, then the customer's compliance with the requirements of those ordinances or regulations shall be applicable to the customer as a condition to District services to the customer regardless of whether District imposes the same or differing requirements; in the event of conflict between particular requirements, the higher or more rigorous standards intended to protect the public health shall be applicable. (Revised 5/12/04)

2.12.4 Unusual Waste Subject to Review, Regulation and Approval - Unusual wastes discharged into the District wastewater treatment works shall be subject to the following:

2.12.4.1 Wastes Unusual in Composition - Wastes which are unusual in composition, i.e., contain an extremely large amount of TSS or BOD; are high in dissolved solids such as sodium chloride, calcium chloride, or sodium sulfate; or are in any other way unusual, shall be reviewed by the administrative authority, who will determine whether such wastes shall be prohibited from or may be admitted to the District sanitary sewers or shall be modified or treated before being admitted. Wastes that, in the opinion of the administrative authority, are unusual or highly variable in volume shall be subject to flow equalization or other forms of regulation.

2.12.4.2 Unusual Water or Wastewater Due to Interaction - Any water or waste which, by interaction with other water or wastes in the public sanitary sewer system, releases obnoxious gases or develops color of undesirable intensity, or forms suspended solids in objectionable concentration, or creates any other condition deleterious to structures and treatment processes, shall be subject to control of the administrative authority.

2.12.5 Treatment or Flow Control May be Required - In cases where the administrative authority determines that wastes may be deleterious to the wastewater treatment works or have an adverse effect upon the wastewater treatment process or the receiving stream, or body of water, the administrative authority may require treatment to reduce the TSS, BOD or other constituents to levels more closely approaching those of normal wastewater before discharging such wastes into the District sanitary sewers. The administrative authority may also require any user to control its discharge to the public sanitary sewers so that it will not exceed a maximum percentage of the total flow in a sanitary sewer or to a treatment facility.

2.13 Unlawful Acts - The following acts or conduct shall be unlawful:

2.13.1 Allowing Pollutants to Enter Sanitary Sewer - It shall be unlawful to place or deposit or cause to be deposited or placed into any sanitary sewer any normal domestic wastewater, industrial waste or other polluted water except in accordance with the provisions of these regulations.

2.13.2 Tampering or Vandalism - It shall be unlawful to adjust, obstruct, damage, break or remove any portion of any manhole, cleanout, catch basin, inlet, outlet, or any part of the wastewater treatment works, or throw or deposit or cause to be thrown or deposited in any sanitary sewer opening or receptacle connecting with the wastewater treatment works, any matter or thing whatsoever, except in accordance with the provisions of these regulations or to obstruct in any way or uncover the public sanitary sewers for any purpose, or to make connection therewith, or uncover the public connection branches thereof, unless and except with the consent and under the supervision of the administrative authority.

2.13.3 Unauthorized or Deficient Connections - It shall be unlawful to make or cause to be made any such connections, except as herein provided, and by a competent and skillful mechanic, or to make such connections in any manner other than provided for by regulations adopted by the District.

2.13.4 Infiltration and Inflow - It shall be unlawful to allow the entry of ground water or storm water to the wastewater treatment works through: a faulty sanitary sewer service line or connection point with the public sanitary sewer; surface water area drain; subsurface cleanout; roof drain; or by pumping any unpolluted industrial process waters to any wastewater collection system.

2.13.5 Utilizing a Structurally Poor Connection - It shall be unlawful to utilize a service connection point that is structurally poor and deteriorated, protruding into the public sanitary sewer, causing infiltration or inflow of subsurface water, or allowing the growth of tree roots into the wastewater collection system.

2.13.6 Prohibited STEP System Waste Products – – It shall be unlawful to deposit or permit the deposit of solid or insoluble organic or inorganic waste products into a plumbing drainage system which uses a septic tank effluent pump except waste products generated by the human body and paper tissue products designed to dissolve and be used in sanitary sewer systems; provided, however, that no enforcement action shall be taken for violation of this rule unless the property owner or resident has first been given written notice of violation of this rule and thereafter commits a further violation of this rule.
(Revised 12-18-07)

2.13.7 Constructing or Utilizing a Private Lateral that extends into or encroaches upon any other private property - It shall be unlawful for any private sanitary sewer lateral to be extended off the described, platted or surveyed lot or tract of land from which it originates except in cases where such private lateral extends into or across a publicly maintained road or street right of way or general utility easement abutting such property in order to connect to an existing District owned and operated sewer line located within or immediately adjacent to such road or street or general utility easement such that such private sewer lateral does not extend into or encroach upon any other private property.

(Revised 9/16/08)

2.14 Enforcement - These regulations shall be enforced in the following manner:

2.14.1 Commission of Unlawful Act - Any person who commits an unlawful act under these regulations or who knowingly makes any false statement, representation or certification in any application, record plan or other document filed or required to be maintained or who falsifies, tampers with or knowingly renders inaccurate any monitoring device or method required hereunder shall be subject to the remedies provided for in section 2.15 below. Each day the unlawful act occurs or continues shall constitute a separate violation.

2.14.2 Violation of Chapter 644 RSMo Prohibited - It shall be unlawful for any person to violate or allow violation of any provision of Chapter 644 RSMo within the geographic boundaries of the District and any person who violates or allows violation of any such provision shall be subject to any penalties or relief provided for in these regulations; provided, however, that no enforcement proceeding hereunder shall be brought by or on behalf of the District or maintained by the District if any enforcement proceeding is brought by the Missouri Clean Water Commission or the Missouri Department of Natural Resources for the same violation or if either such agency shall notify the District of its intent to bring an enforcement proceeding for any such violation. No violation proceeding shall be brought by

or on behalf of the District for violation of any provision of Chapter 644 RSMo except in emergency or exigent circumstances unless the District has provided the Missouri Clean Water Commission or the Missouri Department of Natural Resources with actual notice of its intent to bring such proceeding, in writing or otherwise, and the fact of such notice is stated in the pleading filed in the legal proceeding for enforcement.

2.15 Remedies - If any person is found to be violating any provision of these regulations, the administrative authority may, at his or her discretion, pursue any combination of the following remedies. The penalty provided in this section shall not be construed to be exclusive but is intended to be supplementary and in addition to any other remedy provided by law or at equity. Any person who repeatedly violates the same provision or provisions of these regulations shall be subject to injunctive relief in addition to the remedies provided for herein.

2.15.1 Injunctive Relief - Injunctive or other appropriate relief in circuit court restraining the violation, requiring compliance with District regulations and recovering the District's cost in remediating any damage caused by the violation.

2.15.2 Civil Penalty - Any person or Owner who violates or facilitates the violation of any provision of these regulations shall be subject to payment of a civil penalty as determined by the Circuit Court of Boone County, Missouri, in a sum not to exceed \$300.00 per day for each day's violation of any such regulation. Every separate violation of these regulations shall be considered subject to a separate penalty and each day's violation of each such regulation shall subject the violator to a cumulative penalty.

2.15.3 Costs and Expense of Violation and Remedy are Responsibility of Violator - In addition to any other remedy available to the District authorized under these regulations, any person violating any of the provisions of these regulations in accordance with their terms shall be liable to the District for any expense, loss, or damage occasioned to the District by reason of such violation. As an alternative to an enforcement action, the District may specially invoice or add as a special charge to a customer account the costs and expenses incurred by the District to respond to and repair or remedy defects or damages to property or equipment owned or otherwise maintained by the District resulting from any violation of these regulations.
(Revised 12/18/07)

2.16 Failure to Remedy Violation - The District is authorized to do any combination of the following if any person shall fail to remedy a violation after notice of the violation: revoke any application for service or construction permit granted by the District; discontinue sanitary sewer service to that person; use District or contract forces to remedy the violation and charge the costs of the remedy to the person in violation.

2.17 Operational Inspections and Monitoring - The following provisions shall be applicable to operational inspections and monitoring of facilities subject to these regulations:

2.17.1 Residential and Commercial Users - The District is duly authorized to inspect and approve the installation of building laterals and their connection to the public sanitary sewer system, and to inspect such wastewater as may be discharged therefrom.

2.17.1.1 Access to Systems - The District's duly authorized employees bearing proper credentials and identification shall be permitted to enter all properties for the purposes of inspection, observation, measurement, sampling, and testing in accordance with the provisions of this regulation. The District's representatives shall have no authority to inquire into any processes including metallurgical, chemical, oil, refining, ceramic, paper, or other industries beyond that point having a direct bearing on the kind and source of discharge to the sanitary sewers or waterways or facilities for wastewater treatment.

2.17.1.2 Access to Easement - The District's duly authorized employees bearing proper credentials and identification shall be permitted to enter all private properties through which the District holds an easement for the purposes of inspection, observation, measurement, sampling, repair, and maintenance of any portion of the District facilities lying within said easement.

2.17.2 Industrial Users - Industrial users of the District's wastewater treatment works shall be subject to the following:

2.17.2.1 Certification Statement - All wastewater discharge permit applications and user reports must be signed by an authorized representative of the user and contain the following certification statement: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

2.17.2.2 Preliminary Treatment Facilities - Where preliminary treatment facilities are provided for any waters or wastes, they shall be owned and maintained continuously in satisfactory and effective operation by the owner at his or her expense.

2.17.2.3 Accidental Discharges and Slug Control Plans - At least once every two (2) years, the District shall evaluate whether each significant industrial user needs an accidental discharge/slug control plan. A significant industrial user is a noncategorical industry with >25,000 GPD; >5% of dry weather hydraulic or organic capacity; categorical industry; or any industrial user designated by continuing authority to have a reasonable potential to adversely affect the wastewater treatment works' operation. The District may require any user to develop, submit for approval, and implement such a plan. Alternatively, the District may develop such a plan for any user. An accidental discharge/slug control plan shall address, at a minimum, the following:

- (1) Description of discharge practices, including nonroutine batch discharges;
- (2) Description of stored chemicals;
- (3) Procedures for immediately notifying the District of any accidental or slug discharge, as required by of this regulation; and

- (4) Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants, including solvents, and measures and equipment for emergency response.

2.17.2.4 Reporting Accidental and/or Slug Discharges - The following shall be applicable to accidental and/or slug discharges:

2.17.2.4.1 Immediate Notification - In the case of any discharge, including, but not limited to, accidental discharges, discharges of a nonroutine, episodic nature, a noncustomary batch discharge, or a slug load, that may cause potential problems for the wastewater treatment works, the user shall immediately telephone and notify the District of the incident. This notification shall include the location of the discharge, type of waste, concentration and volume, if known, and corrective actions taken by the user.

2.17.2.4.2 Written Report - Within five (5) days following such discharge, the user shall, unless waived by the District, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the user to prevent similar future occurrences. Such notification shall not relieve the user of any expense, loss, damage, or other liability that may be incurred as a result of damage to the wastewater treatment works, natural resources, or any other damage to person or property; nor shall such notification relieve the user of any penalties or other liability that may be imposed pursuant to this regulation.

2.17.2.4.3 Posted Notice - A notice shall be permanently posted on the user's bulletin board or other prominent place advising employees who to call in the event of an accidental or slug discharge. Employers shall ensure that all employees who may cause such a discharge to occur are advised of the emergency notification procedure.

2.18 Accounts and Billing - The following regulations shall be applicable to customer accounts and billing:

2.18.1 Liability For Payment of Accounts and Applications for Service- The liability for payment of any user charges, connection fees, or other charges levied by the sewer district shall be against the owner or owners of real property which is connected to District sanitary sewers made available for collection and treatment of waste water generated on the property and such property is subject to a statutory lien for payment as provided in section 204.455, RSMo. The District may permit the establishment of customer accounts by tenants, lessees and other persons who occupy or use property which is connected to District sanitary sewers with the express or implied consent of the property owner(s), but the establishment of such accounts shall not relieve the property owner(s) from financial responsibility for payment of all such user charges, connection fees, or other charges levied by the sewer district, nor otherwise affect the discharge rights to assert a lien against the property served under section 204.455, RSMo. Customers shall apply for sewer service by submitting their name and

address, the kind of service requested, and the location to be served. No customer shall be refused service due to race, sex, creed, national origin, marital status, age, number of dependents, source of income, or place of residence in the service area.

(Revised 2/17/04)

2.18.2 Billing & Payment - The manner of furnishing the statement shall be as determined by the Board, provided each customer is billed in a reasonable, predictable manner. The District may divide the service area into sections, and/or the customers into various classes for the purpose of rendering statements. Such sections or classes may be changed from time to time to meet the operating requirements of the District. Such sections or classes are for the sole purpose of establishing a billing rotation and shall have no affect on the amount or rate of billing.

2.18.2.1 Billing Period - The District shall render a bill once during each billing period to every customer in accordance with the applicable rate schedule. A billing period covers thirty (30) days of service. Each customer is billed for thirty (30) days of service in advance. When bills are rendered for a period of less than a complete billing period due to the connection or termination of service, the billing shall be for the proportionate part of the charge.

(Revised 4-19-07)

2.18.2.2 Due and Payable - All service bills shall be due and payable in full ten (10) days from the date of the bill, after which they shall be subject to late charges. If the last day for remittance falls upon a weekend or holiday, or any other day when the offices regularly used for the payment of customer bills, are not open to the general public, the final payment date shall be extended through to the close of the next business day. The date of payment for remittance through the mail shall be the date on which the department receives the remittance.

(Revised 4-19-07)

2.18.2.3 Late Charge - The District shall assess a two percent (2%) late charge upon the bill of a customer for the reason that any balance due and owing upon the bill remains outstanding beyond the ten (10) day period of time established for payment.

(Revised 4-19-07)

2.18.2.4 Contents of Statement - The statement shall contain the number of days of service, billing date, due date, previous balance, current amount due, total due, date delinquent, address and phone number to call for information. Billing or clerical errors or omissions contained on a statement shall not serve as a defense to late payment charges of the actual account balance when due to the extent of amounts actually due, nor a defense to the costs and expenses chargeable for delinquent accounts and collection thereof resulting from nonpayment in whole or in part of the actual account balance due and not paid.

(Revised 4-19-07)

2.18.2.5 Delinquent Accounts - A delinquent account is a bill remaining unpaid by a customer at least twenty (20) days from rendition of the bill by the District. The District is hereby authorized to establish an administrative procedure to handle delinquent accounts. Collections of delinquent payments may be pursued through collection agencies and in the courts of jurisdiction and may include for collection the amount of the delinquent payments, service charges and collection costs, court costs, reasonable attorney's fees, and all

other expenses incurred regarding the collection of the delinquent account. Any account remaining unpaid after six (6) months shall be subject to Section 204.455 RSMo relating to liens being placed upon property where services were provided. (Revised 4-19-07)

2.18.2.6 Termination of Service - Whenever a customer shall order services terminated or otherwise cease to be a customer, all amounts owed by the customer to the District shall immediately become due. Bills for accounts to which services have been terminated or discontinued for a period of thirty (30) days shall be considered delinquent thirty (30) days after the final billing date. Should the account remain outstanding for a period of sixty (60) days, the account will be submitted to a collection agency or attorney for collection as determined under District administrative procedures. All costs, fees and expenses chargeable for delinquent accounts as specified in section 2.18.2.5. shall be applicable to the debt owed under the delinquent account. (Revised 4-19-07)

2.18.3 Temporary Interruptions of Service - The District reserves the right to discontinue sanitary services in its mains at any time, without notice, for making repairs, extensions, or alterations to the wastewater treatment works.

2.18.3.1 Notification of Customers - Whenever service is interrupted for repairs, all customers affected by such interruptions will be notified in advance if it is possible to do so. Every effort will be made to minimize the interruption and temporary methods of disposing of bulk sewage will be provided for when possible.

2.18.3.2 Refunds - No refunds of charges for sanitary sewer service will be made for interruption of service unless the interruption is in effect for a continuous period in excess of forty-eight (48) hours without disposal by the District.

2.19 Disconnection - The following provisions shall be applicable to disconnections of service:

2.19.1 Reasons for Disconnection of Service - The District shall have the right to discontinue sanitary sewer service to the customer for the following reasons. Discontinuance of sanitary sewer service to a premise for any reason shall not prevent the District from pursuing any lawful remedy for the collection of monies due from the Customer, and the District shall have the right to include court costs, applicable service charge(s), disconnect and/or reconnect charges, collection charges and reasonable attorney's fees for collection.

2.19.1.1 Non-payment - Service may be discontinued for: nonpayment of a delinquent account; failure to comply with the terms and conditions of a settlement agreement relating to a current or prior sanitary sewer account; failure to inform the District of their intent to terminate sanitary sewer services; or for failure to respond to a delinquent notice.

2.19.1.2 Tampering or Vandalism - No person, except authorized employees of the District, shall connect to the service lines without written authorization. In the event the District shall discover evidence of tampering with lines used for sewage distribution, or other such line of the sanitary sewer having the probable effect of rendering actual meter readings inaccurate, or to receive the service of the sanitary sewer without proper payments, sanitary sewer service may be discontinued.

2.19.1.3 Violation of Health Regulation and/or Unsafe Conditions - Service may be disconnected upon request from health department because of unsafe condition of structure or dwelling and/or non-compliance with sanitary sewer use regulations.

2.19.2 Procedures for Disconnection of Service - Prior to any service disconnection for any of the reasons listed in section 2.19.1.1-3, the District shall give five (5) working days' written notice of such intent by mail to the customer at their billing address. Service of notice is complete upon mailing. The District shall maintain an accurate record of the date of mailing. Such notice shall give a telephone number and address at which such disconnection may be contested. The general manager is hereby authorized to promulgate rules and regulations to establish an administrative procedure to handle such contests. The District may disconnect service between the hours of 8:00 a.m. and 4:00 p.m. on the date specified on the disconnection notice, or within a reasonable time thereafter. Service shall not be disconnected on a day when the offices of the District are not available to the public for the purpose of reconnecting discontinued service.

2.19.2.1 Notice of Disconnection - A Disconnection Notice shall contain the following: name and address of the customer; clear and concise statement of the reason for the proposed disconnection; cost of reconnection; date on or after which service shall be discontinued unless action is taken by the customer; terms under which disconnection may be avoided by the customer; and the telephone number where inquiry/complaint may be made.

2.19.2.2 Reasonable Effort to Contact - Immediately preceding the disconnection of service, the employee of the District designated to perform such function shall make a reasonable effort to contact and identify her/himself to the customer or responsible person then upon the premises stating action taken, reason for action, and phone numbers where inquiries may be made.

2.19.2.3 Postponement Due to Medical Circumstances - Notwithstanding any other provisions of this section, the District may postpone the disconnection of sanitary sewer service to a residential customer for a time not in excess of twenty-one (21) days if the disconnection will aggravate an existent medical emergency of the customer, a member of his/her family or other permanent resident of the premises where service is rendered.

2.19.2.4 Customer Dispute - If the District is advised, prior to the date of disconnection that any portion of bill is in dispute, the District shall record the date, place and time the complaint was made, and enter into the resolution process with the customer. The complaint may be initiated in person, by phone, or in writing. The District, in attempting to resolve the dispute in a mutually satisfactory manner, may employ those methods set forth by the management in the customer complaints process.

2.19.2.5 Failure to Pay Undisputed Amount - When a complaint is made, the customer shall make payment of the nondisputed amount; if customer fails to make payment of the nondisputed amount within three (3) working days from the date of registering the complaint, the customer shall waive their right to continuance of service and disconnection of service may proceed.

2.19.2.6 Failure to Negotiate - Failure of the customer to enter into negotiation with the District to resolve a dispute shall constitute a waiver of the customer's right to continuance of service and the District may then proceed to disconnect service as provided.

2.19.3 Disconnect/Reconnect Charge - A fee equal to the actual costs of the District, to a minimum of three hundred dollars (\$300.00), shall be charged to all accounts when it is necessary to utilize District forces to physically disconnect sanitary sewer service. Reconnection charges shall also be levied against the affected account on the basis of the actual costs of reconnection, to a minimum of three hundred dollars (\$300.00). Total fees to disconnect and reconnect service will be a minimum of six hundred dollars (\$600.00).

2.20 Reconnection/Restoration of Service - Upon the customer's request, the District shall restore service promptly if the cause for disconnection of service has been eliminated, applicable restoration charges paid and, if required, satisfactory credit arrangements have been made.

2.21 Resale of Sanitary Sewer Services - Should the resale of sanitary sewer service become necessary, the following regulations apply.

2.21.1 Resale at a Profit Prohibited - No customer shall sell at a profit, or offer for sale at a profit any sanitary sewer service purchased for their sole use from the District unless authorized by the District.

2.21.2 Authorization Required - Any customer wishing to resell a sanitary sewer service, shall do so only after having first obtained authorization from the District.

2.21.3 Evidence of Compliance - Any customer reselling sanitary sewer service, regardless of whether the sanitary sewer service so resold is metered or not, shall from time to time as determined by the District, furnish evidence that such resale is in compliance with all rules relating to such.

2.21.4 Submeters May be Required - Any customer wishing to resell sanitary sewer service may be required, as determined by the District, to install submeters where required and maintain records at such customer's expense, for the purpose of determining compliance with this section.

2.22 Interpretation and Severability - The regulations enacted hereunder are intended to be supplementary to all of the provisions or remedies authorized or prescribed by law, rule or regulation enacted thereunder. The invalidity of any particular regulation enacted herein shall not affect the validity of any other provision and all regulations hereunder shall be construed as consistently and harmoniously as possible with each other and other applicable provisions of law. In the event these regulations conflict with another law, rule or regulation, the law, rule or regulation imposed by a higher governmental authority shall be applicable in cases of preemption, but otherwise the law, rule or regulation which affords the greater protection to the public health or safety shall prevail. These regulations also shall be liberally construed to

the fullest extent permitted by law to effectuate the broad remedial purposes for which they are intended.

2.23 Variances - The Board may grant a variance from the strict application of the regulations adopted in this chapter upon application if it finds after public hearing and upon competent and substantial evidence that the applicant meets the criteria for grant of a variance required by these regulations. No variance from any requirement contained within chapter two of these regulations shall be granted unless the Board finds: (a) the applicant will incur unreasonable and unnecessary hardship if a variance is not granted and the variance is not sought primarily to avoid financial expense in complying with the requirements of these regulations (b) grant of a variance will not endanger the health, safety or welfare of the public, and (c) grant of a variance will not hinder, thwart or circumvent the general intent or any specific purpose of these regulations. All applications for variances shall be filed with the General Manager of the District and after review thereof the General Manager shall make a recommendation to the Board to grant or deny the application and state the reasons for his recommendation. The applicant may appeal any decision of the Board as provided by law.

2.24 Effective Date - This regulation shall be in full force and effect from the 15th day of September 1998.