

## Year to Date – August 05, 2025

### HLPOA Sampling Results at CR 100 Bridge

#### Biological and Chemical Analysis and Flow Rate in The Cut River

Monthly sampling, analysis and flow measurements were taken from January to August.

	2025							
	14-Jan	11-Feb	19-Mar	16-Apr	14-May	9-Jun	8-Jul	6-Aug
Phosphorous, mgms/l	0.07	0.11	0.09	0.01	n.d.	0.05	0.02	0.075
Nitrate	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Nitrite	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Total Coliforms, cfu/100ml	36.1	3.0	13.4	0.0	38.4	689.3	870.4	1986.0
E-Coliforms, cfu/100ml	10.3	0	4.1	0	0	10.6	13.5	6.3
pH	7.58		6.79	6.38	7.95	7.02	7.62	7.25
Total Dissolved Solids	37		141	186	155	170	195	161
Flow Rate, cfs	33.0	33.5	36.0	62.0	66.5	51.8	49.7	40.8

Notice that all available nitrogen is being consumed by algae and weed growth in the Lake and the Cut River at this point. Phosphorous is almost always present in excess.

\*At 0.05 ml/l level of Phosphorous in a tributary creek or river is considered by the EPA to be a pollution source.

\*\* CFU + Colony forming Units per 100 ml.

Flow rate measurements were made with the assistance of John Davis, John Barta, Nick Newman, and Lily Gorman, Analyses by Raven Laboratories in Roscommon and Midland, Michigan.

Fms 08/25/2025