

EPA ID#: 0270 System Name: Pine Cliff Estates

Sampler- Mr Ed Striebel Work Phone-(605)787-5653
Title- Clearwater Consultin
Address- 7005 Timberline Road
Black Hawk SD 57718

Location- City: Rapid City County: Pennington
Service Area- Homeowners Association
PWS Owner Type- Private Ownership
Water Supply Type- Groundwater Supply

Population Served- 170 Service Connections- 69

Sources for Pine Cliff Estates

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	#1 WEST	1973	32	6	Permanent	Groundwater	Vulnerable	Treatment At Plant
02	#2 EAST	1980	38	8	Permanent	Groundwater	Vulnerable	Treatment At Plant
03	TREAT SITE #1W/#2E				Permanent	Treatment Plant	Non-Vulnerable	Disinfection - Hypochlorites

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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	09/13/93	286	540	7.49	182	0	18	2.0	74.0	18.0	0.05	0.03	44.0	26	222	0	259	+0.17	0.9	0.18
03	Raw	03/26/97	294	580	7.50	212	0	25	3.0	66.0	17.0	0.05	0.03	38.0	23	259	0	235	+0.20	1.0	0.10
03	Raw	04/12/00	242	504	7.35	198	0	17	2.0	62.0	15.0	0.03	0.01	23.0	26	242	0	220	-0.10	1.0	0.20
03	Raw	06/26/03	370	691	7.65	195	0	20	1.7	87.4	22.3	0.05	0.05	87.5	33	238	0	310	+0.38	1.3	0.15
Averages			298	579	7.50	197	0	20	2.2	72.4	18.1	0.05	0.03	48.1	27	240	0	256		1.0	0.16

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
03	Treated	05/17/06	382	666	6.94	195	0	21	2.0	78.5	19.8	0.03	0.02	72.0	34	238	0	277	-0.40	1.5	0.18
03	Treated	04/21/09	341	670	7.65	200	0	28	1.7	68.0	18.0	0.05	0.01	65.0	18	244	0	244	+0.28	1.4	0.18
03	Treated	04/17/12	321	595	7.51	200	0	29	1.9	73.4	17.9	0.05	0.01	47.4	27	244	0	257	+0.17	1.0	0.19
Averages			348	644	7.37	198	0	26	1.9	73.3	18.6	0.04	0.01	61.5	26	242	0	259		1.3	0.18