

City of Rapid City Drinking Water Information

(System Information, Sampling Requirements, and Compliance Report)



Secretary Award For Drinking Water Excellence

Population Served:	72,481	System Population:	66,481
Certified Operator:	Mr Jeff Crockett 300 6th Street Rapid City, SD 57701	Work Phone:	(605)394-4162
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Other Contacts:	Mayor Steve Allender 300 6th Street Rapid City, SD 57701	Work Phone:	
		Home Phone:	
		Cell Phone:	
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		Email:	
Last Inspection:	August 26, 2014		
Type of System:	Community	Area Served:	Pennington County
Number of Service Connections:	18,551	Contamination Risk:	moderate
Water Sold To:			Ellsworth AFB
PWS Owner Type:	Local Government	Service Area:	Municipality
Contract Laboratory:			Midcontinent Laboratory

Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: New Jackson Springs Wtp

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Annually	No	Apr-17		
	B. Arsenic	Annually	No	Apr-17		
	C. Barium	Annually	No	Apr-17		
	D. Beryllium	Annually	No	Apr-17		
	E. Cadmium	Annually	No	Apr-17		
	F. Chromium	Annually	No	Apr-17		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Annually	No	Apr-17		
	J. Nickel	Annually	No	Apr-17		
	K. Selenium	Annually	No	Apr-17		
	L. Thallium	Annually	No	Apr-17		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Apr-17	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Feb-16	2018	
	B. Method 524	Triennially	No	Feb-16	2018	
	C. Method 525	Triennially	No	Feb-16	2018	
	D. Method 531.1	Triennially	No	Feb-16	2018	
	E. Method 547	Triennially	No	Feb-16	2018	
	F. Method 548	Triennially	No	Feb-16	2018	
	G. Method 549	Triennially	No	Feb-16	2018	
5	Nitrate	Annually-2nd Qtr	N/A	Apr-17		
6	Nitrite	Triennially	N/A	Apr-17		

(These values are calculated from available data. Check correspondence for verification.)

Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #12

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	May-12		
	B. Arsenic	Every nine years	Yes	May-12		
	C. Barium	Every nine years	Yes	May-12		
	D. Beryllium	Every nine years	Yes	May-12		
	E. Cadmium	Every nine years	Yes	May-12		
	F. Chromium	Every nine years	Yes	May-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	May-12		
	J. Nickel	Every nine years	Yes	May-12		
	K. Selenium	Every nine years	Yes	May-12		
	L. Thallium	Every nine years	Yes	May-12		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

(These values are calculated from available data. Check correspondence for verification.)

Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #11

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	May-12		
	B. Arsenic	Every nine years	Yes	May-12		
	C. Barium	Every nine years	Yes	May-12		
	D. Beryllium	Every nine years	Yes	May-12		
	E. Cadmium	Every nine years	Yes	May-12		
	F. Chromium	Every nine years	Yes	May-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	May-12		
	J. Nickel	Every nine years	Yes	May-12		
	K. Selenium	Every nine years	Yes	May-12		
	L. Thallium	Every nine years	Yes	May-12		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

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Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #1

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	Aug-12		
	B. Arsenic	Every nine years	Yes	Aug-12		
	C. Barium	Every nine years	Yes	Aug-12		
	D. Beryllium	Every nine years	Yes	Aug-12		
	E. Cadmium	Every nine years	Yes	Aug-12		
	F. Chromium	Every nine years	Yes	Aug-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	Aug-12		
	J. Nickel	Every nine years	Yes	Aug-12		
	K. Selenium	Every nine years	Yes	Aug-12		
	L. Thallium	Every nine years	Yes	Aug-12		
2	Radiological Chemicals	Every six years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

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Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #10

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	May-12		
	B. Arsenic	Every nine years	Yes	May-12		
	C. Barium	Every nine years	Yes	May-12		
	D. Beryllium	Every nine years	Yes	May-12		
	E. Cadmium	Every nine years	Yes	May-12		
	F. Chromium	Every nine years	Yes	May-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	May-12		
	J. Nickel	Every nine years	Yes	May-12		
	K. Selenium	Every nine years	Yes	May-12		
	L. Thallium	Every nine years	Yes	May-12		
2	Radiological Chemicals	Every six years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

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Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #5

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	May-12		
	B. Arsenic	Every nine years	Yes	May-12		
	C. Barium	Every nine years	Yes	May-12		
	D. Beryllium	Every nine years	Yes	May-12		
	E. Cadmium	Every nine years	Yes	May-12		
	F. Chromium	Every nine years	Yes	May-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	May-12		
	J. Nickel	Every nine years	Yes	May-12		
	K. Selenium	Every nine years	Yes	May-12		
	L. Thallium	Every nine years	Yes	May-12		
2	Radiological Chemicals	Every six years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

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Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #9

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	May-12		
	B. Arsenic	Every nine years	Yes	May-12		
	C. Barium	Every nine years	Yes	May-12		
	D. Beryllium	Every nine years	Yes	May-12		
	E. Cadmium	Every nine years	Yes	May-12		
	F. Chromium	Every nine years	Yes	May-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	May-12		
	J. Nickel	Every nine years	Yes	May-12		
	K. Selenium	Every nine years	Yes	May-12		
	L. Thallium	Every nine years	Yes	May-12		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

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Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #8

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	Aug-12		
	B. Arsenic	Every nine years	Yes	Aug-12		
	C. Barium	Every nine years	Yes	Aug-12		
	D. Beryllium	Every nine years	Yes	Aug-12		
	E. Cadmium	Every nine years	Yes	Aug-12		
	F. Chromium	Every nine years	Yes	Aug-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	Aug-12		
	J. Nickel	Every nine years	Yes	Aug-12		
	K. Selenium	Every nine years	Yes	Aug-12		
	L. Thallium	Every nine years	Yes	Aug-12		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

(These values are calculated from available data. Check correspondence for verification.)

Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Well #6

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	Aug-12		
	B. Arsenic	Every nine years	Yes	Aug-12		
	C. Barium	Every nine years	Yes	Aug-12		
	D. Beryllium	Every nine years	Yes	Aug-12		
	E. Cadmium	Every nine years	Yes	Aug-12		
	F. Chromium	Every nine years	Yes	Aug-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	Aug-12		
	J. Nickel	Every nine years	Yes	Aug-12		
	K. Selenium	Every nine years	Yes	Aug-12		
	L. Thallium	Every nine years	Yes	Aug-12		
2	Radiological Chemicals	Triennially	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

(These values are calculated from available data. Check correspondence for verification.)

Monitoring/Reporting - Entry Point

City of Rapid City

EPA ID: 0406

SAMPLING

Entry point: Treat Site - Girl Scout

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	May-12		
	B. Arsenic	Every nine years	Yes	May-12		
	C. Barium	Every nine years	Yes	May-12		
	D. Beryllium	Every nine years	Yes	May-12		
	E. Cadmium	Every nine years	Yes	May-12		
	F. Chromium	Every nine years	Yes	May-12		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride		No			This system fluoridates
	I. Mercury	Every nine years	Yes	May-12		
	J. Nickel	Every nine years	Yes	May-12		
	K. Selenium	Every nine years	Yes	May-12		
	L. Thallium	Every nine years	Yes	May-12		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Jul-15	2018	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-15	2018	
	B. Method 524	Triennially	No	Jul-15	2018	
	C. Method 525	Triennially	No	Jul-15	2018	
	D. Method 531.1	Triennially	No	Jul-15	2018	
	E. Method 547	Triennially	No	Jul-15	2018	
	F. Method 548	Triennially	No	Jul-15	2018	
	G. Method 549	Triennially	No	Jul-15	2018	
5	Nitrate	Annually	N/A	Jul-17		
6	Nitrite	Triennially	N/A	Jul-15		

(These values are calculated from available data. Check correspondence for verification.)

Bacteriological Monitoring

Bacteriological sampling and analysis: January 1, 2017 to January 1, 2018

A	Samples submitted:	<u>960</u>
B	Samples required:	<u>Seventy Samples Each Month.</u>
C	Survey samples:	<u>0</u>
D	Safe samples:	<u>960</u>
E	Unsafe samples:	<u>0</u>
F	Repeat samples:	<u>0</u>
H	Groundwater Samples:	

Lead and Copper Monitoring

(These values are calculated from available data. Check correspondence for verification.)

A	Date Last Tested:	<u>August 24, 2015</u>
B	Samples required:	<u>30</u>
C	Sampling Frequency	<u>Triennially</u>
D	Date Due Next	<u>2018</u>
E	Lead - 90% Level	<u>3</u> Action Level - 15 ug/l
F	Copper 90% Level	<u>0.3</u> Action Level - 1.3 mg/l

Disinfectant Residual Monitoring

Residual sampling and analysis: January 1, 2017 to January 1, 2018

A	Samples submitted:	<u>960</u>
B	Samples required:	<u>Seventy Samples Each Month.</u>
C	Last Qtr Cl Residual:	<u>0.8</u> mg/l
D	Running Annual Average:	<u>0.81</u> mg/l
E	Date of last DBP test:	<u>October 11, 2017</u>
F	THM - Qtr Average:	<u>11.35</u> ug/l
G	Haa5 - Qtr Average:	<u>0</u> ug/l

Asbestos

A	Date of last test:	<u>Waiver - Testing Not Required</u>
B	Asbestos Result:	<u></u> million fibers per liter

Comments

Violations and Significant Deficiencies

City of Rapid City

EPA ID: 0406

Violations From

January 1, 2013

To

January 1, 2018

Violation Type	Parameter	Date	Status
No Violations			

Significant Deficiency	Date Identified	Date Corrected