

Client: Crossroads at Big Creek
Report to: Nick Lutzke

*Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation".

ND = Not Detected (< LOD)

IP = In progress

Not Requested

Analytical Results

Sample Information				Lab Analysis Results							Field Parameters							
Sample Location (Michigan St, Cedar Crossing, or Utah Rd)	ERIC Sample ID	Date Collected	Time Collected	Total Coliform Result (MPN/100mL)	E Coli Result (MPN/100mL)	SRP	Total Phosphorus	TKN (mg/L)	Nitrate (mg/L)	Total Nitrogen (mg/L)	Water Temp (C)	pH	Turbidity (NTU)	Electrical Conductivity (mS/cm)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Weather Conditions	Notes
Michigan Street	B11493, B11518	6/15/2022	3:15 PM	344.1	56.5	0.02	[0.033]				21.12	8.17	27.2	0.603	88.6	7	sunny/dry/windy	
Utah Rd	B11494, B11519	6/15/2022	4:10 PM	913.9	148.3	ND	[0.021]				18.76	8.06	29.1	0.672	74.7	5.79	sunny/dry/windy	
Cedar Crossing	B11495, B11520	6/15/2022	3:55 PM	396.8	53.6	ND	ND				21.13	8.18	28.1	0.623	88.8	6.55	sunny/dry/windy	
Michigan Street	B11658, B11661	6/29/2022	1:22 PM	1011.2	98.7	0.08	0.08				22.97	8.49	26.6	0.576	79.4	6	sunny/dry	
Cedar Crossing	B11659, B11662	6/29/2022	1:40 PM	549.3	90.9	0.02	[0.029]				23.01	8.5	26.5	0.581	79.3	5.69	sunny/dry	
Utah Rd	B11660, B11663	6/29/2022	1:57 PM	436	86.5	[0.017]	[0.024]				21.04	8.49	26.6	0.579	79.3	6.01	sunny/dry	
Michigan Street	B11783, B11784	7/13/2022	2:00 PM	379.3	160.2	0.026	ND				24.11	8.36	25.3	0.597	81.5	7.3	sunny/dry	
Cedar Crossing	B11785, B11786	7/13/2022	2:10 PM	210.5	48.4	0.027	[0.025]				23.29	8.35	25.6	0.588	81.5	6.05	sunny/dry	
Utah Rd	B11787, B11788	7/13/2022	2:24 PM	1011.2	132	[0.017]	[0.025]				24.03	8.35	25.5	0.594	81.3	6.47	sunny/dry	
Cedar Crossing	B11958, B11959	7/27/2022	10:32 AM	1011.2	313	[0.011]	[0.022]	[0.257]	3.4	3.657	23.56	8.02	26.1	0.571	86.3	6.58	sunny/dry	
Utah Rd	B11960, B11961	7/27/2022	11:04 AM	913.9	214.2	[0.009]	[0.02]	ND	3.3	3.3	22.03	8.03	26.1	0.579	86.1	5.8	sunny/dry	
Cedar Crossing	B12087, B12089	8/10/2022	10:30 AM	2419.6	25.6	[0.018]	ND	ND	3.7	3.7	24.71	NA	NA	NA	NA	NA	sunny/dry	water levels too low to use hydrolab
Utah Road	B12088, B12090	8/10/2022	10:30 AM	2419.6	21.1	[0.017]	ND	ND	3.8	3.8	23.42	NA	NA	NA	NA	NA	sunny/dry	water levels too low to use hydrolab

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

Reviewed by: *Carmen Thiel*
 Carmen Thiel
 Laboratory
 Manager