

UW OSHKOSH ENVIROMENTAL RESEARCH AND INNOVATION CENTER

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Analytical Report

Sample Information			Field Parameters						Lab Analysis Results						
Sample Date	Sample Time	Sample Location (Michigan St, Cedar Crossing, or Utah Rd)	Water Temp (C)	pH	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Weather Conditions	Total Coliform Result (MPN/100mL)	<i>E. Coli</i> Result (MPN/100 mL)	ERIC Sample ID	Total Phosphorus (TP) (mg/L)	Soluble Reactive Phosphorus (SRP) (mg/L)	Nitrate (mg/L)	Total Kjeldahl Nitrogen (TKN) (mg/L)
6/25/2021	1:00 PM	Utah rd	No data	8.4	4.84	No data	No data		>2419.6	73.3	B9803, B9804	0.10	No data	0.17	1.8
7/15/2021	1:22 PM	Utah rd	18.01	7.67	0	0.22	9.29	sunny	>2419.6	100.5	B9977, B9978	0.085	0.025	[0.036]	1.0
7/15/2021	1:40 PM	Cedar crossing	19.97	7.97	1.56	0.19	9.58	sunny	>2419.6	>2419.6	B9975, B9976	0.15	0.056	Not detected	1.7
7/15/2021	2:05 PM	Michigan St.	19.67	7.94	1.57	0.19	9.62	sunny	>2419.6	>2419.6	B9979, B9980	0.14	0.061	Not detected	1.5
7/26/2021	12:46 PM	Utah rd	22.7	6.86	No data	0.21	7.5	sunny	>2419.6	88.2	B10046, B10047	0.17	[0.017]	Not detected	4.2
7/26/2021	1:00 PM	cedar crossing	21.72	8.11	No data	0.21	7.01	sunny	>2419.6	344.8	B10050, B10051	0.11	0.070	Not detected	2.3
7/26/2021	1:15 PM	Michigan St.	22.19	8.17	No data	0.2	6.74	sunny	>2419.6	517.2	B10048, B10049	0.13	0.085	Not detected	1.5
8/11/2021	11:44 AM	Michigan St.	21.15	7.29	No data	0.27	2.71	sunny	>2419.6	184.2	B10239, B10240	0.072	0.046	[0.090]	1.2
8/11/2021	11:49 AM	Utah rd	16.71	7.91	No data	0.33	3.41	sunny	>2419.6	29.2	B10241, B10242	Not detected	Not detected	0.27	[0.46]
8/11/2021	11:56 AM	cedar crossing	20.54	8.13	No data	0.29	3	sunny	>2419.6	89.1	B10237, B10238	[0.034]	[0.012]	0.47	0.87
8/25/2021	1:00 PM	Utah rd	16.46	8.08	0	0.31	3.35	sunny	2419.6	21.6	B10324, B10327	0.022	Not detected	0.37	1.2
8/25/2021	12:49 PM	cedar crossing	13.4	7.41	0	0.31	2.98	sunny	>2419.6	191.8	B10326, B10329	0.035	[0.017]	0.15	1.2
8/25/2021	1:13 PM	Michigan St.	26.14	7.89	13.2	0.33	2.88	sunny	>2419.6	47.9	B10325, B10328	0.569	0.17	1.2	4.5

Terms:

pH - measure of hydrogen ion concentration, ideally between 6.5-9 for freshwater

Turbidity - relative clarity of water, ideally less than 15 NTU

Electrical Conductivity - ability to conduct an electrical current, affected by presence of inorganic dissolved solids, ideally between 0.15 and 0.5 mS/cm

Dissolved Oxygen - measure of how much oxygen is dissolved in water (amount available for aquatic organisms), ideally over 3 mg/L to support life

Total Coliform bacteria - indicator of presence of fecal contamination, widely distributed in nature, lower levels indicate less bacteria

E. coli bacteria - found in intestines of people and animals (fecal bacteria), some strains can cause illness, lower levels indicate less bacteria

Total Phosphorus - measure of all forms of phosphorus, WI DNR criterion of 75 ug/L (0.075 mg/L) for most streams

Soluble Reactive Phosphorus - form of phosphorus directly available for plant uptake, WI DNR criterion of 75 ug/L (0.075 mg/L) for most streams

Nitrate - an essential plant nutrient, but in excess amounts can cause increased aquatic plant growth, ideally less than 1.0 mg/L

Total Kjeldahl Nitrogen - the sum of organic nitrogen, high levels can indicate organic or fecal waste discharge, levels below 1.0 mg/L are ideal