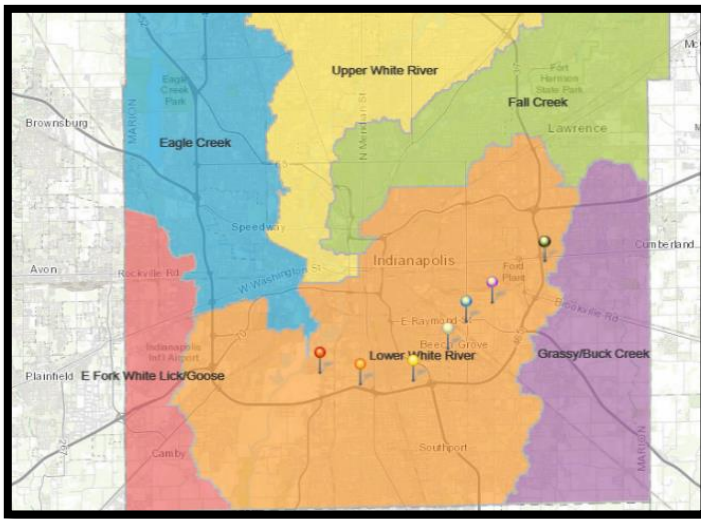


2023 Lick Creek Sampling Summary

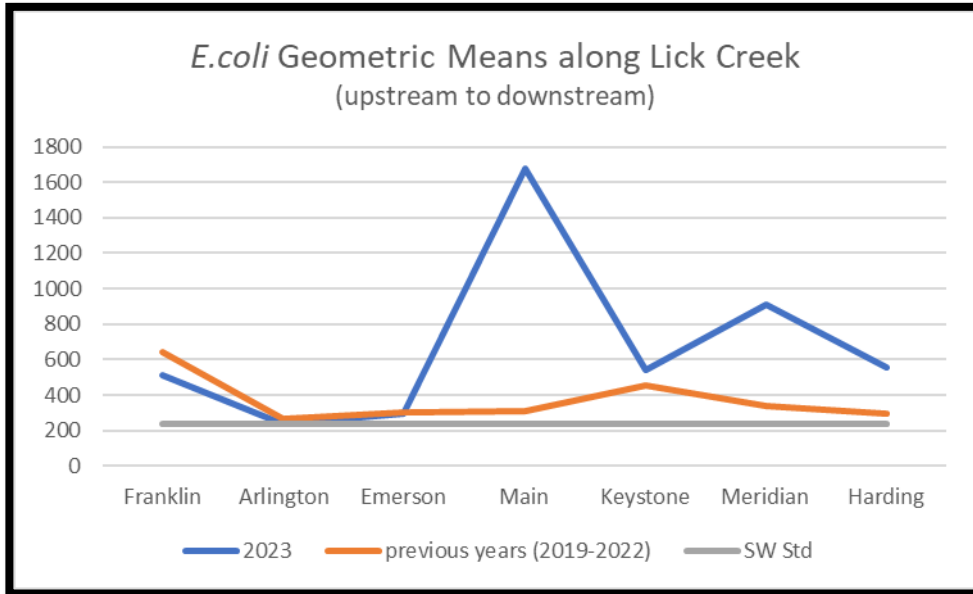
The Lick Creek sampling route includes seven sites located in the Lower White River watershed. These sites are sampled once a month for *E. coli* and three times a year for chemicals. There are currently no sites for macroinvertebrate sampling on this route. Sampling results for 2023 were assessed by looking at trends and applicable surface water quality standards. These water quality standards are based on the Indiana Administrative Code (327 IAC 2-1-6) and parameters are considered “out of range” if the detected level exceeds that determined by the IAC.



SITE NAME	COORDINATES
Lick Creek @ Franklin Rd	39.769680, -86.026249
Lick Creek @ Arlington Ave	39.746819, -86.063829
Lick Creek @ Emerson Ave	39.736023, -86.082626
Lick Creek @ Main St	39.721614, -86.095657
Lick Creek @ Keystone Ave	39.703886, -86.120591
Lick Creek @ Meridian St	39.702099, -86.158224
Lick Creek @ Harding St	39.708401, -86.187166

Ambient *E. coli* Sampling

In 2023, the Lick Creek route was sampled 12 times and included 76 total *E. coli* samples (occasionally samples are unable to be collected due to road closures, bridge construction, frozen stream, etc.). Results are then compared to the recreational surface water standard of 235 MPN/100 ml. Note: this route was added in 2019, so limited data is available for analysis.



SITE	% EXCEED STD (2023)
Franklin	66.7
Arlington	41.7
Emerson	50
Main	81.8
Keystone	66.7
Meridian	75
Harding	66.7

E. coli levels are consistently above the recreational standard, even though this creek is not located within the Combined Sewer Area. Previous investigations upstream of Franklin Rd determined source is likely runoff from rain events. Limited stream walk was conducted near Main St due to spike in levels, nothing observed in dry weather. As a result, plan to sample 2x/month in 2024.

Ambient Chemical Sampling

Chemical samples were collected in March, July, and November at all seven sites. During 2023, the only chemicals that were present above IAC standards were Ammonia, and Copper was high at three sites during December sampling. Sources of Ammonia include sewage influence, animal waste and fertilizers.

Surface Water Parameter	Occurrences of Out of Range Values, 2023	% of Samples Out of Range, 2023
Chloride	0	0
Ammonia	5	24
VOCs	0	0
Heavy Metals	3	14