

Dakota Dunes CID

Drinking Water Report

Water Quality



Secretary's Award

The Dakota Dunes CID has supplied twenty-five consecutive years of safe drinking water to the public it serves and has been awarded the Secretary's Award for Drinking Water Excellence by the South Dakota Department of Agriculture and Natural Resources. This report 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 4,000 customers an average of 955,000 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 Dakota Dunes CID public water supply system is low.

For more information about your water and information on opportunities to participate in public meetings, call (605)232-4211 and ask for Katelyn Irby.

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 EPA has requested that all public water systems perform an inventory to determine those households served by a lead service line. Contact us for more information about the Lead Service Line Inventory. The Dakota Dunes CID 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 2025 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, 2025. 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.

The Dakota Dunes CID public water system purchases 1.6% of their water from Iowa.

2025 Table of Detected Regulated Contaminants For Dakota Dunes CID (EPA ID 2093)

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	0.4	0	09/03/25	AL=1.3	0	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead	4	0	09/04/25	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
Alpha emitters	4	ND - 4	07/05/22	15	0	pCi/l	Erosion of natural deposits.
Barium	0.0163	0.0163 - 0.0163	10/31/22	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Chromium	0.41	0.41 - 0.41	10/31/22	100	100	ppb	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride	1.69	0.76 - 1.69	12/16/25	4	<4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Haloacetic Acids (RAA)	10.2		09/02/25	60	0	ppb	By-product of drinking water chlorination. Results are reported as a running annual average of test results.
Nitrate (as Nitrogen)	0.2		10/14/25	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Selenium	0.75	0.75 - 0.75	10/31/22	50	50	ppb	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
Total trihalomethanes (RAA)	57.1		09/02/25	80	0	ppb	By-product of drinking water chlorination. Results are reported as a running annual average of test results.

Substance	Highest Level Detected	Range	Date Tested	Highest Level Allowed (MCL)	Ideal Goal (MCLG)	Units	Major Source of Contaminant
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Please direct questions regarding this information to Mr Pat Freeman with the Dakota Dunes CID public water system at (605)232-4211.

2025 WATER QUALITY REPORT FOR SIOUX CITY WATER SUPPLY

GENERAL INFORMATION

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 posed a health risk. More information about contaminants or 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 are available from the 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. SIOUX CITY WATER SUPPLY 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>.

SOURCE WATER ASSESSMENT INFORMATION

This water supply obtains its water from the sand and gravel of the Alluvial aquifer. The Alluvial aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Alluvial wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources and is available from the Water Operator at 712-224-5010.

This water supply obtains its water from the sand and gravel and sandstone of the Alluvial-Dakota aquifer. The Alluvial-Dakota aquifer was determined to be highly susceptible to contamination because the characteristics of the aquifer and overlying materials provide little protection from contamination at the land surface. The Alluvial-Dakota wells will be highly susceptible to surface contaminants such as leaking underground storage tanks, contaminant spills, and excess fertilizer application. A detailed evaluation of your source water was completed by the Iowa Department of Natural Resources and is available from the Water Operator at 712-224-5010.

This water supply obtains water from one or more surface waters. Surface water sources are susceptible to sources of contamination within the drainage basin.

Surface Water Name	Susceptibility
Missouri River	high

OTHER INFORMATION

Turbidity is an indicator of treatment filter performance and is regulated as a treatment technique.

CONTACT INFORMATION

For questions regarding this information please contact SIOUX CITY WATER SUPPLY at 712-224-5010.

The table below shows the primary contaminants found in our drinking water in 2025. All of the regulated substances in our drinking water were well within the limits EPA has set to ensure the safety of tap water. Sioux City tested for many health-related contaminants in addition to those included in the table. No other regulated contaminants were detected in our treated water.

2025 Water Quality Data-Primary (Health-Related) Contaminants Zenith Water Plant

Regulated

Contaminants

Microbiological Contaminants	Detected Amount	Range	MCL	MCLG	Units	Possible Sources of Contaminants	Notes
Turbidity	0.54	.022- 540	MCLG	N/A	NTU	Soil Runoff.	99.99% below 0.3 NTU
Inorganic & Organic Compounds							
Arsenic	1	N/A	10	0	ppb	Erosion of natural deposits Runoff from orchards Runoff from glass and electronic production wastes	
Sodium (A)	60	N/A	N/A	N/A	ppm	Erosion of natural deposits. Added to water during treatment process	
Nitrate	0.49	N/A	N/A	10	ppm	Erosion of natural deposits and runoff	
Total Organic Carbon - Average % Removed	6.13	(0- 15.38)	TT	N/A		Naturally present in the environment	
Barium	0.05		2	2	ppm	Discharge from metal refineries	
Disinfection							
Total Trihalomethanes	69	(55-81)	80	N/A	ppb	By-product of drinking water disinfection	
Total Haloacetic Acids	26	(17-40)	60	N/A	ppb	By-product of drinking water disinfection	
Disinfectant							
Chlorine (Cl2)	3.36	1.14-3.36	4	4	ppm	Water additive used to control microbes	
Radiochemical Contaminants							
Alpha Emitters	5.5		15	0	pCi/L	Erosion of natural deposits	
Combined Radium	1.5		5	0	pCi/L	Erosion of natural deposits	
Cryptosporidium	No detects in previous sampling						
Giardia	No detects in previous sampling						
PFOA	0.004	N/A	0.004	N/A	ng/l	Samples taken by IDNR for UCMR #5	
PFOS	0.004	N/A	0.02	N/A	ng/l	Samples taken by IDNR for UCMR #5	
Lead & Copper							
	Action Level	90th Percentile			Units	Possible Sources of Contaminants	
Lead (B)	2	(ND - 5)			ppb	Corrosion of household plumbing systems	
Copper	0.58	(ND - 2.0)			ppm	Corrosion of household plumbing systems	1 Sample exceeded AL

(A) There is not a federal or state standard for sodium. Monitoring is required to provide information to consumers that are concerned about sodium intake due to dietary precautions. While our water is relatively low in sodium, water softeners that use Sodium raises the level considerably. If you are cutting back on sodium, try attaching your water softener to only hot water lines, or not attaching the kitchen faucet to the softener.

(B) 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 Sioux City Water Plant 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 request 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>.

Key to the Water Quality Table

AL-Action Level. The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

Disinfection By-Products-Compounds formed when the chlorine added to water reacts with the natural organic material in water.

MCL-Maximum Contaminant Level. The highest level of a contaminant that is legally allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

MCLG-Maximum Contaminant Level goal. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

MRDL-Maximum Residual Disinfectant Level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a Disinfectant is necessary for control of microbial contaminants

MRDLG-The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NA-Not applicable.

NTU-Nephelometric Turbidity Units. Measurement of the cloudiness of water.

PC/L-Picrouries per Liter. Measurement of the radioactivity in water.

PPB-Parts per billion. Equal to one microgram per liter (ug/L), or the equivalent of one cent in \$10,000,000.

PPM-Parts per million. Equal to one milligram per liter (mg/L), or the equivalent of one cent in \$10,000.

Radiochemical Contaminants-Elements that undergo a process of natural decay during which they emit radiation such as alpha emitters.

Total Coliforms- Group of bacteria which are not harmful themselves but, if present in water, may indicate contamination with other harmful bacteria.

TT-Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.

Turbidity-Refers to the cloudiness of water caused by substances such as iron, silt or algae. While turbidity itself has no health effects, high turbidity could interfere with the disinfection of water, or could indicated problems with the filtration system at the water plant.

IDSE-Initial Distribution System Evaluation

2025 Water Quality Data-Primary (Health-Related) Contaminants Southbridge Water Plant

Regulated

Contaminants

Microbiological	Detected	Range	MCL	MCLG	Units	Possible Sources of	Notes
Contaminants	Amount					Contaminants	
Turbidity	0.087	.013-.087	TT/0.5	N/A	NTU	Soil Runoff.	99.99% below 0.1 NTU
Inorganic & Organic							
Compounds							
Fluoride	0.76	.45-.98	4	4	ppm	See Sources of Contaminants above	
Sodium (A)	70	N/A	N/A	N/A	ppm	Erosion of natural deposits.	
Dalapon	0.3	N/A	200	200	ppb	Runoff of herbicide used on rights of way	
Barium	0.05		2	2	ppm	Discharge from metal refineries	
Contaminants							
Cryptosporidium	No detects in previous sampling						
Giardia	No detects in previous sampling						
Disinfectant	Detected	Range	MRDL	MRDLG	Units	Possible Sources of	Notes
Chlorine (Cl2)	3.11	1.16-3.11	4	4	ppm	Water additive used to control microbes	
Radiochemical	Detected	Range	MCL	MCLG	Units	Possible Sources of	Notes
Contaminants	Amount					Contaminants	
Alpha Emitters	2.2	N/A	15	0	pCi/L	Erosion of natural deposits	
PFOA	8.6	(5.1-8.6)	0.004	N/A	ng/l	Samples taken by IDNR as a special sampling project	
PFOS	6.9	(6.5-6.9)	0.02	N/A	ng/l	Samples taken by IDNR as a special sampling project	

2025 Water Quality Data-Primary (Health-Related) Contaminants Distribution System

Regulated

Contaminants

Disinfectant	Detected	Range	MRDL	MRDLG	Units	Possible Sources of Contaminants	Notes
Chlorine (Cl2)	1.6	(0.03-4.0)	4	4	ppm	Water additive used to control microbes	
Total Coliform Bacteria	1	N/A	N/A	RTCR	TT	***See Note Below	One positive sample

***Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other waterborne pathogens may be present, or that a potential pathway exists through which contamination may enter the drinking water