

**EPA ID#: 0406 System Name: City of Rapid City**

Sampler- Mr Jeff Crockett Work Phone-(605)394-4162  
 Title- Water Superintendent  
 Address- 300 6th Street  
 Rapid City SD 57701

Location- City: Rapid City County: Pennington  
 Service Area- Municipality  
 PWS Owner Type- Local Government  
 Water Supply Type- Groundwater Under the Direct Influence of Surface Water

Population Served- 66,481 Service Connections- 18,551

**Sources for Rapid City**

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	TREAT SITE - #3					Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
02	TREAT SITE - #4				Emergency	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
03	TREAT SITE - JACKSON SPRINGS					Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
04	TREAT SITE - MEADOWBROOK					Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
05	TREAT SITE - GIRL SCOUT				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
06	RAPID CREEK	1960	0000	0000	Emergency	Surface Water	Vulnerable	Treatment At Plant
07	TREAT SITE - #6				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
08	TREAT SITE - #8				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
09	TREAT SITE - #9				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
10	TREAT SITE - #5				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
11	TREAT SITE - #10				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
12	TREAT SITE - #1	1935	1460	10	Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
13	TREAT SITE - #11				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
28	RAPID CREEK WTP				Emergency	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - Polymers Disinfection - Gas Chlorine Filtration - Mixed Media Mixing Device Sedimentation Fluoridation - H2SiF6
29	#1	1935	1460	10	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
30	#3	1937	957	12		Groundwater	Vulnerable	Treatment At Plant
31	#4	1938	1075	12	Emergency	Groundwater	Vulnerable	Treatment At Plant
32	#5	1960	1520	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
33	#6	1991	1250	13	Permanent	Groundwater	Vulnerable	Treatment At Plant

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Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
34	#8	1991	2415	13	Permanent	Groundwater	Vulnerable	Treatment At Plant
35	#9	1991	1051	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
36	#10	1991	1785	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
37	#11	1991	1200	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
38	JACKSON SPRINGS	1943	20		Permanent		Vulnerable	Treatment At Plant
39	MEADOWBROOK GALLERY	1950	20			Groundwater	Vulnerable	Treatment At Plant
40	GIRL SCOUT GALLERY	1960	30		Permanent	Groundwater	Vulnerable	Treatment At Plant
41	WELL #12	2009	1600	13	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
42	TREAT SITE - #12	2009			Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
48	NEW JACKSON SPRINGS WTP	2013			Permanent	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - Alum Soda Ash Disinfection - Hypochlorites Filtration - Carbon Filter Corrosion Control - Caustic Soda Mixing Device Sedimentation Fluoridation - H2SiF6

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**Common Ion Data**

*(All chemical data are reported in milligrams per liter (mg/l) except pH and Langlier Index)*

*Please refer to Private Well Data for more information about these test results.*

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
01	Raw	06/21/88	202	390	8.48	170	0	3	4.0	37.0	22.0	0.05	0.03	1.0	39	207	0	184	0.50	0.1	0.22
01	Raw	06/02/92	402	580	7.41	172	0	5	3.0	64.0	24.0	0.08	0.03	3.0	128	210	0	259	-0.36	0.3	2.14
02	Raw	06/02/92	356	530	7.52	182	0	4	2.0	54.0	25.0	0.05	0.03	2.0	88	222	0	238	-0.30	0.3	0.29
03	Raw	06/03/92	224	380	7.51	156	0	6	3.0	40.0	19.0	0.05	0.03	4.0	232	190	0	178	-0.43	0.4	2.78
04	Raw	06/30/93	570	840	7.33	222	0	17	4.0	113.0	34.0	0.03	0.03	20.0	230	271	0	423	+0.24	1.3	0.26
05	Raw	06/02/92	462	680	7.33	208	0	8	3.0	83.0	28.0	0.05	0.03	11.0	115	254	0	323	-0.25	0.7	2.03
06	Raw	06/27/90	144	410	8.18	160	0	4	3.0	44.0	19.0	0.05	0.03	4.0	46	195	0	188	+0.27	0.1	0.23
10	Raw	06/30/93	146	330	7.62	162	0	5	2.0	35.0	18.0	0.03	0.05	2.0	16	198	0	162	-0.03	0.2	0.34
07	Raw	06/02/92	204	350	7.74	172	0	5	2.0	34.0	19.0	0.05	0.03	3.0	8	210	0	163	-0.27	0.2	0.28
06	Raw	09/09/96	273	378	8.37	142	0	5	2.6	46.3	18.7	0.12	0.02	15.0	57	173	0	193	+0.69	0.2	0.21
06	Raw	08/26/99	245	374	8.13	142	0	5	2.7	45.8	18.0	0.16	0.03	4.5	45	173	0	188	+0.46	0.2	0.21
01	Raw	08/26/99	301	464	7.60	177	0	3	2.5	58.0	23.6	0.31	0.02	3.3	60	216	0	242	+0.11	0.3	1.39
28	Raw	06/27/06	236	404	8.47	161	0	4	2.2	38.9	23.4	0.09	0.01	3.8	39	188	0	193	+0.76	0.5	0.22
09	Raw	04/11/12	220	388	8.01	161	0	7	2.9	41.7	19.5	0.05	0.01	8.9	28	196	0	184	+0.33	0.4	0.25
42	Raw	04/11/12	200	352	8.00	147	0	8	3.0	38.9	16.1	0.05	0.01	5.5	25	179	0	164	+0.25	0.1	0.32
28	Raw	08/26/14	214	364	8.25	157	1	5	2.6	43.4	20.1	0.16	0.06	6.0	32	189	1	191	+0.63	0.0	0.23
Averages			275	451	7.87	168	0	6	2.8	51.1	21.7	0.09	0.03	6.1	74	204	0	217		0.3	0.71

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
01	Treated	06/21/88	164	360	8.03	166	0	4	4.0	41.0	20.0	0.05	0.03	4.0	41	203	0	185	+0.09	0.1	1.51
06	Treated	06/27/90	166	425	7.59	160	0	5	3.0	46.0	20.0	0.05	0.03	6.0	53	195	0	197	-0.31	0.1	1.14
09	Treated	06/30/93	182	360	7.68	156	0	6	3.0	45.0	17.0	0.03	0.03	5.0	29	190	0	183	+0.11	0.3	0.27
08	Treated	06/30/93	152	310	7.67	162	0	3	2.0	41.0	17.0	0.03	0.03	2.0	11	198	0	173	+0.09	0.2	0.32
12	Treated	06/30/93	342	560	7.35	172	0	4	3.0	79.0	24.0	0.03	0.03	3.0	140	210	0	296	+0.09	0.3	2.11
03	Treated	09/09/96	229	338	7.68	149	0	5	2.7	39.8	19.2	0.06	0.02	7.0	26	182	0	178	-0.03	0.3	1.30
04	Treated	09/09/96	733	972	7.38	231	0	15	3.9	138.0	41.1	0.06	0.02	30.0	282	282	0	514	+0.29	1.5	1.30
05	Treated	09/09/96	561	756	7.47	197	0	10	3.4	104.0	32.9	0.12	0.02	20.0	181	240	0	395	+0.22	0.8	1.43
02	Treated	09/09/96	410	540	7.62	180	0	4	2.4	69.8	29.0	0.06	0.02	7.0	123	220	0	294	+0.19	0.5	1.82
10	Treated	09/09/96	215	324	7.78	160	0	3	2.0	40.0	19.2	0.06	0.02	4.0	18	195	0	179	+0.11	0.3	1.27
07	Treated	09/09/96	198	324	7.71	161	0	4	1.8	38.8	19.8	0.06	0.02	5.0	14	196	0	178	+0.04	0.3	1.30
08	Treated	09/09/96	208	324	7.66	160	0	3	1.7	40.6	20.3	0.06	0.02	4.0	16	195	0	185	+0.00	0.2	1.57

Date Of This Report: August 29, 2017

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Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
09	Treated	09/09/96	232	324	7.74	152	0	6	2.6	41.9	17.9	0.06	0.02	7.0	26	185	0	178	+0.06	0.4	1.36
11	Treated	09/09/96	208	324	7.68	162	0	2	1.6	38.9	18.9	0.06	0.02	4.0	11	198	0	175	+0.01	0.3	1.36
13	Treated	09/09/96	217	324	7.83	140	0	7	3.0	39.5	15.1	0.06	0.02	7.0	23	171	0	161	+0.10	0.4	1.41
05	Treated	08/26/99	1060	1310	7.27	230	0	17	4.5	217.0	48.5	0.04	0.02	35.4	469	281	0	741	+0.33	1.5	1.26
04	Treated	08/26/99	569	807	7.50	234	0	13	3.7	110.0	32.8	0.02	0.02	27.7	154	285	0	410	+0.34	1.2	1.01
03	Treated	08/26/99	228	379	7.66	160	0	5	2.9	43.6	17.8	0.02	0.02	6.6	17	195	0	182	+0.02	0.3	1.21
12	Treated	08/26/99	335	489	7.63	156	0	6	2.5	58.2	25.2	0.02	0.02	3.9	88	190	0	249	+0.08	0.3	1.18
02	Treated	08/26/99	397	590	7.49	188	0	4	2.1	73.3	28.5	0.06	0.02	4.1	109	229	0	300	+0.10	0.4	1.55
10	Treated	08/26/99	191	354	7.74	163	0	3	1.8	40.5	19.3	0.05	0.02	2.6	15	199	0	181	+0.09	0.2	1.13
07	Treated	08/26/99	200	350	7.70	166	0	3	1.6	39.4	19.3	0.03	0.02	2.2	13	203	0	178	+0.05	0.2	1.13
08	Treated	08/26/99	190	336	7.75	103	0	2	1.6	39.2	19.1	0.04	0.02	1.7	10	199	0	176	+0.09	0.2	1.17
09	Treated	08/26/99	218	360	7.71	152	0	6	2.6	41.3	17.0	0.07	0.02	6.0	18	185	0	173	+0.03	0.3	1.04
11	Treated	08/26/99	187	339	7.75	162	0	2	1.6	38.9	18.9	0.03	0.02	1.8	10	198	0	175	+0.08	0.2	1.26
13	Treated	08/26/99	202	346	7.73	143	0	7	3.0	39.8	14.9	0.10	0.11	5.4	17	174	0	161	+0.01	0.3	1.14
05	Treated	06/19/03	493	754	7.71	214	0	14	2.9	104.0	28.0	0.05	0.05	28.8	158	261	0	21	+0.53	0.7	1.19
04	Treated	06/19/03	535	825	7.60	214	0	17	2.9	114.0	32.9	0.05	0.05	39.0	183	261	0	22	+0.42	1.3	0.99
09	Treated	06/19/03	209	369	7.72	156	0	6	2.5	38.5	18.1	0.05	0.05	6.3	22	190	0	10	+0.00	0.5	1.18
12	Treated	06/19/03	302	489	7.64	164	0	6	2.5	52.5	26.6	0.05	0.05	5.8	83	199	0	14	+0.07	0.1	1.31
03	Treated	06/19/03	225	386	7.86	163	0	6	2.3	39.9	20.3	0.05	0.05	6.3	22	199	0	11	+0.17	0.5	1.15
02	Treated	06/19/03	413	613	7.66	184	0	5	2.2	71.3	29.4	0.05	0.05	7.3	135	224	0	17	+0.28	0.5	1.10
10	Treated	06/19/03	200	353	7.71	162	0	4	1.8	36.1	19.7	0.05	0.05	5.8	15	197	0	10	+0.00	0.5	0.99
13	Treated	06/19/03	196	342	7.85	148	0	8	2.7	36.3	15.8	0.05	0.05	6.0	18	181	0	9	+0.08	0.5	1.21
07	Treated	06/19/03	198	347	7.81	164	0	5	1.6	34.3	19.7	0.05	0.05	4.0	12	200	0	10	+0.06	0.5	1.20
11	Treated	06/19/03	192	337	7.86	164	0	3	1.4	33.7	19.5	0.05	0.05	4.3	10	201	0	10	+0.10	0.5	1.20
08	Treated	06/19/03	189	334	7.81	161	0	3	1.4	33.5	19.5	0.05	0.05	2.5	12	197	0	10	+0.04	0.5	1.18
28	Treated	06/27/06	218	423	8.15	157	0	4	2.2	40.2	23.8	0.05	0.01	8.8	38	192	0	198	+0.45	0.5	1.17
05	Treated	06/27/06	459	749	7.83	216	0	12	2.9	89.2	28.2	0.05	0.01	21.5	131	264	0	339	+0.61	0.7	0.96
04	Treated	06/27/06	481	791	7.97	209	0	12	2.8	92.7	30.7	0.05	0.01	29.0	149	255	0	358	+0.76	1.1	0.87
12	Treated	06/27/06	301	525	7.88	167	0	5	2.3	54.0	27.2	0.05	0.01	4.3	88	204	0	247	+0.33	0.5	1.03
02	Treated	06/27/06	358	605	8.04	182	0	4	2.0	68.0	28.3	0.05	0.01	6.5	114	222	0	286	+0.63	0.7	1.01
10	Treated	06/27/06	190	365	7.93	167	0	4	1.6	36.4	19.5	0.05	0.01	3.8	17	203	0	171	+0.21	0.5	1.04
07	Treated	06/27/06	184	355	7.98	170	0	4	1.4	35.0	19.4	0.05	0.01	3.5	11	207	0	167	+0.25	0.5	1.07
08	Treated	06/27/06	178	344	8.10	167	0	2	1.3	33.7	18.8	0.05	0.01	1.8	10	204	0	162	+0.35	0.5	0.98
09	Treated	06/27/06	204	391	7.93	165	0	5	2.3	39.5	19.5	0.05	0.01	5.8	23	201	0	179	+0.24	0.5	0.95
11	Treated	06/27/06	161	343	8.23	165	0	2	1.2	34.3	18.8	0.05	0.01	2.0	10	202	0	163	+0.48	0.5	1.09
13	Treated	06/27/06	180	364	8.16	153	0	7	2.6	37.6	16.3	0.05	0.01	6.0	17	187	0	161	+0.42	0.7	0.96
12	Treated	06/24/09	342	519	7.69	168	0	5	2.3	48.9	27.0	0.05	0.01	5.0	85	205	0	233	+0.10	0.5	1.26
42	Treated	06/24/09	218	365	7.84	151	0	8	2.5	36.7	15.6	0.07	0.01	9.3	15	185	0	156	+0.08	0.5	0.86
02	Treated	06/24/09	392	616	7.88	195	0	5	2.1	67.0	31.2	0.05	0.01	4.0	107	238	0	296	+0.49	0.5	0.63
10	Treated	06/24/09	208	368	7.77	169	0	4	1.7	35.7	20.3	0.05	0.01	3.8	13	206	0	173	+0.05	0.5	1.14
07	Treated	06/24/09	207	354	7.72	170	0	4	1.5	33.3	20.2	0.05	0.01	3.8	13	207	0	166	-0.03	0.5	1.01
08	Treated	06/24/09	193	344	7.75	168	0	3	1.3	32.4	19.7	0.05	0.01	2.0	12	205	0	162	-0.02	0.5	0.99
09	Treated	06/24/09	231	400	7.73	165	0	6	2.2	39.1	20.7	0.05	0.01	6.8	23	202	0	183	+0.04	0.6	0.92
11	Treated	06/24/09	198	343	7.78	165	0	3	1.3	33.0	19.6	0.05	0.01	3.0	15	201	0	163	+0.01	0.6	1.05
13	Treated	06/24/09	228	367	7.95	156	0	7	2.5	37.3	17.3	0.07	0.01	7.5	20	191	0	164	+0.21	0.6	0.89
05	Treated	06/24/09	605	923	7.55	225	0	23	3.2	98.7	35.0	0.05	0.01	38.3	173	275	0	391	+0.39	1.1	1.00

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04	Treated	06/24/09	540	914	7.68	222	0	21	3.2	100.0	34.9	0.10	0.01	66.0	137	270	0	393	+0.52	1.6	0.92
05	Treated	04/11/12	553	873	7.70	202	0	20	3.2	125.0	29.9	0.05	0.01	43.0	206	247	0	435	+0.60	0.8	1.05
10	Treated	04/11/12	209	370	7.68	163	0	5	2.3	40.9	19.7	0.05	0.01	4.2	21	198	0	183	+0.00	0.3	1.17
07	Treated	04/11/12	193	353	7.80	163	0	4	1.9	38.6	19.3	0.05	0.01	3.2	14	199	0	176	+0.10	0.4	0.95
09	Treated	04/11/12	219	391	7.76	157	0	7	2.9	42.2	19.7	0.05	0.01	10.2	28	191	0	186	+0.08	0.4	1.09
11	Treated	04/11/12	175	343	7.89	161	0	3	1.8	36.5	19.7	0.05	0.01	2.4	12	197	0	172	+0.16	0.3	1.15
13	Treated	04/11/12	203	368	7.97	137	0	9	3.0	41.5	15.0	0.15	0.02	9.3	24	167	0	165	+0.22	0.1	4.35
42	Treated	04/11/12	212	361	7.86	144	0	9	3.0	39.4	16.1	0.05	0.01	7.9	25	176	0	165	+0.11	0.3	1.15
28	Treated	08/26/14	220	384	7.88	157	0	6	2.5	42.4	19.1	0.05	0.04	8.0	35	192	0	184	+0.23	0.2	1.01
Averages			290	471	7.76	170	0	7	2.4	55.3	22.6	0.05	0.02	9.8	62	209	0	196		0.5	1.18