

**City of Rapid City
Water Rate Analysis
Revenue Requirement Summary
Exhibit 1**

	2023	2024	2025	2026	2027	2028	2029
Revenue							
Rate Revenues	\$25,527,343	\$25,782,616	\$26,040,442	\$26,300,847	\$26,563,855	\$26,829,494	\$26,963,641
Non-Operating Revenues	544,559	503,437	512,417	531,061	541,257	538,609	541,594
Total Revenues	\$26,071,902	\$26,286,053	\$26,552,859	\$26,831,907	\$27,105,112	\$27,368,103	\$27,505,235
Expenses							
Water Production	\$3,405,050	\$4,468,651	\$4,867,321	\$5,061,636	\$5,264,092	\$5,550,765	\$5,751,934
Water Distribution	2,673,816	3,196,619	3,517,651	3,659,798	3,808,119	4,024,839	4,168,123
Water Administration	569,590	562,362	638,869	665,595	693,516	743,200	770,500
Water Billing / Services	2,559,207	3,466,458	3,807,847	3,962,275	4,122,485	4,353,649	4,506,317
Total O&M Expenses	\$9,207,663	\$11,694,091	\$12,831,688	\$13,349,305	\$13,888,212	\$14,672,453	\$15,196,874
Net Annual Debt Service	\$3,908,471	\$3,909,272	\$4,429,260	\$4,929,782	\$9,187,908	\$12,759,386	\$16,363,056
Rate Funded Capital	\$12,950,000	\$8,900,000	\$9,790,000	\$10,181,600	\$10,588,864	\$11,012,419	\$11,452,915
Transfer To / (From) Reserves	\$5,768	\$4,360,952	\$4,720,403	\$6,818,051	\$5,500,607	\$5,027,679	\$5,012,369
Total Revenue Requirement	\$26,071,902	\$28,864,314	\$32,021,352	\$35,537,488	\$39,433,397	\$43,747,777	\$48,309,329
Balance/(Deficiency) of Funds	\$0	(\$2,578,262)	(\$5,468,493)	(\$8,705,580)	(\$12,328,285)	(\$16,379,674)	(\$20,804,094)
Bal./(Def.) as a % of Rate Rev.	0.0%	10.0%	21.0%	33.1%	46.4%	61.1%	77.2%
Proposed Rate Adjustment	0.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Add'l Revenue from Adj.	\$0	\$2,578,262	\$5,468,493	\$8,705,580	\$12,328,285	\$16,379,674	\$20,804,094
Total Bal./(Def.) of Funds	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Additional Rate Increase Needed	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Avg Monthly Res Bill (5/8" Meter + 7.5 CCF)	\$46.66	\$51.32	\$56.45	\$62.10	\$68.31	\$75.14	\$82.65
Total Ending Balance	\$19,394,674	\$14,394,628	\$15,415,031	\$18,033,082	\$17,433,689	\$17,561,368	\$18,128,737

City of Rapid City
Water Rate Analysis
Exhibit 2
Escalation Factors

	2023	2024	2025	2026	2027	2028	2029
Revenues							
Customer Growth	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%
Flat	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Miscellaneous Revenues	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Expenses							
Labor	Budgeted	Budgeted	17.0%	4.0%	4.0%	8.5%	3.5%
Professional Services	Budgeted	Budgeted	17.0%	4.0%	4.0%	8.5%	3.5%
Benefits - Medical	Budgeted	Budgeted	12.5%	8.0%	8.0%	7.0%	7.0%
Benefits - Other	Budgeted	Budgeted	17.0%	4.0%	4.0%	8.5%	3.5%
Materials & Supplies	Budgeted	Budgeted	4.5%	3.5%	3.5%	3.0%	3.0%
Equipment	Budgeted	Budgeted	4.0%	4.0%	4.0%	4.0%	4.0%
Miscellaneous	Budgeted	Budgeted	3.0%	3.0%	3.0%	3.0%	3.0%
Utilities	Budgeted	Budgeted	4.0%	4.0%	4.0%	4.0%	4.0%
Flat	Budgeted	Budgeted	0.0%	0.0%	0.0%	0.0%	0.0%
Insurance	Budgeted	Budgeted	3.5%	3.5%	3.5%	3.5%	3.5%
Interest	0.7%	0.8%	1.0%	1.0%	1.0%	1.0%	1.0%
New Debt Service							
Low Interest Loans							
Term in Years	20	20	20	20	20	20	20
Rate	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Revenue Bond							
Term in Years	20	20	20	20	20	20	20
Rate	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%

City of Rapid City
Water Rate Analysis
Exhibit 3
Revenue Requirement

	<i>Budget</i>		<i>Projected</i>					<i>Notes</i>
	2023	2024	2025	2026	2027	2028	2029	
Revenues								
Rate Revenues								
Single Family Residential	\$11,633,749	\$11,750,087	\$11,867,588	\$11,986,264	\$12,106,126	\$12,227,187	\$12,288,323	As Customer Growth
Multi-Family Residential	927,654	936,930	946,300	955,763	965,320	974,973	979,848	As Customer Growth
Commercial / Industrial	8,663,463	8,750,097	8,837,598	8,925,974	9,015,234	9,105,386	9,150,913	As Customer Growth
Irrigation	4,218,529	4,260,714	4,303,321	4,346,354	4,389,818	4,433,716	4,455,885	As Customer Growth
Raw Water	83,948	84,788	85,636	86,492	87,357	88,230	88,672	As Customer Growth
Total Rate Revenues	\$25,527,343	\$25,782,616	\$26,040,442	\$26,300,847	\$26,563,855	\$26,829,494	\$26,963,641	
Non-Operating Revenues								
Interest	\$157,462	\$112,469	\$117,539	\$132,234	\$138,442	\$131,766	\$130,683	Calc'd on Reserve Balances
Single Family Residential - Enviro. Fee	0	0	0	0	0	0	0	As Customer Growth
Multi-Family Residential - Enviro. Fee	0	0	0	0	0	0	0	As Customer Growth
Commercial / Industrial - Enviro. Fee	0	0	0	0	0	0	0	As Customer Growth
Hydrant Daily Charge	11,930	12,049	12,170	12,291	12,414	12,539	12,664	As Miscellaneous Revenues
Hydrant Meter Move Charge	1,540	1,555	1,571	1,587	1,603	1,619	1,635	As Miscellaneous Revenues
Inactive Charge	8,318	8,401	8,485	8,570	8,655	8,742	8,829	As Miscellaneous Revenues
Misc Charges	4,749	4,796	4,844	4,892	4,941	4,991	5,041	As Miscellaneous Revenues
Move In Charge	96,307	97,270	98,243	99,225	100,217	101,220	102,232	As Miscellaneous Revenues
New Remote Charge	5,701	5,758	5,816	5,874	5,932	5,992	6,052	As Miscellaneous Revenues
No Show Charge	778	786	794	802	810	818	826	As Miscellaneous Revenues
Repair Charge	5,404	5,458	5,512	5,567	5,623	5,679	5,736	As Miscellaneous Revenues
Return Check Fee	3,650	3,687	3,723	3,761	3,798	3,836	3,875	As Miscellaneous Revenues
Service Charge Fee	122,106	123,327	124,560	125,806	127,064	128,335	129,618	As Miscellaneous Revenues
Late Fee	102,098	103,119	104,150	105,192	106,244	107,306	108,379	As Miscellaneous Revenues
Frozen Meter	24,168	24,409	24,653	24,900	25,149	25,400	25,654	As Miscellaneous Revenues
After hours charge	350	354	357	361	364	368	372	As Miscellaneous Revenues
Total Non-Operating Revenues	\$544,559	\$503,437	\$512,417	\$531,061	\$541,257	\$538,609	\$541,594	
Total Revenues	\$26,071,902	\$26,286,053	\$26,552,859	\$26,831,907	\$27,105,112	\$27,368,103	\$27,505,235	

	Budget		Projected					Notes
	2023	2024	2025	2026	2027	2028	2029	
Water Production								
Salary & Wages	\$983,368	\$992,197	\$1,160,870	\$1,207,305	\$1,255,597	\$1,362,323	\$1,410,005	As Labor
Overtime Wages	40,000	40,000	46,800	48,672	50,619	54,921	56,844	As Labor
Temporary Wages	25,000	94,000	109,980	114,379	118,954	129,065	133,583	As Labor
Social Security	64,999	61,516	71,974	74,853	77,847	84,464	87,420	As Benefits - Other
Medicare	15,202	14,387	16,185	17,480	18,878	20,200	21,614	As Benefits - Medical
Retirement	61,402	59,532	69,652	72,438	75,336	81,739	84,600	As Benefits - Other
Section 125 Administra	114	57	59	60	62	64	66	As Miscellaneous
Workmens Comp	11,078	14,223	16,641	17,307	17,999	19,529	20,212	As Benefits - Other
Group Health Insurance	165,244	173,394	195,068	210,674	227,528	243,455	260,496	As Benefits - Medical
Group Life Insurance	633	705	825	858	892	968	1,002	As Benefits - Other
Unemployment Insurance	1,425	1,125	1,316	1,369	1,424	1,545	1,599	As Benefits - Other
General & Auto Liabili	32,024	33,923	35,110	36,339	37,611	38,927	40,290	As Insurance
Other Insurance	144,311	159,649	165,237	171,020	177,006	183,201	189,613	As Insurance
Other Professional Ser	105,000	256,000	299,520	311,501	323,961	351,498	363,800	As Professional Services
Interdepartmental Char	42,804	42,804	44,730	46,296	47,916	49,354	50,834	As Materials & Supplies
Lease/Purchases	800	850	876	902	929	957	985	As Miscellaneous
Repair-Roll Stock	5,000	5,500	5,748	5,949	6,157	6,342	6,532	As Materials & Supplies
Repair-Structures	15,000	115,000	120,175	124,381	128,734	132,596	136,574	As Materials & Supplies
Repair-Equipment	33,344	350,000	365,750	378,551	391,801	403,555	415,661	As Materials & Supplies
Repair-Streets/Curbs/S	1,000	150,000	156,750	162,236	167,915	172,952	178,141	As Materials & Supplies
Repair-Water & Sewer	1,000	1,500	1,568	1,622	1,679	1,730	1,781	As Materials & Supplies
Repair-Electrical	40,000	150,000	156,750	162,236	167,915	172,952	178,141	As Materials & Supplies
Miscellaneous	2,500	2,500	2,575	2,652	2,732	2,814	2,898	As Miscellaneous
Office Supplies	3,000	3,000	3,135	3,245	3,358	3,459	3,563	As Materials & Supplies
Gasoline Oil Fuel	21,125	25,000	26,000	27,040	28,122	29,246	30,416	As Utilities
Clothing Food	4,000	6,000	6,270	6,489	6,717	6,918	7,126	As Materials & Supplies
Safety Supplies	1,500	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Janitor & Chemical Sup	320,000	335,000	350,075	362,328	375,009	386,259	397,847	As Materials & Supplies
Minor Tools	14,000	35,000	36,575	37,855	39,180	40,355	41,566	As Materials & Supplies
Agricultural Supply	6,000	1,000	1,045	1,082	1,119	1,153	1,188	As Materials & Supplies
Tires	2,000	4,000	4,180	4,326	4,478	4,612	4,750	As Materials & Supplies
Misc Supplies & Materi	64,000	70,000	73,150	75,710	78,360	80,711	83,132	As Materials & Supplies
Travel & Training	25,000	25,000	26,125	27,039	27,986	28,825	29,690	As Materials & Supplies
Telephone-Local	18,000	18,000	18,720	19,469	20,248	21,057	21,900	As Utilities
Natural Gas	25,815	38,556	40,098	41,702	43,370	45,105	46,909	As Utilities
Electricity	979,662	957,603	995,907	1,035,744	1,077,173	1,120,260	1,165,071	As Utilities
Water	37,000	29,723	30,912	32,148	33,434	34,772	36,162	As Utilities
PropaneHFuelFOil	0	200	208	216	225	234	243	As Utilities
Drainage Fees	4,500	4,507	4,688	4,875	5,070	5,273	5,484	As Utilities
Dues	3,200	3,200	3,344	3,461	3,582	3,690	3,800	As Materials & Supplies
Computers	6,000	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Software	4,000	4,000	4,180	4,326	4,478	4,612	4,750	As Materials & Supplies
Software Maintenance Contracts	10,000	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Machinery & Automated	65,000	165,000	172,425	178,460	184,706	190,247	195,955	As Materials & Supplies
Total Water Production	\$3,405,050	\$4,468,651	\$4,867,321	\$5,061,636	\$5,264,092	\$5,550,765	\$5,751,934	

	<i>Budget</i>		<i>Projected</i>					<i>Notes</i>
	2023	2024	2025	2026	2027	2028	2029	
Water Distribution								
Salary & Wages	\$1,041,436	\$1,034,205	\$1,210,020	\$1,258,420	\$1,308,757	\$1,420,002	\$1,469,702	As Labor
Overtime Wages	40,000	45,000	52,650	54,756	56,946	61,787	63,949	As Labor
Temporary Wages	16,000	16,000	18,720	19,469	20,248	21,969	22,737	As Labor
Social Security	68,041	59,132	69,185	71,952	74,830	81,191	84,032	As Benefits - Other
Medicare	15,913	13,829	15,558	16,803	18,147	19,417	20,776	As Benefits - Medical
Retirement	62,486	57,225	66,953	69,631	72,416	78,572	81,322	As Benefits - Other
Section 125 Administra	103	57	59	60	62	64	66	As Miscellaneous
Workmens Comp	13,493	14,223	16,641	17,307	17,999	19,529	20,212	As Benefits - Other
Group Health Insurance	202,716	202,255	227,537	245,739	265,399	283,977	303,855	As Benefits - Medical
Group Life Insurance	684	728	754	780	807	835	865	As Insurance
Unemployment Insurance	1,650	1,500	1,553	1,607	1,663	1,721	1,782	As Insurance
General & Auto Liabili	20,143	22,955	23,759	24,590	25,451	26,342	27,264	As Insurance
Other Insurance	13,374	21,742	22,503	23,290	24,105	24,949	25,822	As Insurance
Consultant Services	25,000	25,000	29,250	30,420	31,637	34,326	35,527	As Professional Services
Other Professional Ser	37,000	37,000	43,290	45,022	46,822	50,802	52,580	As Professional Services
Interdepartmental Char	62,739	62,739	65,562	67,857	70,232	72,339	74,509	As Materials & Supplies
Machinery Rentals	1,000	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Repair-Roll Stock	40,000	50,000	52,250	54,079	55,972	57,651	59,380	As Materials & Supplies
Repair-Structures	50,000	50,000	52,250	54,079	55,972	57,651	59,380	As Materials & Supplies
Repair-Equipment	20,000	20,000	20,900	21,632	22,389	23,060	23,752	As Materials & Supplies
Repair-Streets/Curbs/S	200,000	220,000	229,900	237,947	246,275	253,663	261,273	As Materials & Supplies
Repair-Water & Sewer	200,000	200,000	209,000	216,315	223,886	230,603	237,521	As Materials & Supplies
Repair-Electrical	1,500	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Miscellaneous	1,000	3,500	3,605	3,713	3,825	3,939	4,057	As Miscellaneous
Office Supplies	6,000	6,000	6,270	6,489	6,717	6,918	7,126	As Materials & Supplies
Gasoline Oil Fuel	45,000	70,000	72,800	75,712	78,740	81,890	85,166	As Utilities
Clothing Food	8,000	15,000	15,675	16,224	16,791	17,295	17,814	As Materials & Supplies
Safety Supplies	1,000	2,000	2,090	2,163	2,239	2,306	2,375	As Materials & Supplies
Janitor & Chemical Sup	3,500	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Minor Tools	130,000	50,000	52,250	54,079	55,972	57,651	59,380	As Materials & Supplies
Tires	5,000	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Misc Supplies & Materi	63,000	63,000	65,835	68,139	70,524	72,640	74,819	As Materials & Supplies
Travel & Training	20,000	20,000	20,900	21,632	22,389	23,060	23,752	As Materials & Supplies
Telephone-Local	8,000	10,000	10,400	10,816	11,249	11,699	12,167	As Utilities
Natural Gas	2,953	4,298	4,470	4,649	4,835	5,028	5,229	As Utilities
Electricity	26,735	26,231	27,280	28,372	29,507	30,687	31,914	As Utilities
Water	2,000	0	0	0	0	0	0	As Utilities
Drainage Fees	1,000	0	0	0	0	0	0	As Utilities
Dues	350	500	523	541	560	577	594	As Materials & Supplies
Computers	8,000	8,000	8,360	8,653	8,955	9,224	9,501	As Materials & Supplies
Software	5,000	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Software Maintenance Contracts	5,000	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Office Equipment	4,000	4,000	4,180	4,326	4,478	4,612	4,750	As Materials & Supplies
Furniture & Minor Equipment	0	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Machinery & Automated	194,000	714,500	746,653	772,785	799,833	823,828	848,543	As Materials & Supplies
Refund or Reimbursemen	1,000	1,000	1,045	1,082	1,119	1,153	1,188	As Materials & Supplies
Total Water Distribution	\$2,673,816	\$3,196,619	\$3,517,651	\$3,659,798	\$3,808,119	\$4,024,839	\$4,168,123	

City of Rapid City
Water Rate Analysis
Exhibit 3
Revenue Requirement

	<i>Budget</i>		<i>Projected</i>					<i>Notes</i>
	2023	2024	2025	2026	2027	2028	2029	
Water Administration								
Salary & Wages	\$329,863	\$343,369	\$401,741	\$417,811	\$434,523	\$471,458	\$487,959	As Labor
Overtime Wages	500	500	585	608	633	687	711	As Labor
Social Security	20,483	17,796	20,822	21,655	22,521	24,435	25,290	As Benefits - Other
Medicare	4,790	4,162	4,682	5,057	5,461	5,844	6,253	As Benefits - Medical
Retirement	19,792	17,222	20,150	20,956	21,794	23,647	24,475	As Benefits - Other
Section 125 Administr	95	0	0	0	0	0	0	As Miscellaneous
Workmens Comp	155	139	162	169	175	190	197	As Benefits - Other
Group Health Insuranc	52,180	37,577	42,274	45,656	49,308	52,760	56,453	As Benefits - Medical
Group Life Insurance	331	145	150	155	160	166	172	As Insurance
Unemployment Insuranc	150	375	388	402	416	430	445	As Insurance
General & Auto Liabil	18,703	0	0	0	0	0	0	As Insurance
Other Professional Se	3,500	4,000	4,680	4,867	5,062	5,492	5,684	As Professional Services
Interdepartmental Cha	92,128	92,128	96,274	99,643	103,131	106,225	109,412	As Materials & Supplies
Repair-Roll Stock	500	500	523	541	560	577	594	As Materials & Supplies
Repair-Structures	0	0	0	0	0	0	0	As Materials & Supplies
Repair-Equipment	500	500	523	541	560	577	594	As Materials & Supplies
Repair-Electrical	1,170	0	0	0	0	0	0	As Materials & Supplies
Office Supplies	2,500	3,000	3,135	3,245	3,358	3,459	3,563	As Materials & Supplies
Gasoline Oil Fuel	0	2,000	2,080	2,163	2,250	2,340	2,433	As Utilities
Clothing Food	150	300	312	324	337	351	365	As Utilities
Safety Supplies	250	250	261	270	280	288	297	As Materials & Supplies
Janitor & Chemical Supplies	100	100	105	108	112	115	119	As Materials & Supplies
Misc Supplies & Mater	750	2,500	2,613	2,704	2,799	2,883	2,969	As Materials & Supplies
Travel & Training	10,000	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Telephone-Local	3,000	6,000	6,270	6,489	6,717	6,918	7,126	As Materials & Supplies
Dues	0	6,000	6,270	6,489	6,717	6,918	7,126	As Materials & Supplies
Subscriptions	4,500	300	314	324	336	346	356	As Materials & Supplies
Computers	1,000	4,000	4,180	4,326	4,478	4,612	4,750	As Materials & Supplies
Software	0	2,000	2,090	2,163	2,239	2,306	2,375	As Materials & Supplies
Software Maintenance Contracts	2,500	2,500	2,613	2,704	2,799	2,883	2,969	As Materials & Supplies
Office Equipment	0	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Total Water Administration	\$569,590	\$562,362	\$638,869	\$665,595	\$693,516	\$743,200	\$770,500	

	<i>Budget</i>		<i>Projected</i>					<i>Notes</i>
	2023	2024	2025	2026	2027	2028	2029	
Water Billing / Services								
Salary & Wages	\$654,194	\$877,455	\$1,026,622	\$1,067,687	\$1,110,395	\$1,204,778	\$1,246,946	As Labor
Overtime Wages	25,000	30,000	35,100	36,504	37,964	41,191	42,633	As Labor
FTO/Uniform/Tool/ClassIV Pay	80,000	0	0	0	0	0	0	As Labor
Temporary Wages	47,070	44,000	51,480	53,539	55,681	60,414	62,528	As Labor
Social Security	11,008	52,077	60,930	63,367	65,901	71,503	74,006	As Benefits - Other
Medicare	0	12,179	13,702	14,798	15,982	17,100	18,297	As Benefits - Medical
Retirement	40,752	50,397	58,964	61,323	63,776	69,197	71,618	As Benefits - Other
Section 125 Administra	250	114	133	139	144	157	162	As Benefits - Other
Workmens Comp	9,247	9,243	10,815	11,247	11,697	12,691	13,136	As Benefits - Other
Group Health Insurance	115,884	158,936	164,499	170,257	176,216	182,383	188,767	As Insurance
Group Life Insurance	590	629	651	673	697	721	747	As Insurance
Unemployment Insurance	975	975	1,009	1,044	1,081	1,119	1,158	As Insurance
General & Auto Liability	979	0	0	0	0	0	0	As Insurance
Other Professional Ser	33,000	300,000	351,000	365,040	379,642	411,911	426,328	As Professional Services
Interdepartmental Char	(352,647)	(352,647)	(352,647)	(352,647)	(352,647)	(352,647)	(352,647)	As Flat
Repair-Roll Stock	10,000	15,000	15,675	16,224	16,791	17,295	17,814	As Materials & Supplies
Repair-Equipment	9,000	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Repair-Electrical	500	1,000	1,045	1,082	1,119	1,153	1,188	As Materials & Supplies
Miscellaneous	500	2,000	2,060	2,122	2,185	2,251	2,319	As Miscellaneous
Office Supplies	200,000	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Gasoline Oil Fuel	28,031	35,000	36,400	37,856	39,370	40,945	42,583	As Utilities
Clothing Food	2,500	7,000	7,315	7,571	7,836	8,071	8,313	As Materials & Supplies
Safety Supplies	500	1,000	1,045	1,082	1,119	1,153	1,188	As Materials & Supplies
Janitor & Chemical Sup	500	2,000	2,090	2,163	2,239	2,306	2,375	As Materials & Supplies
Minor Tools	2,000	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Tires	2,000	8,000	8,360	8,653	8,955	9,224	9,501	As Materials & Supplies
Misc Supplies & Materi	1,323,474	1,800,000	1,881,000	1,946,835	2,014,974	2,075,423	2,137,686	As Materials & Supplies
Travel & Training	11,000	15,000	15,675	16,224	16,791	17,295	17,814	As Materials & Supplies
Telephone-Local	7,800	9,000	9,360	9,734	10,124	10,529	10,950	As Utilities
Dues	100	100	105	108	112	115	119	As Materials & Supplies
Computers	33,500	10,000	10,450	10,816	11,194	11,530	11,876	As Materials & Supplies
Software	1,500	3,000	3,135	3,245	3,358	3,459	3,563	As Materials & Supplies
Software Maintenance Contracts	27,500	35,000	36,575	37,855	39,180	40,355	41,566	As Materials & Supplies
Office Equipment	500	5,000	5,225	5,408	5,597	5,765	5,938	As Materials & Supplies
Machinery & Automated	72,000	60,000	62,700	64,895	67,166	69,181	71,256	As Materials & Supplies
Refund or Reimbursement	160,000	250,000	261,250	270,394	279,858	288,253	296,901	As Materials & Supplies
Total Water Billing / Services	\$2,559,207	\$3,466,458	\$3,807,847	\$3,962,275	\$4,122,485	\$4,353,649	\$4,506,317	
Preventative Maintenance Program	\$0	\$0	\$250,000	\$258,750	\$267,806	\$275,840	\$284,116	As Materials & Supplies
Total Operations & Maintenance	\$9,207,663	\$11,694,091	\$13,081,688	\$13,608,055	\$14,156,018	\$14,948,293	\$15,480,990	

City of Rapid City
Water Rate Analysis
Exhibit 3
Revenue Requirement

	<i>Budget</i>		<i>Projected</i>					<i>Notes</i>
	2023	2024	2025	2026	2027	2028	2029	
Debt Service								
Drinking Water 2	\$423,733	\$423,733	\$423,733	\$423,733	\$423,733	\$423,733	\$423,733	Debt Schedule
Drinking Water 3	110,594	110,595	110,595	110,595	110,595	110,595	110,595	Debt Schedule
2015 Revenue Bond	3,374,144	3,374,944	3,372,944	3,371,694	3,370,194	3,373,944	3,368,944	Debt Schedule
Assumed Loan Issuance	0	0	521,989	1,023,760	5,283,386	8,851,114	12,459,784	Calc @ 3% for 20 Yrs
New Revenue Bonds	0	0	0	0	0	0	0	Calc @ 5% for 20 Yrs
Total Debt Service	\$3,908,471	\$3,909,272	\$4,429,260	\$4,929,782	\$9,187,908	\$12,759,386	\$16,363,056	
<i>Less Connection Fees</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	
Net Annual Debt Service	\$3,908,471	\$3,909,272	\$4,429,260	\$4,929,782	\$9,187,908	\$12,759,386	\$16,363,056	
Rate Funded Capital	\$12,950,000	\$8,900,000	\$9,790,000	\$10,181,600	\$10,588,864	\$11,012,419	\$11,452,915	\$5,325,388 2021 Dep. Exp.
Transfer To / (From) Reserves								
To/(From) Operating Reserve	\$5,768	\$4,360,952	\$4,720,403	\$6,818,051	\$5,500,607	\$5,027,679	\$5,012,369	
To/(From) Capital Reserve	0	0	0	0	0	0	0	
To/(From) Membrane Replacement Reserve	0	0	0	0	0	0	0	
To/(From) Rate Stabilization Reserve	0	0	0	0	0	0	0	
Total Transfer To / (From) Reserves	\$5,768	\$4,360,952	\$4,720,403	\$6,818,051	\$5,500,607	\$5,027,679	\$5,012,369	
Total Revenue Requirement	\$26,071,902	\$28,864,314	\$32,021,352	\$35,537,488	\$39,433,397	\$43,747,777	\$48,309,329	
Bal./(Def.) of Funds	\$0	(\$2,578,262)	(\$5,468,493)	(\$8,705,580)	(\$12,328,285)	(\$16,379,674)	(\$20,804,094)	
Rate Adj. as a % of Rate Rev.	0.0%	10.0%	21.0%	33.1%	46.4%	61.1%	77.2%	
Proposed Rate Adjustment	0.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	
Add'l Revenue from Adj.	\$0	\$2,578,262	\$5,468,493	\$8,705,580	\$12,328,285	\$16,379,674	\$20,804,094	
Total Bal./(Def.) of Funds	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Additional Rate Increase Needed	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Debt Service Coverage Ratio (DSC)								
Before Rate Adjustment	4.31	3.73	3.04	2.68	1.41	0.97	0.73	
After Rate Adjustment	4.31	4.39	4.28	4.45	2.75	2.26	2.01	
Avg Monthly Res Bill (5/8" Meter + 7.5 CCF)	\$46.66							
After Proposed Rate Adjustment	\$46.66	\$51.32	\$56.45	\$62.10	\$68.31	\$75.14	\$82.65	
Monthly \$ Change		\$4.67	\$5.13	\$5.65	\$6.21	\$6.83	\$7.51	
Cumulative Change		\$4.67	\$9.80	\$15.44	\$21.65	\$28.48	\$36.00	

	<i>Budget</i>		<i>Projected</i>					<i>Notes</i>
	2023	2024	2025	2026	2027	2028	2029	
Reserve Funds								
Total Beginning Balance	\$30,700,000	\$19,394,674	\$14,394,628	\$15,415,031	\$18,033,082	\$17,433,689	\$17,561,368	
Operating Reserve								
Beginning Balance	\$1,387,456	\$1,762,123	\$1,971,213	\$2,050,529	\$2,133,099	\$2,252,483	\$2,332,752	<i>Target: 55 days of O&M</i>
Plus: Additions	5,768	4,360,952	4,720,403	6,818,051	5,500,607	5,027,679	5,012,369	
Less: Uses of Funds	0	0	0	0	0	0	0	
Ending Balance	\$1,393,224	\$6,123,075	\$6,691,617	\$8,868,580	\$7,633,705	\$7,280,161	\$7,345,121	
Capital Reserve								
Beginning Balance	\$26,759,810	\$14,796,463	\$9,272,521	\$9,863,860	\$12,010,770	\$10,860,290	\$10,451,842	
Plus: Additions	0	0	0	0	0	0	0	
Plus: Connection Fees	0	0	0	0	0	0	0	<i>As Customer Growth</i>
Less: Uses of Funds	(11,311,094)	(9,360,998)	(3,700,000)	(4,200,000)	(6,100,000)	(4,900,000)	(4,445,000)	
Ending Balance	\$15,448,716	\$5,435,465	\$5,572,521	\$5,663,860	\$5,910,770	\$5,960,290	\$6,006,842	
<i>Target: 1-year Annual Depreciation Expense</i>	<i>\$5,325,388</i>	<i>\$5,431,896</i>	<i>\$5,540,534</i>	<i>\$5,651,344</i>	<i>\$5,764,371</i>	<i>\$5,879,659</i>	<i>\$5,997,252</i>	<i>2.0% Growth</i>
Rate Stabilization Reserve								
Beginning Balance	\$2,552,734	\$2,836,088	\$3,150,893	\$3,500,643	\$3,889,214	\$4,320,917	\$4,776,773	<i>Target: 10 % of Rate Revenues</i>
Plus: Additons	0	0	0	0	0	0	0	
Less: Uses of Funds	0	0	0	0	0	0	0	
Ending Balance	\$2,552,734	\$2,836,088	\$3,150,893	\$3,500,643	\$3,889,214	\$4,320,917	\$4,776,773	
Membrane Replacement Reserve								
Beginning Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Plus: Additions	0	0	0	0	0	0	0	
Less: Uses of Funds	0	0	0	0	0	0	0	
Ending Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Ending Balance	\$19,394,674	\$14,394,628	\$15,415,031	\$18,033,082	\$17,433,689	\$17,561,368	\$18,128,737	

City of Rapid City
 Water Rate Analysis
 Exhibit 4
 Capital Improvement Plan

Inflation = 6.5%

	CIP #	Project #	2023	2024	2025	2026	2027	2028	2029	Notes
Water Replacement - 933										
12th Street Reconstruction - Fulton St. to Fairview St.	51324	2642	\$316,562	\$0	\$0	\$0	\$0	\$0	\$0	
12th Street Reconstruction -West Main St. to Fulton St.	50927	2499	45,117	0	0	0	0	0	0	
2020 Miscellaneous Operations Projects Design	51132	2540	2,817	0	0	0	0	0	0	
2021 Miscellaneous Operations Projects Design	51292	2753	264,000	0	0	0	0	0	0	
Adams St Water Main Const - West Blvd N-Allen Ave	50960	2530	624,397	0	0	0	0	0	0	
Airport Water Main Valve Bolt Replacement - Airport Road to Covington St.	51038		0	0	187,147	0	0	0	0	
Anamosa Street Bridge Replacement Over I-190	51344	2690	40,000	0	0	0	0	0	0	
Annual - USGS O&M Gaging	51279	Annual	89,322	95,128	101,311	107,896	114,910	0	0	
Annual - Water Rights Acquisition	50303	Annual	50,000	53,250	56,711	60,397	64,323	68,504	0	
Annual-Water System Surveying	51407	Annual	235,000	213,000	226,845	241,590	257,293	274,017	0	
Boulevard Addition Subdivision 9th and Clark Street Reconstruction - Fulton St. to F	51281		0	0	0	0	83,218	0	0	
Canyon Lake Area Reconstruction - 7th Ave, Cottonwood St and Minnekahta Dr	51098.2		0	667,755	0	0	0	0	0	
Canyon Lake Area Reconstruction - Elmhurst St	51098.1	2535	0	0	0	817,178	0	0	0	
Canyon Lake Area Water Reconstruction - Dover St, 9th Ave, Cottonwood Dr and 1	51098.3		10,000	1,464,375	0	0	0	0	0	
Canyon Lake District Streets Reconstruction Design and Master Plan Development	51098	2535	181,589	0	0	0	0	0	0	
City of Rapid City Arc Flash Analysis - 2021 Water Facilities	51318	2635	46,225	0	0	0	0	0	0	
City of Rapid City Water and Sewer Cost Study	51342	2687	137,328	0	0	0	0	0	0	
City Springs Road North Pinedale Booster Station Replacement	50449		0	0	567,113	0	3,280,489	0	0	
Citywide Sewer Master Plan Update and Recalibration	50819	2192	940	0	0	0	0	0	0	
Citywide Water Distribution SCADA Upgrades	51067	2218	191	0	0	0	0	0	0	
Citywide Water Masterplan Update and Model Recalibration	50817	2141	198,433	0	0	0	0	0	0	
Cityworks Software/Program Implemenation	51388		13,700	159,750	0	0	0	0	0	
Contingency - Water	0933-C		0	319,500	340,268	362,385	385,940	0	0	
Dakota Dr. Watermain Reconst, W. Main to CLD	50399	1894	0	0	0	0	0	1,446,812	0	
Dakota Pump, Inc. SCADA Professional Services - Water	51392	2750	75,000	0	0	0	0	0	0	
Drinking Water Compliance Assistance	51387		50,000	0	0	0	0	0	0	
Dyess Ave Reconstruction - Seger Dr to City Limits	51282	2630	162,722	0	0	0	0	0	0	
EAFB Meter Facility Reconstruction	51384	2733	415,904	1,512,296	0	0	0	0	0	
East Waterloo St. Reconstruction - LaCrosse to Van Buren	50919	2752	0	22,365	0	286,284	0	0	0	
Eglin Street Reconstruction - Luna Ave to E. North St.	51214		0	0	7,486	0	0	21,921	0	
Elk Vale Reservoir Water Level Investigation	51238	2511	5,077	0	0	0	0	0	0	
Elm Ave. Reconstruction North - Phase 5	50703		0	0	0	0	0	34,252	0	
Enchantment Road PRV CP and Repair	51261	2590	237,462	0	0	0	0	0	0	
Facility Miscellaneous Improvements Projects (Design)	51353		0	0	340,268	0	0	0	0	
Facility Miscellaneous Improvements Projects (Design).	51354		0	0	0	362,385	0	0	0	
Girl Scout Gallery Building Reconstruction	50341		0	0	0	0	643,233	0	0	
Hydrogeologist Professional Services	51412	2775	40,000	0	0	0	0	0	0	
Jackson Blvd DBDP Element 23-Mt View Rd South	50349		0	0	0	0	0	118,170	0	
Jane Drive Reconstruction - West End of Jane to Jackson BLVD	50880		0	0	0	0	38,594	0	0	
Kansas City Street Low Level Water Reconstruction - West St to West BLVD	51207		0	0	0	0	180,105	0	0	
Knecht and Skyline Tunnel Investigation and Remediation	51395		350,000	0	2,835,563	3,623,849	0	0	0	
La Crosse St Interchange Utility Improvements	51108	2318	33,495	0	0	0	0	0	0	
Legacy Subdivision Water Pressure Zone Change & PRV Install - Hanover Dr, Walter	51197		0	95,850	0	0	0	0	0	
Main St. Valve Replacement - 5th St to 2nd St	50705	2669	0	95,850	0	0	0	0	0	
Meade Street Water Reconstruction - 7th Street to 5th Street	51077	2679	0	839,220	0	0	0	0	0	
Miscellaneous Operations Projects Design (2024 Construction)	51293		0	101,175	0	0	0	0	0	
Mt Rushmore Rd & Promise Rd Intersection Utility Relocation	51373	2745	85,150	0	0	0	0	0	0	
Omaha and Lacrosse Street Intersection Utility Upgrades	51212	2488	108,228	0	0	0	0	0	0	
Operations Misc Projects 2020 Construction Pkg 1	51132.1	2605	6,804	0	0	0	0	0	0	
Operations Misc Projects 2020 Construction Pkg 3, Facility TYPE & Fencing	51132.4	2608	52,053	0	0	0	0	0	0	
Operations Misc Projects 2023 Construction Pkg 2	51292.2		293,000	897,795	0	0	0	0	0	
Operations Misc Projects 2023 Construction Pkg 3	51292.3		232,000	742,305	0	0	0	0	0	
Operations Misc Projects 2024 Construction Pkg 1	51293.1		0	0	147,449	0	0	0	0	
Operations Misc Projects 2024 Construction Pkg 2	51293.2		0	0	130,436	0	0	0	0	

City of Rapid City
 Water Rate Analysis
 Exhibit 4
 Capital Improvement Plan

Inflation = 6.5%

	CIP #	Project #	2023	2024	2025	2026	2027	2028	2029	Notes
Wal Operations Misc Projects 2024 Construction Pkg 3	51293.3		0							
Palo Verde Reservoir Replacement	50968	2109		266,250	0	0	0	0	0	
Parkridge Village Area Street Rehabilitation - Winner Cir, Crowns Ct, Gallery Ln, ar	51134		0	0	0	0	0	68,504	0	
Pinelawn Reservoir Construction	50451			0	396,979	0	0	0	0	
Portable Water Pump Procurement	51385	2734	605,000	0	0	0	0	0	0	
Racine Street Reconstruction - E. Anamosa St. to E. Waterloo St.	51349		0	0	0	0	64,323	0	0	
Rapid City Groundwater Supply Improvements	50805.1	2742.1	0	4,792,500	0	0	0	0	0	
Rapid City Groundwater Supply Improvements: Design and Construction Administ	50805	2742	700,000	532,500	0	0	0	0	0	
Rapid City SCADA, Alarms, and Surge Protection Project	51389	2758	175,000	0	0	0	0	0	0	
RC East Side Surface Water Treatment Facility	51396.1			0	538,757	0	0	0	0	
RC Mt. View Water Treatment and Maintenance Facility	51396.2			0	0	603,975	0	0	0	
Rapid City Surface Water Treatment Facility Evaluation	51396		750,000	0	0	0	0	0	0	
Robbinsdale Area Phase 6B Reconstruction - Parkview Drive and Elm Ave.	51232.B	2517	648	0	0	0	0	0	0	
Robbinsdale Area Phase 6D Water and Sewer Reconstruction - E. Fairmont Blvd.	51232.D	2519	220,000	0	0	0	0	0	0	
Robbinsdale Area Reconstruction and Utility Projects - Phase 6A-6D	51232	2515	10,454	0	0	0	0	0	0	
Robbinsdale Phase 6 Fairlane Dr Reconstruction	51232.C	2518	454,633	0	0	0	0	0	0	
Robbinsdale Reconstruction - E. Oakland St, Oakland St, Lynnwood St, and Grandv	50390.5-2		0	0	226,845	0	1,286,466	0	0	
Robbinsdale Reconstruction - E. Tallent Street and Willow Avenue	50390.5-1		53,000	0	661,253	0	0	0	0	
Robbinsdale Reconstruction Indiana, Ivy and Iowa	50389.4-1		0	0	0	0	128,647	0	0	
Robbinsdale Reconstruction Project - Cypress St, E Montana St, Maple Ave	50390.5-5		0	0	0	0	0	80,150	0	
Roof Replacements	50098	Annual	348,997	0	0	0	0	0	0	
San Marco Bridge Replacement	51194	2581	60,000	0	0	0	0	0	0	
Sheridan Lake Road Reconstruction - Canyon Lake Dr to West Main St.	50967	2270	25,000	0	0	0	0	0	0	
Signal Drive and Kellogg Place Street and Utility Reconstruction	51170	2670	1,942,525	0	0	0	0	0	0	
Signal Hills Reservoirs Transmission Main Replacement	50463		0	287,550	0	1,328,745	0	0	0	
Silverleaf Avenue Reconstruction - 4th St to South St	50837		0	85,200	0	652,293	0	0	0	
Sioux Ave and E Saint Charles Street - Street and Utilities Improvements	51365		94,000	1,107,600	0	0	0	0	0	
South Street Reconstruction - 12th Street to West Blvd	51358		0	186,375	0	0	0	0	0	
Southeast Area Trunk Sewer Reconstruction - Elm Ave to Prairie Ave	50829	2571	1,525,321	0	0	0	0	0	0	
Southwest & Terracita Zone Watermain Loop	50455		0	0	935,736	0	0	0	0	
Southwest Booster Station Reconstruction	51397		750,000	0	2,835,563	0	0	0	0	
Springbrook Acres Water Main & PRV Abandonment	51262	2643	2,301,267	0	0	0	0	0	0	
St Charles St Rehabilitation and Water Main Replacement	51409	2760	350,563	0	0	0	0	0	0	
St Charles Street and 11th Street Reconstruction - West Blvd to St. Charles St. Wes	50926		0	0	0	0	0	145,229	0	
St Cloud Street Reconstruction - 5th St to Highland	51036	2487	29,869	0	0	0	0	0	0	
St Joseph St Water Valve Repair-West Boulevard to 4th Street	50445.23C	2731	254,681	0	0	0	0	0	0	
St Patrick Street Reconstruction - Mt Rushmore Rd to 5th St	51126	2582	770,797	0	0	0	0	0	0	
Stormwater Pollution Prevention Plan BMP Retainer Contract	51398		50,000	0	0	0	0	0	0	
Sturgis Road Utilities Relocation and Extension - North of W Chicago St				31,950	0	253,669	0	0	0	
Sunburst Drive Reconstruction	51253	2532	1,210,711	0	0	0	0	0	0	
Sunrise Heights Area Reconstruction - Wentworth Dr	51039		0	0	0	0	87,222	0	0	
Terracita Reservoir Number 2 Construction	50452		0	0	0	0	540,316	0	0	
Utility Maintenance Professional Services Agreement for Service Line and Locates	51357		150,000	79,875	0	0	0	0	0	
Water and Sewer Improvement Block 13 of Boulevard Addition	50927.1	2699	509,625	0	0	0	0	0	0	
Water Booster Station Electrical Distribution System Upgrades	51270		0	426,000	0	483,180	0	0	0	
Water Facility Technical Services	51368	2719	55,000	0	0	0	0	0	0	
Water Main Repl-Sitting Bull, Red Cld, Crazy Hrs	51074		0	268,380	0	1,217,613	0	0	0	
Water Production Evaluation: Disinfection Methods, Zebra Mussels, and Arsenic C	51291		300,000	0	0	0	0	0	0	
Well 5,6,8,10, and 11 Electrical Power Distribution Upgrades	51163		0	117,150	0	132,874	0	0	0	
Well 5 & 6 Pump Replacement and Electrical Upgrades	51305	2574 & 2640	270,000	0	0	0	0	0	0	
Well 6 Rehabilitation	51413	2777	0	532,500	0	0	0	0	0	
Well 8 Pump Replacement	51188	2718	636,186	0	0	0	0	0	0	
Well 10 and Well 11 Improvement Project	51362	2727	860,259	0	0	0	0	0	0	
Well 12 and Stoney Creek Booster Pump Station Upgrades Project	51381		0	0	0	0	0	411,026	0	
Well 12 Upgrades	51340	2684	704,965	0	0	0	0	0	0	
Well 12 VFD Upgrade Project	51372	2723	683,219	0	0	0	0	0	0	
Well 13 Test Pumping	51414	2778	100,000	0	0	0	0	0	0	
West Boulevard North Reconstruction - Van Buren St to Anamosa St	50879		0	0	0	0	70,756	0	0	
West Boulevard Reconstruction - St. Joseph St to Main St	51127		0	0	0	0	122,214	0	0	
West Main Reconstruction - Jackson BLVD, West Main, Cross Street	50858	1945	0	0	0	1,908,560	0	0	0	
West Street Pump Station Replacement	51210		0	0	0	0	771,880	548,035	0	
Wildwood Area Projects - Una Del Drive Reconstruction Project	50914	2505	1,846	0	0	0	0	0	0	
Wildwood Drive Reconstruction Phase 2 - Alpine Ct, Vanishing Trail Ct, and Alpine	51003	2506	1,061,086	0	0	0	0	0	0	
Wonderland Drive Reconstruction Phase 3 - Starlite Dr to Rosemary Ln	51070.3		0	0	0	0	83,620	0	0	
Total Water Replacement - 933			\$22,417,168	\$15,993,444	\$10,535,728	\$12,442,874	\$8,203,550	\$3,216,621	\$0	

City of Rapid City
 Water Rate Analysis
 Exhibit 4
 Capital Improvement Plan

Inflation = 6.5%

	CIP #	Project #	2023	2024	2025	2026	2027	2028	2029	Notes
Water Expansion - 934										
Anamosa St. Water Main	51256	2541	\$80,725	\$0	\$0	\$0	\$0	\$0	\$0	
Annual - Developer Water Oversize	50295	Annual	150,000	159,750	170,134	181,192	192,970	0	0	
Annual - Fire Hydrant Installation	50808	Annual	0	79,875	85,067	90,596	96,485	102,756	0	
Annual - Non Conforming Water Service Lines	50294	Annual	100,000	106,500	113,423	120,795	128,647	0	0	
Buffalo East LLC Water Oversize - Addison Ave.	51284		27,255	0	0	0	0	0	0	
Citywide Utility Masterplan Update and Model Recalibration	50820		0	0	0	392,584	0	0	0	
Citywide Water Masterplan Update and Model Recalibration	50817	2141	137,900	0	0	0	0	0	0	
Creek Drive Water Main Extension	51382	2716	86,539	0	0	0	0	0	0	
FOX LLC Water Oversize - Moon Ridge	50295.22A		69,075	0	0	0	0	0	0	
High Level Elk Vale Reservoir and Water Main Construction	50474		0	0	283,556	0	0	0	0	
Kateland Subdivision #2 Water Oversize - Brooke Street and Country Road	51345	DEV 1556	25,062	0	0	0	0	0	0	
Kateland Subdivision Phase 2 - Country Road Water Main Oversize	51386	DEV 1588	45,511	0	0	0	0	0	0	
Rapid City Groundwater Supply Improvements	50805.1	2742.1	0	7,987,500	0	0	0	0	0	
Rapid City Groundwater Supply Improvements: Design and Construction Administ	50805	2742	750,000	692,250	0	0	0	0	0	
Reservoir Site Selection	50661		0	0	170,134	0	192,970	0	0	
Selador Ranch Reservoir Construction	50289		0	0	482,046	0	0	0	0	
Shepherd Hills Water Booster Pump Station	51338	2682	400,403	5,857,500	0	0	0	0	0	
Southwest & Terracita Zone Watermain Loop	50455		0	0	935,736	0	0	0	0	
SSST LLC Water Oversize - Elk Crossing Phase 4	51156		29,425	0	0	0	0	0	0	
Sturgis Road Utilities Relocation and Extension - North of W Chicago St			0	149,100	0	1,691,129	0	0	0	
Tompkins St. and Clark St. Street Reconstruction - Fulton St. to Forrest Hills Dr. an	50797		0	60,705	0	495,259	0	0	0	
Wildwood Area Projects - Una Del Drive Reconstruction Project	50914	2505	3,693	0	0	0	0	0	0	
Wildwood Drive Reconstruction Phase 2 - Alpine Ct, Vanishing Trail Ct, and Alpine	51003	2506	688,338	0	0	0	0	0	0	
Wonderland Drive Reconstruction Phase 2 - Ponderosa Ct to Starlite Dr	51070.2		0	0	0	132,874	0	1,096,069	0	
Wonderland Drive Reconstruction Phase 3 - Starlite Dr to Rosemary Ln	51070.3		0	0	0	0	9,648	0	0	
Total Water Expansion - 934			\$2,593,926	\$15,093,180	\$2,240,094	\$3,104,431	\$620,720	\$1,198,826	\$0	
Bonds - 0932										
High Level Elk Vale Reservoir and Water Main Construction	50474		\$0	\$0	\$567,113	\$0	\$7,718,798	\$0	\$0	
Palo Verde Reservoir Replacement	50968	2109	0	532,500	0	8,153,660	0	0	0	
Pinelawn Reservoir Construction	50451		0	0	1,134,225	0	10,613,347	0	0	
Selador Ranch Reservoir Construction	50289		0	0	567,113	8,455,647	0	0	0	
RC East Side Surface Water Treatment Facility	51,396		0	0	7,400,818	41,664,196	44,372,369	47,256,572	0	
RC Mt. View Water Treatment and Maintenance Facility	51,396		0	0	0	7,851,673	0	21,715,874	69,382,216	
Total Capital Replcmnt. Projects			\$0	\$532,500	\$9,669,268	\$66,125,176	\$62,704,514	\$68,972,446	\$69,382,216	
Delayed Capital			\$0	(\$4,900,000)	(\$1,490,000)	(\$3,918,400)	(\$1,761,136)	(\$3,787,581)	(\$1,900,000)	
Future Unidentified Projects			\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Rapid City Groundwater Supply Improvements: Design and Construction Administration			\$0	\$0	\$0	\$0	\$0	\$0	\$0	
To Capital Reserves			\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Capital Improvement Projects			\$25,011,094	\$26,719,124	\$20,955,090	\$77,754,080	\$69,767,648	\$69,600,312	\$67,482,216	
Less: Outside Funding Sources										
Operating Reserve			\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Capital Reserve			11,311,094	9,360,998	3,700,000	4,200,000	6,100,000	4,900,000	4,445,000	
Membrane Replacement Reserve			0	0	0	0	0	0	0	
ARPA Funded			750,000	692,250	0	0	0	0	0	
Assumed Loan Issuance			0	7,765,876	7,465,090	63,372,480	53,078,784	53,687,893	51,584,301	
Assumed Bonding Projects			0	0	0	0	0	0	0	
New Revenue Bonds			0	0	0	0	0	0	0	
Total Outside Funding Sources			\$12,061,094	\$17,819,124	\$11,165,090	\$67,572,480	\$59,178,784	\$58,587,893	\$56,029,301	
Rate Funded Capital			\$12,950,000	\$8,900,000	\$9,790,000	\$10,181,600	\$10,588,864	\$11,012,419	\$11,452,915	

City of Rapid City
 Water Rate Analysis
 Existing Debt Service
 Exhibit 5

Fiscal Year	<i>Drinking Water 2</i>	<i>Drinking Water 3</i>	2015 Revenue Bond	Total Annual Debt Service
2023	\$423,733	\$110,594	\$3,374,144	\$3,908,471
2024	423,733	110,595	3,374,944	3,909,272
2025	423,733	110,595	3,372,944	3,907,272
2026	423,733	110,595	3,371,694	3,906,022
2027	423,733	110,595	3,370,194	3,904,522
2028	423,733	110,595	3,373,944	3,908,272
2029	423,733	110,595	3,368,944	3,903,272
2030	423,733	110,595	3,370,544	3,904,872
2031	823,983	110,585	3,368,544	4,303,112
2032	0	110,595	3,367,744	3,478,338
2033	0	110,495	3,368,144	3,478,638
2034	0	117,763	3,293,819	3,411,582
2035	0	0	3,366,944	3,366,944
2036	0	0	3,368,056	3,368,056
2037	0	0	3,367,056	3,367,056
2038	0	0	3,366,456	3,366,456
2039	0	0	3,367,813	3,367,813
2040	0	0	0	0
2041	0	0	0	0
2042	0	0	0	0
2043	0	0	0	0
2044	0	0	0	0
2045	0	0	0	0
2046	0	0	0	0
	\$4,213,850	\$1,334,192	\$57,211,925	\$62,759,967

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total	
Single Family Residential														
Meter Charge	\$ / Mo.													
5/8"	\$11.18	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	
3/4"	12.41	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	
1"	15.12	522	522	522	522	522	522	522	522	522	522	522	522	
1 1/2"	21.00	482	482	482	482	482	482	482	482	482	482	482	482	
2"	29.67	4	4	4	4	4	4	4	4	4	4	4	4	
3"	64.28	8	8	8	8	8	8	8	8	8	8	8	8	
4"	91.44	0	0	0	0	0	0	0	0	0	0	0	0	
6"	158.02	0	0	0	0	0	0	0	0	0	0	0	0	
8"	239.48	0	0	0	0	0	0	0	0	0	0	0	0	
		20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	
Total Fixed Charge Revenue		\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$2,955,666	
Environmental Fee	\$ / Mo.													
5/8"	\$0.00	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	12,407	
3/4"	0.00	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	7,173	
1"	0.00	522	522	522	522	522	522	522	522	522	522	522	522	
1 1/2"	0.00	482	482	482	482	482	482	482	482	482	482	482	482	
2"	0.00	4	4	4	4	4	4	4	4	4	4	4	4	
3"	0.00	8	8	8	8	8	8	8	8	8	8	8	8	
4"	0.00	0	0	0	0	0	0	0	0	0	0	0	0	
6"	0.00	0	0	0	0	0	0	0	0	0	0	0	0	
8"	0.00	0	0	0	0	0	0	0	0	0	0	0	0	
Total Enviro Fee Revenue		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Consumption Charge	\$ / CCF													
0 - 10	\$4.73	76,577	72,899	72,359	80,021	83,430	111,505	128,029	135,634	135,933	121,558	96,813	80,925	1,195,683
11 - 25	5.05	3,500	3,113	2,900	3,582	5,956	31,295	66,827	86,875	89,512	55,511	14,222	4,098	367,391
25 - 50	5.73	759	878	630	605	965	9,001	27,200	39,958	45,285	19,026	3,001	762	148,070
50 +	6.56	1,740	699	795	208	265	2,317	8,729	12,906	14,885	4,786	652	606	48,588
		82,576	77,589	76,684	84,416	90,616	154,118	230,785	275,373	285,615	200,881	114,688	86,391	1,759,732
Total Consumption Revenue		\$395,648	\$370,149	\$365,728	\$401,420	\$431,970	\$752,234	\$1,156,172	\$1,393,890	\$1,452,127	\$995,715	\$551,219	\$411,812	\$8,678,084
Total Single Family Residential		\$641,953	\$616,455	\$612,034	\$647,725	\$678,275	\$998,539	\$1,402,477	\$1,640,196	\$1,698,433	\$1,242,021	\$797,525	\$658,117	\$11,633,749

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
Multi-Family Residential													
Meter Charge	\$ / Mo.												
5/8"	\$11.18	546	546	546	546	546	546	546	546	546	546	546	546
3/4"	12.41	157	157	157	157	157	157	157	157	157	157	157	157
1"	15.12	75	75	75	75	75	75	75	75	75	75	75	75
1 1/2"	21.00	88	88	88	88	88	88	88	88	88	88	88	88
2"	29.67	19	19	19	19	19	19	19	19	19	19	19	19
3"	64.28	3	3	3	3	3	3	3	3	3	3	3	3
4"	91.44	2	2	2	2	2	2	2	2	2	2	2	2
6"	158.02	0	0	0	0	0	0	0	0	0	0	0	0
8"	239.48	0	0	0	0	0	0	0	0	0	0	0	0
		889	889	889	889	889	889	889	889	889	889	889	889
Total Fixed Charge Revenue	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$143,422
Environmental Fee	\$ / Mo.												
5/8"	\$0.00	546	546	546	546	546	546	546	546	546	546	546	546
3/4"	0.00	157	157	157	157	157	157	157	157	157	157	157	157
1"	0.00	75	75	75	75	75	75	75	75	75	75	75	75
1 1/2"	0.00	88	88	88	88	88	88	88	88	88	88	88	88
2"	0.00	19	19	19	19	19	19	19	19	19	19	19	19
3"	0.00	3	3	3	3	3	3	3	3	3	3	3	3
4"	0.00	2	2	2	2	2	2	2	2	2	2	2	2
6"	0.00	0	0	0	0	0	0	0	0	0	0	0	0
8"	0.00	0	0	0	0	0	0	0	0	0	0	0	0
Total Enviro Fee Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumption Charge	\$ / CCF												
All Use	\$5.10	11,100	10,862	10,366	11,927	10,179	11,944	13,485	15,685	17,362	15,758	13,409	11,694
		11,100	10,862	10,366	11,927	10,179	11,944	13,485	15,685	17,362	15,758	13,409	11,694
Total Consumption Revenue	\$56,610	\$55,396	\$52,867	\$60,828	\$51,913	\$60,914	\$68,774	\$79,994	\$88,546	\$80,366	\$68,386	\$59,639	\$784,232
Total Multi-Family Residential	\$68,562	\$67,348	\$64,818	\$72,780	\$63,865	\$72,866	\$80,725	\$91,945	\$100,498	\$92,318	\$80,338	\$71,591	\$927,654

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total	
Commercial / Industrial														
Meter Charge	\$ / Mo.													
5/8"	\$11.03	609	609	609	609	609	609	609	609	609	609	609	609	609
3/4"	14.20	476	476	476	476	476	476	476	476	476	476	476	476	476
1"	20.69	510	510	510	510	510	510	510	510	510	510	510	510	510
1 1/2"	36.48	495	495	495	495	495	495	495	495	495	495	495	495	495
2"	56.15	638	638	638	638	638	638	638	638	638	638	638	638	638
3"	108.16	167	167	167	167	167	167	167	167	167	167	167	167	167
4"	172.93	47	47	47	47	47	47	47	47	47	47	47	47	47
6"	334.33	10	10	10	10	10	10	10	10	10	10	10	10	10
8"	528.69	1	1	1	1	1	1	1	1	1	1	1	1	1
		2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952
Total Fixed Charge Revenue		\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$1,295,119
Environmental Fee	\$ / Mo.													
5/8"	\$0.00	609	609	609	609	609	609	609	609	609	609	609	609	609
3/4"	0.00	476	476	476	476	476	476	476	476	476	476	476	476	476
1"	0.00	510	510	510	510	510	510	510	510	510	510	510	510	510
1 1/2"	0.00	495	495	495	495	495	495	495	495	495	495	495	495	495
2"	0.00	638	638	638	638	638	638	638	638	638	638	638	638	638
3"	0.00	167	167	167	167	167	167	167	167	167	167	167	167	167
4"	0.00	47	47	47	47	47	47	47	47	47	47	47	47	47
6"	0.00	10	10	10	10	10	10	10	10	10	10	10	10	10
8"	0.00	1	1	1	1	1	1	1	1	1	1	1	1	1
Total Enviro Fee Revenue		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumption Charge	\$ / CCF													
All Usage	\$4.91	102,395	104,544	107,281	116,473	113,556	130,131	136,705	147,677	153,526	140,744	129,009	118,640	1,500,681
		102,395	104,544	107,281	116,473	113,556	130,131	136,705	147,677	153,526	140,744	129,009	118,640	1,500,681
Total Consumption Revenue		\$502,759	\$513,311	\$526,750	\$571,882	\$557,560	\$638,943	\$671,222	\$725,094	\$753,813	\$691,053	\$633,434	\$582,522	\$7,368,344
Total Commercial / Industrial		\$610,686	\$621,238	\$634,676	\$679,809	\$665,487	\$746,870	\$779,148	\$833,021	\$861,739	\$798,980	\$741,361	\$690,449	\$8,663,463

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
Irrigation													
Meter Charge	\$/ Mo.												
5/8"	2	2	2	2	2	2	2	2	2	2	2	2	2
3/4"	54	54	54	54	54	54	54	54	54	54	54	54	54
1"	211	211	211	211	211	211	211	211	211	211	211	211	211
1 1/2"	187	187	187	187	187	187	187	187	187	187	187	187	187
2"	125	125	125	125	125	125	125	125	125	125	125	125	125
3"	9	9	9	9	9	9	9	9	9	9	9	9	9
4"	3	3	3	3	3	3	3	3	3	3	3	3	3
6"	0	0	0	0	0	0	0	0	0	0	0	0	0
8"	0	0	0	0	0	0	0	0	0	0	0	0	0
	589	589	589	589	589	589	589	589	589	589	589	589	589
Total Fixed Charge Revenue	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$1,935,001
Environmental Fee	\$/ Mo.												
5/8"	2	2	2	2	2	2	2	2	2	2	2	2	2
3/4"	54	54	54	54	54	54	54	54	54	54	54	54	54
1"	211	211	211	211	211	211	211	211	211	211	211	211	211
1 1/2"	187	187	187	187	187	187	187	187	187	187	187	187	187
2"	125	125	125	125	125	125	125	125	125	125	125	125	125
3"	9	9	9	9	9	9	9	9	9	9	9	9	9
4"	3	3	3	3	3	3	3	3	3	3	3	3	3
6"	0	0	0	0	0	0	0	0	0	0	0	0	0
8"	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Enviro Fee Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Consumption Charge	\$/ CCF												
All Usage	9	120	81	33	634	24,484	74,843	92,523	92,423	69,914	24,931	593	380,588
	9	120	81	33	634	24,484	74,843	92,523	92,423	69,914	24,931	593	380,588
Total Consumption Revenue	\$54	\$720	\$486	\$198	\$3,804	\$146,904	\$449,058	\$555,138	\$554,538	\$419,484	\$149,586	\$3,558	\$2,283,528
Total Irrigation	\$161,304	\$161,970	\$161,736	\$161,448	\$165,054	\$308,154	\$610,308	\$716,388	\$715,788	\$580,734	\$310,836	\$164,808	\$4,218,529

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
Summary													
Customer Accounts													
Single Family Residential	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594	20,594
Multi-Family Residential	889	889	889	889	889	889	889	889	889	889	889	889	889
Commercial / Industrial	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952	2,952
Irrigation	589	589	589	589	589	589	589	589	589	589	589	589	589
Raw Water	5	5	5	5	5	5	5	5	5	5	5	5	5
	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>	<u>25,027</u>
Consumption (CCF)													
Single Family Residential	82,576	77,589	76,684	84,416	90,616	154,118	230,785	275,373	285,615	200,881	114,688	86,391	1,759,732
Multi-Family Residential	11,100	10,862	10,366	11,927	10,179	11,944	13,485	15,685	17,362	15,758	13,409	11,694	153,771
Commercial / Industrial	102,395	104,544	107,281	116,473	113,556	130,131	136,705	147,677	153,526	140,744	129,009	118,640	1,500,681
Irrigation	9	120	81	33	634	24,484	74,843	92,523	92,423	69,914	24,931	593	380,588
Raw Water	0	0	0	1,430	10,180	16,886	34,935	34,933	41,836	13,950	5,919	1,370	161,439
	<u>196,080</u>	<u>193,115</u>	<u>194,412</u>	<u>214,279</u>	<u>225,165</u>	<u>337,563</u>	<u>490,753</u>	<u>566,191</u>	<u>590,762</u>	<u>441,247</u>	<u>287,956</u>	<u>218,688</u>	<u>3,956,211</u>
Total Revenue													
Single Family Residential	\$641,953	\$616,455	\$612,034	\$647,725	\$678,275	\$998,539	\$1,402,477	\$1,640,196	\$1,698,433	\$1,242,021	\$797,525	\$658,117	\$11,633,749
Multi-Family Residential	68,562	67,348	64,818	72,780	63,865	72,866	80,725	91,945	100,498	92,318	80,338	71,591	927,654
Commercial / Industrial	610,686	621,238	634,676	679,809	665,487	746,870	779,148	833,021	861,739	798,980	741,361	690,449	8,663,463
Irrigation	161,304	161,970	161,736	161,448	165,054	308,154	610,308	716,388	715,788	580,734	310,836	164,808	4,218,529
Raw Water	0	0	0	744	5,294	8,781	18,166	18,165	21,755	7,254	3,078	712	83,948
	<u>\$1,482,505</u>	<u>\$1,467,010</u>	<u>\$1,473,264</u>	<u>\$1,562,505</u>	<u>\$1,577,974</u>	<u>\$2,135,210</u>	<u>\$2,890,825</u>	<u>\$3,299,715</u>	<u>\$3,398,213</u>	<u>\$2,721,306</u>	<u>\$1,933,137</u>	<u>\$1,585,678</u>	<u>\$25,527,343</u>

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total		
Revenue Detail															
Single Family Residential															
Fixed	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$246,305	\$2,955,666	25.4%	
Variable	395,648	370,149	365,728	401,420	431,970	752,234	1,156,172	1,393,890	1,452,127	995,715	551,219	411,812	8,678,084	74.6%	
Multi-Family Residential															
Fixed	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$11,952	\$143,422	15.5%	
Variable	56,610	55,396	52,867	60,828	51,913	60,914	68,774	79,994	88,546	80,366	68,386	59,639	784,232	84.5%	
Commercial / Industrial															
Fixed	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$107,927	\$1,295,119	14.9%	
Variable	502,759	513,311	526,750	571,882	557,560	638,943	671,222	725,094	753,813	691,053	633,434	582,522	7,368,344	85.1%	
Irrigation															
Fixed	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$161,250	\$1,935,001	45.9%	
Variable	54	720	486	198	3,804	146,904	449,058	555,138	554,538	419,484	149,586	3,558	2,283,528	54.1%	
Raw Water															
Fixed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0.0%	
Variable	0	0	0	744	5,294	8,781	18,166	18,165	21,755	7,254	3,078	712	83,948	100.0%	
	<u>\$1,482,505</u>	<u>\$1,467,010</u>	<u>\$1,473,264</u>	<u>\$1,562,505</u>	<u>\$1,577,974</u>	<u>\$2,135,210</u>	<u>\$2,890,825</u>	<u>\$3,299,715</u>	<u>\$3,398,213</u>	<u>\$2,721,306</u>	<u>\$1,933,137</u>	<u>\$1,585,678</u>	<u>\$25,527,343</u>		
													Total Fixed Revenue	\$6,329,207	24.9%
													Total Variable Revenue	19,114,187	75.1%
													2021 Actual	\$24,556,523	\$28,908,553
													Difference	\$970,820	113.2%
													Percent	4.0%	

City of Rapid City
 Water Rate Analysis
 Exhibit 8
 Commodity Distribution Factor

	Consumption (CCF)	Estimated 15.0% Losses	Net Water Delivered (Flow + Losses)	Consumption (MGD) ^[3]	Class Total % of Total	Class Total % of Total
Single Family Residential	1,777,329	266,599	2,043,929	4.19	46.4%	44.5%
Multi-Family Residential	155,309	23,296	178,605	0.37	4.1%	3.9%
Commercial / Industrial	1,515,688	227,353	1,743,041	3.57	39.5%	37.9%
Irrigation	384,394	57,659	442,053	0.91	10.0%	9.6%
Raw Water	163,053	24,458	187,511	0.38	0.0%	4.1%
Total	3,995,773	599,366	4,595,139	9.42	100.0%	100.0%

Water Production Report^[2] (mg) **10.86**

Notes

[1] - Estimated

[2] - Water Supply provided by City (Based on XXXX calendar year)

[3] - 748 gallons = 1 CCF; MGD conversion = Annual CCF * 748 / 1,000,000 / 365 (days/yr)

(COM w/o)

(COM)

City of Rapid City
 Water Rate Analysis
 Exhibit 9
 Capacity Distribution Factor

	Consumption (MGD)	Peaking Factors ^[1]	Peak Day Use (MGD)	Class % of Total
Single Family Residential	4.19	2.03	8.50	46.7%
Multi-Family Residential	0.37	1.81	0.66	3.6%
Commercial / Industrial	3.57	1.76	6.29	34.5%
Irrigation	0.91	3.05	2.76	15.2%
Raw Water	0.38	2.04	0.78	0.0%
Total	9.42		19.00	100.0%

Historical Peak Day ^[2] 25.15

Notes

[1] - Peaking factors based on peak to average month usage; data from Nov '15 - Oct '16

[2] - Water System Peak Day Data Provided by City (June 2016)

(CAP w/o)

City of Rapid City
 Water Rate Analysis
 Exhibit 10
 Customer Distribution Factors

	<i>Actual Customer</i>		Weighting Factor	<i>Customer Service & Acctng.</i>		<i>Meters & Services</i>	
	Number of Meters	% of Total		Weighted Meters	% of Total	Weighted Customer	% of Total
Single Family Residential	20,594	82.3%	1.00	20,594	82.3%	\$27,018	58.6%
Multi-Family Residential	889	3.6%	1.00	889	3.6%	1,652	3.6%
Commercial / Industrial	2,952	11.8%	1.00	2,952	11.8%	14,431	31.3%
Irrigation	589	2.4%	1.00	589	2.4%	2,740	5.9%
Raw Water	5	0.0%	1.00	5	0.0%	285	0.6%
Total	25,027	100.0%		25,027	100.0%	\$46,127	100.0%
		<i>(AC)</i>			<i>(WCA)</i>		<i>(WCMS)</i>

Notes

[1] Based on number of equivalent meters using the City's meter replacement costs

Development of Equivalent Meter Allocation Factor

	Number of Meters									Total	% of Total
	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"		
Single Family Residential	12,407	7,173	522	482	4	8	0	0	0	20,594	82.3%
Multi-Family Residential	546	157	75	88	19	3	2	0	0	889	3.6%
Commercial / Industrial	609	476	510	495	638	167	47	10	1	2,952	11.8%
Irrigation	2	54	211	187	125	9	3	0	0	589	2.4%
Raw Water	0	0	0	0	0	0	1	2	2	5	0.0%
Total Meters	13,563	7,858	1,318	1,251	785	186	53	12	3	25,027	

	Equivalent Meters									Total	% of Total
	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"		
<i>AWWA Weighting [2]</i>	1.00	1.50	2.50	5.00	8.00	15.00	25.00	50.00	80.00		
Single Family Residential	12,407	10,759	1,305	2,408	28	113	0	0	0	27,018	58.6%
Multi-Family Residential	546	235	188	438	152	45	50	0	0	1,652	3.6%
Commercial / Industrial	609	713	1,274	2,475	5,100	2,505	1,175	500	80	14,431	31.3%
Irrigation	2	80	528	933	996	128	75	0	0	2,740	5.9%
Raw Water	0	0	0	0	0	0	25	100	160	285	0.6%
	13,563	11,787	3,294	6,253	6,276	2,790	1,325	600	240	46,127	

Notes

[1] - Provided by the City

[2] - Based on AWWA M1 manual safe operating conditions for meters

City of Rapid City
 Water Rate Analysis
 Exhibit 11
 Public Fire Distribution Factor

	Number of Meters	Fire Prot. Requirements (gals/min) ^[1]	Duration (minutes)	Total FP Requirements (1,000 g/min)	% of Total
Single Family Residential	20,594	1,500	120	3,706,830	58.7%
Multi-Family Residential	889	3,000	180	479,790	7.6%
Commercial / Industrial	2,952	4,000	180	2,125,080	33.7%
Irrigation	589	0	0	0	0.0%
Raw Water	5	0	0	0	0.0%
Total	25,027			6,311,700	100.0%

(FP)

Notes

[1] Based on Table 6.6 in the Utility System Master Plan 2008

City of Rapid City
 Water Rate Analysis
 Exhibit 12
 Revenue Related Distribution Factor

	Projected 2024	% of Total
Single Family Residential	\$11,750,087	45.7%
Multi-Family Residential	936,930	3.6%
Commercial / Industrial	8,750,097	34.0%
Irrigation	4,260,714	16.6%
Raw Water	84,788	0.3%
	-----	-----
Total Rate Revenues	\$25,697,828	100.0%
	\$25,782,616	
		(RR)

DRAFT

City of Rapid City
Water Rate Analysis
Exhibit 13
Net Plant In Service

	12/31/22	Commodity (COM)	Commodity Without (COM w/o)	Capacity (CAP)	Capacity Without (CAP w/o)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
						Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
Land	\$6,979,015	\$6,979,015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	100.0% COM
Source of Supply												
Buildings	\$1,067,809	\$461,293	\$0	\$0	\$606,516	\$0	\$0	\$0	\$0	\$0	\$0	43.2% COM 56.8% CAP w/o
Other	1,191,031	514,525	0	0	676,506	0	0	0	0	0	0	43.2% COM 56.8% CAP w/o
Total Source of Supply	\$2,258,840	\$975,819	\$0	\$0	\$1,283,021	\$0	\$0	\$0	\$0	\$0	\$0	
Treatment												
Buildings	\$8,562,318	\$3,698,921	\$0	\$0	\$4,863,397	\$0	\$0	\$0	\$0	\$0	\$0	43.2% COM 56.8% CAP w/o
Other	94,838	40,970	0	0	53,868	0	0	0	0	0	0	43.2% COM 56.8% CAP w/o
Total Treatment	\$8,657,156	\$3,739,891	\$0	\$0	\$4,917,265	\$0	\$0	\$0	\$0	\$0	\$0	
Pumping												
Building	\$327,639	\$0	\$0	\$0	\$327,639	\$0	\$0	\$0	\$0	\$0	\$0	100.0% CAP w/o
Other	1,725,064	0	0	0	1,725,064	0	0	0	0	0	0	100.0% CAP w/o
Total Pumping	\$2,052,703	\$0	\$0	\$0	\$2,052,703	\$0	\$0	\$0	\$0	\$0	\$0	
Transmission & Distribution												
Mains	\$168,965,190	\$0	\$0	\$0	\$85,758,468	\$0	\$0	\$72,655,032	\$10,551,690	\$0	\$0	43.0% WCMS 50.8% CAP w/o 6.2% FP
Meters	241,003	0	0	0	0	0	0	241,003	0	0	0	100.0% WCMS
Hydrants	516,655	0	0	0	0	0	0	516,655	0	0	0	100.0% FP
Total Transmission & Distribution	\$169,722,848	\$0	\$0	\$0	\$85,758,468	\$0	\$0	\$72,896,035	\$11,068,345	\$0	\$0	
Storage												
Buildings	\$1,412,097	\$0	\$0	\$0	\$1,371,830	\$0	\$0	\$0	\$40,267	\$0	\$0	97.1% CAP w/o 2.9% FP
Other	3,173,600	0	0	0	3,083,102	0	0	0	90,498	0	0	97.1% CAP w/o 2.9% FP
Total Storage	\$4,585,697	\$0	\$0	\$0	\$4,454,931	\$0	\$0	\$0	\$130,766	\$0	\$0	
Plant Before General Plant	\$194,256,259	\$11,694,725	\$0	\$0	\$98,466,388	\$0	\$0	\$72,896,035	\$11,199,111	\$0	\$0	
Percent Plant Before General Plant	100.0%	6.0%	0.0%	0.0%	50.7%	0.0%	0.0%	37.5%	5.8%	0.0%	0.0%	Factor PBG
General Plant												
Buildings	\$2,426,775	\$146,098	\$0	\$0	\$1,230,106	\$0	\$0	\$910,664	\$139,907	\$0	\$0	As Factor PBG
Other	6,549	394	0	0	3,320	0	0	2,458	378	0	0	As Factor PBG
Equipment & Vehicles	1,380,495	83,109	0	0	699,758	0	0	518,041	79,587	0	0	As Factor PBG
Total General Plant	\$3,813,819	\$229,602	\$0	\$0	\$1,933,183	\$0	\$0	\$1,431,163	\$219,871	\$0	\$0	
Total Net Plant in Service	\$198,070,078	\$11,924,327	\$0	\$0	\$100,399,571	\$0	\$0	\$74,327,197	\$11,418,982	\$0	\$0	

City of Rapid City
 Water Rate Analysis
 Exhibit 14
 Distribution Storage

Fire Protection			
	Max Gal	Max Minutes	Total
Fire Flow Requirements	4,000	180	720,000
Storage Capacity		25,249,000	25,249,000
% Public Fire Protection			2.9%
% Capacity			97.1%

Source of Supply			
Capacity/Commodity			
Average Day (MGD)	10.86	COMM	43.2%
Peak Day (MGD)	25.15	(1-COMM)=CAP	56.8%

Distribution Main Analysis				
	Main Size	Length (ft)	Replcmt \$	Total
Distribution	1"	46	\$100	\$4,585
	4"	11,090	150	1,663,533
	6"	763,153	200	152,630,532
	8"	755,544	250	188,886,095
	10"	123,943	300	37,182,876
	12"	449,272	350	157,245,253
	14"	124,816	400	49,926,552
Transmission	16"	214,348	560	120,034,701
	18"	4,595	784	3,602,127
	20"	62,296	1,098	68,376,353
	24"	22,914	1,537	35,210,415
	30"	11,908	2,151	25,617,439
	Total 4" - 14"	2,543,879		\$587,539,426

Customer		43.0%
(1) Total @ 2" Equiv	\$254,387,899	
Capacity (1+2-3/4)		50.8%
(2) Cost for 4" - 10"	\$380,367,621	
(3) 12" - 14" @ Equiv 10"	172,226,559	
Fire Protection (1-cust-cap)		6.2%

2024	Commodity (COM)	Commodity Without (COM w/o)	Capacity (CAP)	Capacity Without (CAP w/o)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification	
					Actual Customer (AC)	Weighted for -						
						Cust. Acctg. (WCA)	Meters & Services (WCMS)					
Water Production												
	Salary & Wages	\$992,197	\$428,629	\$0	\$0	\$563,568	\$0	\$0	\$0	\$0	\$0	As Source of Supply
	Overtime Wages	40,000	17,280	0	0	22,720	0	0	0	0	0	As Source of Supply
	FTO/Uniform/Tool/ClassIV Pay	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Temporary Wages	94,000	40,608	0	0	53,392	0	0	0	0	0	As Source of Supply
	Temporary Overtime	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Social Security	61,516	26,575	0	0	34,941	0	0	0	0	0	As Source of Supply
	Medicare	14,387	6,215	0	0	8,172	0	0	0	0	0	As Source of Supply
	Retirement	59,532	25,718	0	0	33,814	0	0	0	0	0	As Source of Supply
	Section 125 Administra	57	25	0	0	32	0	0	0	0	0	As Source of Supply
	Workmens Comp	14,223	6,144	0	0	8,079	0	0	0	0	0	As Source of Supply
	Group Health Insurance	173,394	74,906	0	0	98,488	0	0	0	0	0	As Source of Supply
	Group Life Insurance	705	305	0	0	400	0	0	0	0	0	As Source of Supply
	Unemployment Insurance	1,125	486	0	0	639	0	0	0	0	0	As Source of Supply
	General & Auto Liabili	33,923	14,655	0	0	19,268	0	0	0	0	0	As Source of Supply
	Boiler Coverage	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Other Insurance	159,649	68,968	0	0	90,681	0	0	0	0	0	As Source of Supply
	Consultant Services	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Other Professional Ser	256,000	110,592	0	0	145,408	0	0	0	0	0	As Source of Supply
	Interdepartmental Char	42,804	18,491	0	0	24,313	0	0	0	0	0	As Source of Supply
	Publishing	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Machinery Rentals	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Lease/Purchases	850	367	0	0	483	0	0	0	0	0	As Source of Supply
	Other Rentals	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Repair-Roll Stock	5,500	2,376	0	0	3,124	0	0	0	0	0	As Source of Supply
	Repair-Structures	115,000	49,680	0	0	65,320	0	0	0	0	0	As Source of Supply
	Repair-Equipment	350,000	151,200	0	0	198,800	0	0	0	0	0	As Source of Supply
	Repair-Streets/Curbs/S	150,000	64,800	0	0	85,200	0	0	0	0	0	As Source of Supply
	Repair-Water & Sewer	1,500	648	0	0	852	0	0	0	0	0	As Source of Supply
	Repair-Electrical	150,000	64,800	0	0	85,200	0	0	0	0	0	As Source of Supply
	Miscellaneous	2,500	1,080	0	0	1,420	0	0	0	0	0	As Source of Supply
	Office Supplies	3,000	1,296	0	0	1,704	0	0	0	0	0	As Source of Supply
	Gasoline Oil Fuel	25,000	10,800	0	0	14,200	0	0	0	0	0	As Source of Supply
	Clothing Food	6,000	2,592	0	0	3,408	0	0	0	0	0	As Source of Supply
	Safety Supplies	5,000	2,160	0	0	2,840	0	0	0	0	0	As Source of Supply
	Janitor & Chemical Sup	335,000	144,720	0	0	190,280	0	0	0	0	0	As Source of Supply
	Minor Tools	35,000	15,120	0	0	19,880	0	0	0	0	0	As Source of Supply
	Agricultural Supply	1,000	432	0	0	568	0	0	0	0	0	As Source of Supply
	Tires	4,000	1,728	0	0	2,272	0	0	0	0	0	As Source of Supply
	Misc Supplies & Materi	70,000	30,240	0	0	39,760	0	0	0	0	0	As Source of Supply
	Travel & Training	25,000	10,800	0	0	14,200	0	0	0	0	0	As Source of Supply
	Telephone-Local	18,000	7,776	0	0	10,224	0	0	0	0	0	As Source of Supply
	Natural Gas	38,556	16,656	0	0	21,900	0	0	0	0	0	As Source of Supply
	Electricity	957,603	413,685	0	0	543,919	0	0	0	0	0	As Source of Supply
	Water	29,723	12,840	0	0	16,883	0	0	0	0	0	As Source of Supply
	PropaneHFuelFOil	200	86	0	0	114	0	0	0	0	0	As Source of Supply
	Drainage Fees	4,507	1,947	0	0	2,560	0	0	0	0	0	As Source of Supply
	Dues	3,200	1,382	0	0	1,818	0	0	0	0	0	As Source of Supply
	Computers	10,000	4,320	0	0	5,680	0	0	0	0	0	As Source of Supply
	Software	4,000	1,728	0	0	2,272	0	0	0	0	0	As Source of Supply
	Software Maintenance Contracts	10,000	4,320	0	0	5,680	0	0	0	0	0	As Source of Supply
	Office Equipment	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Buildings & Structures	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Furniture & Minor Equi	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Machinery & Automated	165,000	71,280	0	0	93,720	0	0	0	0	0	As Source of Supply
	Refund or Reimbursemen	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Collect from Other Age	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Salvation Army	0	0	0	0	0	0	0	0	0	0	As Source of Supply
	Total Water Production	\$4,468,651	\$1,930,457	\$0	\$0	\$2,538,194	\$0	\$0	\$0	\$0	\$0	

2024	Commodity (COM)	Commodity Without (COM w/o)	Capacity (CAP)	Capacity Without (CAP w/o)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification	
					Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)					
Water Distribution												
	Salary & Wages	\$1,034,205	\$0	\$0	\$522,569	\$0	\$0	\$444,191	\$67,445	\$0	\$0	As Trans. / Dist. Plant
	Overtime Wages	45,000	0	0	22,738	0	0	19,328	2,935	0	0	As Trans. / Dist. Plant
	FTO/Uniform/Tool/Class IV Pay	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Temporary Wages	16,000	0	0	8,085	0	0	6,872	1,043	0	0	As Trans. / Dist. Plant
	Temporary Overtime	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Social Security	59,132	0	0	29,879	0	0	25,397	3,856	0	0	As Trans. / Dist. Plant
	Medicare	13,829	0	0	6,988	0	0	5,940	902	0	0	As Trans. / Dist. Plant
	Retirement	57,225	0	0	28,915	0	0	24,578	3,732	0	0	As Trans. / Dist. Plant
	Section 125 Administra	57	0	0	29	0	0	24	4	0	0	As Trans. / Dist. Plant
	Workmens Comp	14,223	0	0	7,187	0	0	6,109	928	0	0	As Trans. / Dist. Plant
	Group Health Insurance	202,255	0	0	102,196	0	0	86,868	13,190	0	0	As Trans. / Dist. Plant
	Group Life Insurance	728	0	0	368	0	0	313	47	0	0	As Trans. / Dist. Plant
	Unemployment Insurance	1,500	0	0	758	0	0	644	98	0	0	As Trans. / Dist. Plant
	General & Auto Liabili	22,955	0	0	11,599	0	0	9,859	1,497	0	0	As Trans. / Dist. Plant
	Boiler Coverage	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Other Insurance	21,742	0	0	10,986	0	0	9,338	1,418	0	0	As Trans. / Dist. Plant
	Consultant Services	25,000	0	0	12,632	0	0	10,738	1,630	0	0	As Trans. / Dist. Plant
	Other Professional Ser	37,000	0	0	18,696	0	0	15,892	2,413	0	0	As Trans. / Dist. Plant
	Interdepartmental Char	62,739	0	0	31,701	0	0	26,946	4,091	0	0	As Trans. / Dist. Plant
	Publishing	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Machinery Rentals	5,000	0	0	2,526	0	0	2,148	326	0	0	As Trans. / Dist. Plant
	Lease/Purchases	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Other Rentals	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Repair-Roll Stock	50,000	0	0	25,264	0	0	21,475	3,261	0	0	As Trans. / Dist. Plant
	Repair-Structures	50,000	0	0	25,264	0	0	21,475	3,261	0	0	As Trans. / Dist. Plant
	Repair-Equipment	20,000	0	0	10,106	0	0	8,590	1,304	0	0	As Trans. / Dist. Plant
	Repair-Streets/Curbs/S	220,000	0	0	111,163	0	0	94,490	14,347	0	0	As Trans. / Dist. Plant
	Repair-Water & Sewer	200,000	0	0	101,057	0	0	85,900	13,043	0	0	As Trans. / Dist. Plant
	Repair-Electrical	5,000	0	0	2,526	0	0	2,148	326	0	0	As Trans. / Dist. Plant
	Miscellaneous	3,500	0	0	1,768	0	0	1,503	228	0	0	As Trans. / Dist. Plant
	Office Supplies	6,000	0	0	3,032	0	0	2,577	391	0	0	As Trans. / Dist. Plant
	Gasoline Oil Fuel	70,000	0	0	35,370	0	0	30,065	4,565	0	0	As Trans. / Dist. Plant
	Clothing Food	15,000	0	0	7,579	0	0	6,443	978	0	0	As Trans. / Dist. Plant
	Safety Supplies	2,000	0	0	1,011	0	0	859	130	0	0	As Trans. / Dist. Plant
	Janitor & Chemical Sup	5,000	0	0	2,526	0	0	2,148	326	0	0	As Trans. / Dist. Plant
	Minor Tools	50,000	0	0	25,264	0	0	21,475	3,261	0	0	As Trans. / Dist. Plant
	Agricultural Supply	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Tires	10,000	0	0	5,053	0	0	4,295	652	0	0	As Trans. / Dist. Plant
	Misc Supplies & Materi	63,000	0	0	31,833	0	0	27,059	4,108	0	0	As Trans. / Dist. Plant
	Travel & Training	20,000	0	0	10,106	0	0	8,590	1,304	0	0	As Trans. / Dist. Plant
	Telephone-Local	10,000	0	0	5,053	0	0	4,295	652	0	0	As Trans. / Dist. Plant
	Natural Gas	4,298	0	0	2,172	0	0	1,846	280	0	0	As Trans. / Dist. Plant
	Electricity	26,231	0	0	13,254	0	0	11,266	1,711	0	0	As Trans. / Dist. Plant
	Water	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	PropaneHFuelFOil	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Drainage Fees	0	0	0	0	0	0	0	0	0	0	As Trans. / Dist. Plant
	Dues	500	0	0	253	0	0	215	33	0	0	As Trans. / Dist. Plant
	Computers	8,000	0	0	4,042	0	0	3,436	522	0	0	As Trans. / Dist. Plant
	Software	5,000	0	0	2,526	0	0	2,148	326	0	0	As Trans. / Dist. Plant
	Software Maintenance Contracts	5,000	0	0	2,526	0	0	2,148	326	0	0	As Trans. / Dist. Plant
	Office Equipment	4,000	0	0	2,021	0	0	1,718	261	0	0	As Trans. / Dist. Plant
	Furniture & Minor Equipment	10,000	0	0	5,053	0	0	4,295	652	0	0	As Trans. / Dist. Plant
	Machinery & Automated	714,500	0	0	361,026	0	0	306,878	46,596	0	0	As Trans. / Dist. Plant
	Refund or Reimbusemen	1,000	0	0	505	0	0	430	65	0	0	As Trans. / Dist. Plant
	Total Water Distribution	\$3,196,619	\$0	\$0	\$1,615,205	\$0	\$0	\$1,372,949	\$208,465	\$0	\$0	

	2024	Customer Related										Basis of Classification	
		Commodity (COM)	Commodity Without (COM w/o)	Capacity (CAP)	Capacity Without (CAP w/o)	Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)	Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)		
Water Administration													
Salary & Wages	\$343,369	\$20,672	\$0	\$0	\$174,050	\$0	\$0	\$128,852	\$19,796	\$0	\$0	As Net Plant in Service	
Overtime Wages	500	30	0	0	253	0	0	188	29	0	0	As Net Plant in Service	
FTO/Uniform/Tool/ClassIV Pay	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Social Security	17,796	1,071	0	0	9,021	0	0	6,678	1,026	0	0	As Net Plant in Service	
Medicare	4,162	251	0	0	2,110	0	0	1,562	240	0	0	As Net Plant in Service	
Retirement	17,222	1,037	0	0	8,730	0	0	6,463	993	0	0	As Net Plant in Service	
Section 125 Administr	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Workmens Comp	139	8	0	0	70	0	0	52	8	0	0	As Net Plant in Service	
Group Health Insuranc	37,577	2,262	0	0	19,047	0	0	14,101	2,166	0	0	As Net Plant in Service	
Group Life Insurance	145	9	0	0	73	0	0	54	8	0	0	As Net Plant in Service	
Unemployment Insuranc	375	23	0	0	190	0	0	141	22	0	0	As Net Plant in Service	
General & Auto Liabil	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Other Insurance	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Consultant Services	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Other Professional Se	4,000	241	0	0	2,028	0	0	1,501	231	0	0	As Net Plant in Service	
Interdepartmental Cha	92,128	5,546	0	0	46,699	0	0	34,572	5,311	0	0	As Net Plant in Service	
Publishing	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Lease/Purchase	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Repair-Roll Stock	500	30	0	0	253	0	0	188	29	0	0	As Net Plant in Service	
Repair-Structures	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Repair-Equipment	500	30	0	0	253	0	0	188	29	0	0	As Net Plant in Service	
Repair-Electrical	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Office Supplies	3,000	181	0	0	1,521	0	0	1,126	173	0	0	As Net Plant in Service	
Gasoline Oil Fuel	2,000	120	0	0	1,014	0	0	751	115	0	0	As Net Plant in Service	
Clothing Food	300	18	0	0	152	0	0	113	17	0	0	As Net Plant in Service	
Safety Supplies	250	15	0	0	127	0	0	94	14	0	0	As Net Plant in Service	
Janitor & Chemical Supplies	100	6	0	0	51	0	0	38	6	0	0	As Net Plant in Service	
Minor Tools	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Agricultural Supply	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Tires	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Misc Supplies & Mater	2,500	151	0	0	1,267	0	0	938	144	0	0	As Net Plant in Service	
Travel & Training	10,000	602	0	0	5,069	0	0	3,753	577	0	0	As Net Plant in Service	
Telephone-Local	6,000	361	0	0	3,041	0	0	2,252	346	0	0	As Net Plant in Service	
Dues	6,000	361	0	0	3,041	0	0	2,252	346	0	0	As Net Plant in Service	
Subscriptions	300	18	0	0	152	0	0	113	17	0	0	As Net Plant in Service	
Computers	4,000	241	0	0	2,028	0	0	1,501	231	0	0	As Net Plant in Service	
Software	2,000	120	0	0	1,014	0	0	751	115	0	0	As Net Plant in Service	
Software Maintenance Contracts	2,500	151	0	0	1,267	0	0	938	144	0	0	As Net Plant in Service	
Office Equipment	5,000	301	0	0	2,534	0	0	1,876	288	0	0	As Net Plant in Service	
Machinery & Automated Equipment	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Refund or Reimbursement	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Collect from Other Agencies	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service	
Total Water Administration	\$562,362	\$33,856	\$0	\$0	\$285,055	\$0	\$0	\$211,030	\$32,421	\$0	\$0		

2024	Commodity (COM)	Commodity Without (COM w/o)	Capacity (CAP)	Capacity Without (CAP w/o)	Customer Related			Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)	Basis of Classification
					Actual Customer (AC)	Cust. Acctg. (WCA)	Meters & Services (WCMS)				
Water Billing / Services											
Salary & Wages	\$877,455	\$0	\$0	\$0	\$0	\$0	\$877,455	\$0	\$0	\$0	100.0% WCMS
Overtime Wages	30,000	0	0	0	0	0	30,000	0	0	0	100.0% WCMS
FTO/Uniform/Tool/ClassIV Pay	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Temporary Wages	44,000	0	0	0	0	0	44,000	0	0	0	100.0% WCMS
Social Security	52,077	0	0	0	0	0	52,077	0	0	0	100.0% WCMS
Medicare	12,179	0	0	0	0	0	12,179	0	0	0	100.0% WCMS
Retirement	50,397	0	0	0	0	0	50,397	0	0	0	100.0% WCMS
Section 125 Administra	114	0	0	0	0	0	114	0	0	0	100.0% WCMS
Workmens Comp	9,243	0	0	0	0	0	9,243	0	0	0	100.0% WCMS
Group Health Insurance	158,936	0	0	0	0	0	158,936	0	0	0	100.0% WCMS
Group Life Insurance	629	0	0	0	0	0	629	0	0	0	100.0% WCMS
Unemployment Insurance	975	0	0	0	0	0	975	0	0	0	100.0% WCMS
General & Auto Liability	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Other Insurance	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Consultant Services	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Other Professional Ser	300,000	0	0	0	0	0	300,000	0	0	0	100.0% WCMS
Interdepartmental Char	(352,647)	0	0	0	0	0	(352,647)	0	0	0	100.0% WCMS
Publishing	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Repair-Roll Stock	15,000	0	0	0	0	0	15,000	0	0	0	100.0% WCMS
Repair-Structures	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Repair-Equipment	10,000	0	0	0	0	0	10,000	0	0	0	100.0% WCMS
Repair-Streets/Curbs/S	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Repair-Water & Sewer	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Repair-Electrical	1,000	0	0	0	0	0	1,000	0	0	0	100.0% WCMS
Miscellaneous	2,000	0	0	0	0	0	2,000	0	0	0	100.0% WCMS
Office Supplies	10,000	0	0	0	0	0	10,000	0	0	0	100.0% WCMS
Gasoline Oil Fuel	35,000	0	0	0	0	0	35,000	0	0	0	100.0% WCMS
Clothing Food	7,000	0	0	0	0	0	7,000	0	0	0	100.0% WCMS
Safety Supplies	1,000	0	0	0	0	0	1,000	0	0	0	100.0% WCMS
Janitor & Chemical Sup	2,000	0	0	0	0	0	2,000	0	0	0	100.0% WCMS
Minor Tools	5,000	0	0	0	0	0	5,000	0	0	0	100.0% WCMS
Tires	8,000	0	0	0	0	0	8,000	0	0	0	100.0% WCMS
Misc Supplies & Materi	1,800,000	0	0	0	0	0	1,800,000	0	0	0	100.0% WCMS
Travel & Training	15,000	0	0	0	0	0	15,000	0	0	0	100.0% WCMS
Telephone-Local	9,000	0	0	0	0	0	9,000	0	0	0	100.0% WCMS
Elections	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Dues	100	0	0	0	0	0	100	0	0	0	100.0% WCMS
Subscriptions	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Computers	10,000	0	0	0	0	0	10,000	0	0	0	100.0% WCMS
Software	3,000	0	0	0	0	0	3,000	0	0	0	100.0% WCMS
Software Maintenance Contracts	35,000	0	0	0	0	0	35,000	0	0	0	100.0% WCMS
Office Equipment	5,000	0	0	0	0	0	5,000	0	0	0	100.0% WCMS
Buildings & Structures	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Furniture & Minor Equipment	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Machinery & Automated	60,000	0	0	0	0	0	60,000	0	0	0	100.0% WCMS
Refund or Reimbursement	250,000	0	0	0	0	0	250,000	0	0	0	100.0% WCMS
Collect from Other Age	0	0	0	0	0	0	0	0	0	0	100.0% WCMS
Total Water Billing / Services	\$3,466,458	\$0	\$0	\$0	\$0	\$0	\$3,466,458	\$0	\$0	\$0	

	2024	Customer Related										Basis of Classification	
		Commodity (COM)	Commodity Without (COM w/o)	Capacity (CAP)	Capacity Without (CAP w/o)	Actual Customer (AC)	Weighted for -		Public Fire Protection (FP)	Revenue Related (RR)	Direct Assign. (DA)		
						Cust. Acctg. (WCA)	Meters & Services (WCMS)						
Preventative Maintenance Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	As Net Plant in Service
Total Operations & Maintenance	\$11,694,091	\$1,964,313	\$0	\$0	\$4,438,454	\$0	\$0	\$5,050,438	\$240,886	\$0	\$0		
Debt Service													
Drinking Water 2	\$423,733	\$25,510	\$0	\$0	\$214,786	\$0	\$0	\$159,009	\$24,429	\$0	\$0	\$0	As Net Plant in Service
Drinking Water 3	110,595	6,658	0	0	56,059	0	0	41,501	6,376	0	0	0	As Net Plant in Service
2015 Revenue Bond	3,374,944	203,180	0	0	1,710,722	0	0	1,266,472	194,570	0	0	0	As Net Plant in Service
Assumed Loan Issuance	0	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service
New Revenue Bonds	0	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service
Total Debt Service	\$3,909,272	\$235,348	\$0	\$0	\$1,981,567	\$0	\$0	\$1,466,982	\$225,374	\$0	\$0		
Less Connection Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	As Debt Service
Net Annual Debt Service	\$3,909,272	\$235,348	\$0	\$0	\$1,981,567	\$0	\$0	\$1,466,982	\$225,374	\$0	\$0		
Rate Funded Capital	\$8,900,000	\$3,844,800	\$0	\$0	\$5,055,200	\$0	\$0	\$0	\$0	\$0	\$0		43.2% COM 56.8% CAP w/c
Transfer To / (From) Reserves													
To/(From) Operating Reserve	\$4,360,952	\$262,541	\$0	\$0	\$2,210,519	\$0	\$0	\$1,636,478	\$251,414	\$0	\$0	\$0	As Net Plant in Service
To/(From) Capital Reserve	0	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service
To/(From) Membrane Replacement Reserve	0	0	0	0	0	0	0	0	0	0	0	0	As Source of Supply
To/(From) Rate Stabilization Reserve	0	0	0	0	0	0	0	0	0	0	0	0	As Net Plant in Service
Total Transfer To / (From) Reserves	\$4,360,952	\$262,541	\$0	\$0	\$2,210,519	\$0	\$0	\$1,636,478	\$251,414	\$0	\$0		
Total Revenue Requirement	\$28,864,314	\$6,307,002	\$0	\$0	\$13,685,741	\$0	\$0	\$8,153,898	\$717,674	\$0	\$0		
Less: Non-Operating Revenues													
Interest	\$112,469	\$24,575	\$0	\$0	\$53,326	\$0	\$0	\$31,771	\$2,796	\$0	\$0	\$0	As Total Rev Req
Single Family Residential - Enviro. Fee	0	0	0	0	0	0	0	0	0	0	0	0	As Total Rev Req
Multi-Family Residential - Enviro. Fee	0	0	0	0	0	0	0	0	0	0	0	0	As Total Rev Req
Commercial / Industrial - Enviro. Fee	0	0	0	0	0	0	0	0	0	0	0	0	As Total Rev Req
Hydrant Daily Charge	12,049	2,633	0	0	5,713	0	0	3,404	300	0	0	0	As Total Rev Req
Hydrant Meter Move Charge	1,555	340	0	0	737	0	0	439	39	0	0	0	As Total Rev Req
Inactive Charge	8,401	1,836	0	0	3,983	0	0	2,373	209	0	0	0	As Total Rev Req
Misc Charges	4,796	1,048	0	0	2,274	0	0	1,355	119	0	0	0	As Total Rev Req
Move In Charge	97,270	21,254	0	0	46,120	0	0	27,478	2,418	0	0	0	As Total Rev Req
New Remote Charge	5,758	1,258	0	0	2,730	0	0	1,627	143	0	0	0	As Total Rev Req
No Show Charge	786	172	0	0	373	0	0	222	20	0	0	0	As Total Rev Req
Repair Charge	5,458	1,192	0	0	2,588	0	0	1,542	136	0	0	0	As Total Rev Req
Return Check Fee	3,687	806	0	0	1,748	0	0	1,041	92	0	0	0	As Total Rev Req
Service Charge Fee	123,327	26,948	0	0	58,474	0	0	34,839	3,066	0	0	0	As Total Rev Req
Late Fee	103,119	22,532	0	0	48,893	0	0	29,130	2,564	0	0	0	As Total Rev Req
Frozen Meter	24,409	5,334	0	0	11,573	0	0	6,895	607	0	0	0	As Total Rev Req
After hours charge	354	77	0	0	168	0	0	100	9	0	0	0	As Total Rev Req
Total Non-Operating Revenues	\$503,437	\$110,004	\$0	\$0	\$238,700	\$0	\$0	\$142,216	\$12,517	\$0	\$0		
Net Revenue Requirement	\$28,360,878	\$6,196,998	\$0	\$0	\$13,447,041	\$0	\$0	\$8,011,681	\$705,157	\$0	\$0		

City of Rapid City
Water Rate Analysis
Exhibit 16
Distribution of the Revenue Requirement

	Total	Single Family Residential	Multi-Family Residential	Commercial / Industrial	Irrigation	Raw Water	Factor
Commodity	\$6,196,998	\$2,756,439	\$240,866	\$2,350,663	\$596,152	\$252,878	(COM)
Commodity Without	0	0	0	0	0	0	(COM w/o)
	\$6,196,998	\$2,756,439	\$240,866	\$2,350,663	\$596,152	\$252,878	
Capacity	\$0	\$0	\$0	\$0	\$0	\$0	(CAP)
Capacity Without	13,447,041	6,277,140	489,071	4,641,093	2,039,737	0	(CAP w/o)
	\$13,447,041	\$6,277,140	\$489,071	\$4,641,093	\$2,039,737	\$0	
Customer							
Actual Customer	\$0	\$0	\$0	\$0	\$0	\$0	(AC)
Cust. Acctg.	0	0	0	0	0	0	(WCA)
Meters & Services	8,011,681	4,692,757	286,977	2,506,497	475,950	49,501	(WCMS)
Total Customer	\$8,011,681	\$4,692,757	\$286,977	\$2,506,497	\$475,950	\$49,501	
Public Fire Protection	\$705,157	\$414,135	\$53,603	\$237,419	\$0	\$0	(FP)
Revenue Related	\$0	\$0	\$0	\$0	\$0	\$0	(RR)
Direct Assign.	\$0	\$0	\$0	\$0	\$0	\$0	(DA)
Net Revenue Requirement	\$28,360,878	\$14,140,471	\$1,070,518	\$9,735,672	\$3,111,839	\$302,379	

City of Rapid City
 Water Rate Analysis
 Exhibit 17
 Summary of Cost of Service

	Total	Single Family Residential	Multi-Family Residential	Commercial / Industrial	Irrigation	Raw Water	Notes
Revenues at Present Rates	\$25,782,616	\$11,750,087	\$936,930	\$8,750,097	\$4,260,714	\$84,788	
Net Revenue Requirement	\$28,360,878	\$14,140,471	\$1,070,518	\$9,735,672	\$3,111,839	\$302,379	
<i>Bal/Def of Funds</i>	<i>(\$2,578,262)</i>	<i>(\$2,390,384)</i>	<i>(\$133,587)</i>	<i>(\$985,574)</i>	<i>\$1,148,875</i>	<i>(\$217,591)</i>	
Required % Change in Rates	10.0%	20.3%	14.3%	11.3%	-27.0%	256.6%	

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City of Rapid City
Water Rate Analysis
Exhibit 18
Summary of Unit Costs

	Total	Single Family Residential	Multi-Family Residential	Commercial / Industrial	Irrigation	Raw Water	Notes
Consumption Related							
Commodity - \$/CCF	\$1.55	\$1.55	\$1.55	\$1.55	\$1.55	\$1.55	
Capacity - \$/CCF	0.00	3.53	3.15	3.06	5.31	0.00	
RR/FP/DA - \$/CCF	0.18	0.23	0.35	0.16	0.00	0.30	
	\$1.73	\$5.32	\$5.05	\$4.77	\$6.86	\$1.85	
Current Rates		\$4.93	\$5.10	\$4.91	\$6.00	\$0.52	
Customer Related							
Actual Customer	\$0.00						
WCA	0.00						
WCMS	14.47						
	\$14.47						
		\$11.18	\$11.18	\$11.03	\$118.19	\$0.00	
Basic Data							
Consumption (CCF)	3,995,773	1,777,329	155,309	1,515,688	384,394	163,053	
# of Accounts	25,027	20,594	889	2,952	589	5	
# of Wt. Cust (WCA)	25,027	20,594	889	2,952	589	5	
# of Wt. Cust (WCMS)	46,127	27,018	1,652	14,431	2,740	285	

City of Rapid City
Water Rate Analysis
Rate Schedule
Single Family Residential Rates - Alternative 1 Rates

	<i>Present Rates</i>	<i>Proposed</i>				
		2024	2025	2026	2027	2028
Meter Charge	(\$ / Mo.)					
5/8"	\$11.18	--	--	--	--	--
3/4"	12.41	--	--	--	--	--
3/4" & Less	--	\$12.35	\$13.60	\$14.96	\$16.45	\$18.10
1"	15.12	20.62	22.71	24.98	27.47	30.23
1 1/2"	21.00	41.13	45.29	49.82	54.78	60.27
2"	29.67	65.83	72.49	79.74	87.68	96.47
3"	64.28	123.50	136.00	149.60	164.50	181.00
4"	91.44	205.87	226.71	249.38	274.22	301.73
6"	158.02	411.63	453.29	498.62	548.28	603.27
8"	239.48	658.63	725.29	797.82	877.28	965.27
Consumption Charge	(\$ / CCF)					
0 - 10	\$4.73	\$5.20	\$5.72	\$6.29	\$6.92	\$7.61
11 - 25	5.05	5.55	6.11	6.72	7.39	8.12
25 - 50	5.73	6.30	6.93	7.62	8.38	9.22
50 +	6.56	7.21	7.93	8.72	9.60	10.55

City of Rapid City
Water Rate Analysis
Single Family Residential Rates
Alternative 1 Rates: Year 1 - 2024

Consumption (CCF)	Present Rates	Proposed Rates	Difference	
			\$	%
0	\$11.18	\$12.35	\$1.17	10.5%
2	\$20.64	\$22.75	2.11	10.2%
4	\$30.10	\$33.15	3.05	10.1%
6	\$39.56	\$43.55	3.99	10.1%
8	\$49.02	\$53.95	4.93	10.1%
10	\$58.48	\$64.35	5.87	10.0%
15	\$83.73	\$92.10	8.37	10.0%
20	\$108.98	\$119.85	10.87	10.0%
25	\$134.23	\$147.60	13.37	10.0%
40	\$220.18	\$242.10	21.92	10.0%
60	\$343.08	\$377.20	34.12	9.9%
80	\$474.28	\$521.40	47.12	9.9%
100	\$605.48	\$665.60	60.12	9.9%
125	\$769.48	\$845.85	76.37	9.9%
150	\$933.48	\$1,026.10	92.62	9.9%

<i>Present Rates</i>		<i>Proposed Rates</i>	
Meter Charge	\$/Acct.	Meter Charge	\$/Acct.
5/8"	\$11.18	3/4" & Less	\$12.35
Consumption Charge	\$ / CCF	Consumption Charge	\$ / CCF
0 - 10	\$4.73	0 - 10	\$5.20
11 - 25	5.05	11 - 25	5.55
25 - 50	5.73	25 - 50	6.30
50 +	6.56	50 +	7.21

City of Rapid City
Water Rate Analysis
Rate Schedule
Multi-Family Residential Rates - Alternative 1 Rates

	<i>Present Rates</i>	<i>Proposed</i>				
		2024	2025	2026	2027	2028
Meter Charge	(\$ / Mo.)					
5/8"	\$11.18	--	--	--	--	--
3/4"	12.41	--	--	--	--	--
3/4" & Less	--	\$12.35	\$13.60	\$14.96	\$16.45	\$18.10
1"	15.12	20.62	22.71	24.98	27.47	30.23
1 1/2"	21.00	41.13	45.29	49.82	54.78	60.27
2"	29.67	65.83	72.49	79.74	87.68	96.47
3"	64.28	123.50	136.00	149.60	164.50	181.00
4"	91.44	205.87	226.71	249.38	274.22	301.73
6"	158.02	411.63	453.29	498.62	548.28	603.27
8"	239.48	658.63	725.29	797.82	877.28	965.27
Consumption Charge	(\$ / CCF)					
All Use	\$5.10	\$5.61	\$6.17	\$6.79	\$7.47	\$8.22

**City of Rapid City
Water Rate Analysis
Multi-Family Residential Rates
Alternative 1 Rates: Year 1 - 2024**

Consumption (CCF)	Present Rates	Proposed Rates	Difference	
			\$	%
0	\$11.18	\$12.35	\$1.17	10.5%
10	\$62.18	\$68.45	6.27	10.1%
20	\$113.18	\$124.55	11.37	10.0%
30	\$164.18	\$180.65	16.47	10.0%
40	\$215.18	\$236.75	21.57	10.0%
50	\$266.18	\$292.85	26.67	10.0%
75	\$393.68	\$433.10	39.42	10.0%
100	\$521.18	\$573.35	52.17	10.0%
125	\$648.68	\$713.60	64.92	10.0%
150	\$776.18	\$853.85	77.67	10.0%
200	\$1,031.18	\$1,134.35	103.17	10.0%
250	\$1,286.18	\$1,414.85	128.67	10.0%
300	\$1,541.18	\$1,695.35	154.17	10.0%
350	\$1,796.18	\$1,975.85	179.67	10.0%
400	\$2,051.18	\$2,256.35	205.17	10.0%

<i>Present Rates</i>		<i>Proposed Rates</i>	
Meter Charge	\$/Acct.	Meter Charge	\$/Acct.
5/8"	\$11.18	3/4" & Less	\$12.35
Consumption Charge	\$/ CCF	Consumption Charge	\$/ CCF
All Use	\$5.10	All Use	\$5.61

City of Rapid City
Water Rate Analysis
Rate Schedule
Commercial / Industrial Rates - Alternative 1 Rates

	<i>Present Rates</i>	<i>Proposed</i>				
		2024	2025	2026	2027	2028
Meter Charge	(\$ / Mo.)					
5/8"	\$11.03	--	--	--	--	--
3/4"	14.20	--	--	--	--	--
3/4" & Less	--	\$12.35	\$13.60	\$14.96	\$16.45	\$18.10
1"	20.69	20.62	22.71	24.98	27.47	30.23
1 1/2"	36.48	41.13	45.29	49.82	54.78	60.27
2"	56.15	65.83	72.49	79.74	87.68	96.47
3"	108.16	123.50	136.00	149.60	164.50	181.00
4"	172.93	205.87	226.71	249.38	274.22	301.73
6"	334.33	411.63	453.29	498.62	548.28	603.27
8"	528.69	658.63	725.29	797.82	877.28	965.27
Consumption Charge	(\$ / CCF)					
All Usage	\$4.91	\$5.40	\$5.94	\$6.53	\$7.18	\$7.90

City of Rapid City
Water Rate Analysis
Commercial / Industrial Rates - 2"
Alternative 1 Rates: Year 1 - 2024

Consumption (CCF)	Present Rates	Proposed Rates	Difference	
			\$	%
0	\$56.15	\$65.83	\$9.68	17.2%
25	\$178.90	\$200.83	21.93	12.3%
50	\$301.65	\$335.83	34.18	11.3%
75	\$424.40	\$470.83	46.43	10.9%
100	\$547.15	\$605.83	58.68	10.7%
150	\$792.65	\$875.83	83.18	10.5%
200	\$1,038.15	\$1,145.83	107.68	10.4%
250	\$1,283.65	\$1,415.83	132.18	10.3%
300	\$1,529.15	\$1,685.83	156.68	10.2%
350	\$1,774.65	\$1,955.83	181.18	10.2%
400	\$2,020.15	\$2,225.83	205.68	10.2%
450	\$2,265.65	\$2,495.83	230.18	10.2%
500	\$2,511.15	\$2,765.83	254.68	10.1%
550	\$2,756.65	\$3,035.83	279.18	10.1%
600	\$3,002.15	\$3,305.83	303.68	10.1%

<i>Present Rates</i>		<i>Proposed Rates</i>	
Meter Charge	\$/Acct.	Meter Charge	\$/Acct.
2"	\$56.15	2"	\$65.83
Consumption Charge	\$/ CCF	Consumption Charge	\$/ CCF
All Usage	\$4.91	All Usage	\$5.40

City of Rapid City
 Water Rate Analysis
 Rate Schedule
 Irrigation Rates - Alternative 1 Rates

	<i>Present Rates</i>	<i>Proposed</i>				
		2024	2025	2026	2027	2028
Meter Charge	(\$ / Mo.)					
5/8"	\$118.19	--	--	--	--	--
3/4"	138.40	--	--	--	--	--
3/4" & Less	--	\$97.10	\$106.77	\$117.40	\$129.20	\$142.10
1"	181.61	162.16	178.31	196.06	215.76	237.31
1 1/2"	279.86	323.34	355.54	390.94	430.24	473.19
2"	415.08	517.54	569.08	625.74	688.64	757.39
3"	885.30	971.00	1,067.70	1,174.00	1,292.00	1,421.00
4"	1,317.42	1,618.66	1,779.86	1,957.06	2,153.76	2,368.81
6"	2,383.71	3,236.34	3,558.64	3,912.94	4,306.24	4,736.19
8"	3,680.04	5,178.34	5,694.04	6,260.94	6,890.24	7,578.19
Consumption Charge	(\$ / CCF)					
All Usage	\$6.00	\$6.60	\$7.26	\$7.99	\$8.79	\$9.67

City of Rapid City
Water Rate Analysis
Irrigation Rates - 1" Alternative 1
Rates: Year 1 - 2024

Consumption (CCF)	Present Rates	Proposed Rates	Difference	
			\$	%
0	\$181.61	\$162.16	(\$19.45)	-10.7%
5	\$211.61	\$195.16	(16.45)	-7.8%
10	\$241.61	\$228.16	(13.45)	-5.6%
15	\$271.61	\$261.16	(10.45)	-3.8%
20	\$301.61	\$294.16	(7.45)	-2.5%
25	\$331.61	\$327.16	(4.45)	-1.3%
30	\$361.61	\$360.16	(1.45)	-0.4%
40	\$421.61	\$426.16	4.55	1.1%
50	\$481.61	\$492.16	10.55	2.2%
75	\$631.61	\$657.16	25.55	4.0%
100	\$781.61	\$822.16	40.55	5.2%
125	\$931.61	\$987.16	55.55	6.0%
150	\$1,081.61	\$1,152.16	70.55	6.5%
200	\$1,381.61	\$1,482.16	100.55	7.3%
250	\$1,681.61	\$1,812.16	130.55	7.8%

<i>Present Rates</i>		<i>Present Rates</i>	
Meter Charge	\$/Acct.	Meter Charge	\$/Acct.
1"	\$181.61	1"	\$162.16
Consumption Charge	\$/CCF	Consumption Charge	\$/CCF
All Usage	\$6.00	All Use	\$6.60