

Heramosa Water Users Association Drinking Water Information

(System Information, Sampling Requirements, and Compliance Report)

This system is not a candidate for an award:

Operator Certification , Violation

Population Served:	173	System Population:	108
Certified Operator:	Mr Tom Colgan 23912 145th Ave Heramosa, SD 57744	Work Phone:	
		Home Phone:	
		Cell Phone:	
		Fax:	
		Email:	ranchercolgan@yahoo.com
Financial Contact:	Ms Betty Dikoff 24502 Brophy Heramosa, SD 57744	Work Phone:	
		Home Phone:	605-255-4411
		Cell Phone:	
		Fax:	
		Email:	dikofffranch@hotmail.com
Other Contacts:	Mr Fred Matthews 24883 SD Hiway 79 Heramosa, SD 57744	Work Phone:	
		Home Phone:	
		Cell Phone:	
		Fax:	
		Email:	
Last Inspection:	May 9, 2017		
Type of System:	Community	Area Served:	Custer County
Number of Service Connections:	44	Contamination Risk:	moderate
Water Sold To:			Fairburn Water Association
PWS Owner Type:	Local Government	Service Area:	Rural Water System/Colonies
Contract Laboratory:			Midcontinent Laboratory

Monitoring/Reporting - Entry Point

Hermosa Water Users Association

EPA ID: 2180

SAMPLING

Entry point: Treat Site - New West Well

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Every nine years	Yes	Jul-14		
	B. Arsenic	Every nine years	Yes	Jul-14		
	C. Barium	Every nine years	Yes	Jul-14		
	D. Beryllium	Every nine years	Yes	Jul-14		
	E. Cadmium	Every nine years	Yes	Jul-14		
	F. Chromium	Every nine years	Yes	Jul-14		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride	Every nine years	Yes	Jul-14		
	I. Mercury	Every nine years	Yes	Jul-14		
	J. Nickel	Every nine years	Yes	Jul-14		
	K. Selenium	Every nine years	Yes	Jul-14		
	L. Thallium	Every nine years	Yes	Jul-14		
2	Radiological Chemicals	Every nine years	N/A			
3	VOC Chemicals	Quarterly	No	Jun-16	2019	
4	SOC Chemicals					
	A. Method 515.1	Triennially	No	Jul-16	2019	
	B. Method 524	Triennially	No	Jul-16	2019	
	C. Method 525	Triennially	No	Jul-16	2019	
	D. Method 531.1	Triennially	No	Jul-16	2019	
	E. Method 547	Triennially	No	Jul-16	2019	
	F. Method 548	Triennially	No	Jul-16	2019	
	G. Method 549	Triennially	No	Jul-16	2019	
5	Nitrate	Annually	N/A	May-17		
6	Nitrite	Triennially	N/A	May-17		

(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>27</u>
B	Samples required:	<u>One Sample Each Month.</u>
C	Survey samples:	<u>0</u>
D	Safe samples:	<u>15</u>
E	Unsafe samples:	<u>12</u>
F	Repeat samples:	<u>15</u>
H	Groundwater Samples:	

Lead and Copper Monitoring

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

A	Date Last Tested:	<u>June 16, 2016</u>
B	Samples required:	<u>5</u>
C	Sampling Frequency	<u>Triennially</u>
D	Date Due Next	<u>2019</u>
E	Lead - 90% Level	<u>3.5</u> Action Level - 15 ug/l
F	Copper 90% Level	<u>0.095</u> Action Level - 1.3 mg/l

Disinfectant Residual Monitoring

Residual sampling and analysis: to

A	Samples submitted:	<u>No Tests</u>
B	Samples required:	
C	Last Qtr Cl Residual:	<u></u> mg/l
D	Running Annual Average:	<u></u> mg/l
E	Date of last DBP test:	<u>No Tests</u>
F	THM - Qtr Average:	<u></u> ug/l
G	Haa5 - Qtr Average:	<u></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

Hermosa Water Users Association

EPA ID: 2180

Violations From **January 1, 2013** To **January 1, 2018**

Violation Type	Parameter	Date	Status
E. Coli MCL	RTCR	08/01/2017	Public Notice Requested
Routine Sample Monitoring Violation	Total Coliform Bacteria	08/01/2013	Public Notice Requested
	Bacteriological		Compliance Achieved
	Bacteriological		Public Notice Received

Significant Deficiency	Date Identified	Date Corrected

EPA ID#: 2180 System Name: Hermosa Water Users Association

Sampler- Mr Dick Milner Work Phone-
Title- Water Manager
Address- 24667 Whitetail Ridge Rd
Hermosa SD 57744

Location- City: Hermosa County: Custer
Service Area- Other residential areas
PWS Owner Type- Local Government
Water Supply Type- Groundwater Supply

Population Served- 108 Service Connections- 44

Sources for Hermosa Water Users Association

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	EAST WELL	1959	1800	8	Emergency	Groundwater	Non-Vulnerable	No Treatment
02	WEST WELL	1959	1800	8	Emergency	Groundwater	Non-Vulnerable	No Treatment
05	ENTRY PT E & W WELLS				Emergency		Non-Vulnerable	No Treatment
07	TREAT SITE-NEW WEST WELL				Permanent	Treatment Plant	Non-Vulnerable	Corrosion Control - Phosphates
08	NEW WEST WELL	2004	2414	9	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant

EPA ID#: 2180 System Name: Hermosa Water Users Association

Common Ion Data

(All chemical data are reported in milligrams per liter (mg/l) except pH and Langelier 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	Langelier	NO3	F
05	Raw	01/28/98	440	618	7.36	218	0	34	7.0	79.0	21.0	0.10	0.04	7.0	66	266	0	284	+0.03	0.1	0.45
01	Raw	05/15/02	409	662	7.77	215	0	29	7.1	78.5	21.2	0.25	0.05	3.5	136	262	0	16	+0.49	0.1	0.42
05	Raw	02/15/05	355	605	7.79	208	0	14	6.3	79.6	21.4	1.45	0.05	3.3	96	254	0	287	+0.51	0.1	0.40
07	Raw	02/15/05	153	305	8.08	133	0	7	2.2	35.6	10.6	0.07	0.01	7.3	18	163	0	133	+0.25	0.3	0.21
08	Raw	06/11/08	177	315	7.99	137	0	7	2.4	32.9	10.5	0.05	0.01	6.8	14	167	0	125	+0.14	0.3	0.23
08	Raw	10/25/10	157	314	8.08	140	0	9	2.6	35.6	11.0	0.05	0.01	7.3	13	171	0	134	+0.28	0.3	0.21
07	Raw	02/06/14	182	316	8.02	137	0	8	2.9	40.9	11.8	0.00	0.00	10.3	0	167	0	151	+0.27	0.3	0.22
07	Raw	05/09/17	180	322	8.07	141	0	9	3.0	38.2	11.5	0.00	0.00	9.5	12	172	0	142	+0.30	0.3	0.22
Averages			257	432	7.90	166	0	15	4.2	52.5	14.9	0.25	0.02	6.8	44	203	0	159		0.2	0.29

You can contact us by calling or
write us at
24502 Brophy
Hermosa SD 57744

Hermosa Water Users Association

2017 Drinking Water Report

It's your tap water!



EPA ID: 2180



Water Quality

Last year, the Hermosa Water Users Association monitored your drinking water for possible contaminants. This brochure is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies.

Water Source

We serve more than 108 customers an average of 164,000 gallons of water per day. Our water is groundwater that we produce from local wells. The state has performed an assessment of our source water and they have determined that the relative susceptibility rating for the Hermosa Water Users Association public water supply system is medium.

For more information about your water and information on opportunities to participate in public meetings, call and ask for Betty Dikoff.

Additional Information

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

- *Radioactive contaminants*, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants can be obtained by calling the Environment Protection Agency's Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Hermosa Water Users Association public water supply system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Detected Contaminants

The attached table lists all the drinking water contaminants that we detected during the 2017 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 – December 31, 2017. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

Violations

Your system had violations in 2017 and this report is being used as a public notice. Although these incidences were not an emergency, as customers, you have the right to know what happened and what we did to correct the situation. An alternative water supply was never needed and there is nothing you need to do at this time.

Information concerning these violations can be found on the attached Table of Violations. For additional information concerning any violation, please contact us. Please share this information with all the people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and business). You can do this by posting this notice in a public place or distributing copies by hand or by mail.

2017 Table of Detected Contaminants For Hermosa Water Users Association (EPA ID 2180)

Terms and abbreviations used in this table:

- * **Maximum Contaminant Level Goal(MCLG):** the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- * **Maximum Contaminant Level(MCL):** the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- * **Action Level(AL):** the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. For Lead and Copper, 90% of the samples must be below the AL.
- * **Treatment Technique(TT):** A required process intended to reduce the level of a contaminant in drinking water. For turbidity, 95% of samples must be less than 0.3 NTU
- * **Running Annual Average(RAA):** Compliance is calculated using the running annual average of samples from designated monitoring locations.

Units:

- *MFL: million fibers per liter
- *pCi/l: picocuries per liter(a measure of radioactivity)
- *ppt: parts per trillion, or nanograms per liter
- *mrem/year: millirems per year(a measure of radiation absorbed by the body)
- *ppm: parts per million, or milligrams per liter(mg/l)
- *ppq: parts per quadrillion, or picograms per liter
- *NTU: Nephelometric Turbidity Units
- *ppb: parts per billion, or micrograms per liter(ug/l)
- *pspm: positive samples per month

Substance	90% Level	Test Sites > Action Level	Date Tested	Highest Level Allowed (AL)	Ideal Goal	Units	Major Source of Contaminant
Copper	0.1	0	06/16/16	AL=1.3	0	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead	4	0	06/16/16	AL=15	0	ppb	Corrosion of household plumbing systems; erosion of natural deposits.

Substance	Highest Level Detected	Range	Date Tested	Highest Level Allowed (MCL)	Ideal Goal (MCLG)	Units	Major Source of Contaminant
Arsenic	6		07/02/14	10	0	ppb	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Barium	0.090		07/02/14	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fecal Coliform/E.Coli	1			1	0	pspm	Human and animal fecal waste.
Fluoride	0.22		05/09/17	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Nitrate (as Nitrogen)	0.264		05/09/17	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Total Coliform Bacteria	4	positive samples		1	0	pspm	Naturally present in the environment.

Please direct questions regarding this information to Mr Tom Colgan with the Hermosa Water Users Association public water system.

2017 Information on Violations For Hermosa Water Users Association (EPA ID 2180)

(This Drinking Water Report can be used as a Tier III Public Notice if distributed to each customer within 12 months of when the system was notified of the violation.)

Violation Type	Parameter	Date System Notified	Duration In Months	Health Effects Language	Action Taken By Your System
E. Coli MCL	RTCR	08/22/17			Corrective action taken by your system: <input checked="" type="checkbox"/> We have since completed the required compliance measures. <input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future. <input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations. <input type="checkbox"/> Other(specify)_____

For additional information concerning any violation please contact Mr Tom Colgan with the Hermosa Water Users Association public water system.