

**Sioux Falls Water Division  
Big Sioux River Water Quality 2019**

Parameter	Concentration		
	Average mg/L	Minimum mg/L	Maximum mg/L
Alkalinity, as CaCO <sub>3</sub>	295	77	354
Ammonia, as NH <sub>3</sub> -N	0.07	BDL	0.28
Calcium Hardness, as CaCO <sub>3</sub>	298	94	660
Chloride	19	4	31
Fluoride	0.38	0.23	0.49
Total Hardness, as CaCO <sub>3</sub>	551	152	750
Iron	0.31	0.11	3.31
Magnesium Hardness, as CaCO <sub>3</sub>	255	58	376
Manganese	0.14	0.04	1.00
Nickel	BDL	BDL	0.01
Nitrate, as Nitrogen	2.2	0.1	5.1
pH, units	8.0	7.3	8.5
Sulfate	287	38	451
Total Dissolved Solids	700	202	1033
Total Organic Carbon	12.2	6.8	18
Total Phosphate	0.9	0.2	1.8
Turbidity, NTU	18	3.0	108
Temperature, C	13	0.1	29.4
UV-254, CM <sup>-1</sup>	0.21	0.09	0.35
Zinc	BDL	BDL	0.12

**Notes:**

Samples collected Jan 1 to March 12, 2019 and June 1 to November 12, 2019

mg/L = milligrams per liter (parts per million)

µg/L = micrograms per liter (parts per billion)

NTU = Nephelometric Turbidity units. Measure of the suspended material in the water

C = Degrees Celcius

CaCO<sub>3</sub> = Calcium carbonate

BDL = Below detection limit