

**Sioux Falls Water Division  
Big Sioux River Water Quality 2020**

Parameter	Concentration		
	Average mg/L	Minimum mg/L	Maximum mg/L
Alkalinity, as CaCO <sub>3</sub>	261	173	316
Ammonia, as NH <sub>3</sub> -N	0.02	BDL	0.21
Calcium Hardness, as CaCO <sub>3</sub>	271	168	388
Chloride	23	17	90
Fluoride	0.37	0.28	0.48
Total Hardness, as CaCO <sub>3</sub>	549	446	657
Iron	0.58	0.02	2.08
Magnesium Hardness, as CaCO <sub>3</sub>	278	142	356
Manganese	0.28	0.01	1.02
Nickel	BDL	BDL	0.01
Nitrate, as Nitrogen	0.9	0.0	2.4
pH, units	8.3	7.9	8.7
Sulfate	344	199	413
Total Dissolved Solids	674	568	1029
Total Organic Carbon	9.9	7.0	27
Total Phosphate	0.7	0.3	1.0
Turbidity, NTU	32	7.7	141
Temperature, C	21	10.0	29.1
UV-254, CM <sup>-1</sup>	0.165	0.132	0.194
Zinc	BDL	BDL	0.03

**Notes:**

Samples collected from April 21, 2020 to September 30, 2020

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