



30 June 2020

Sina Parks
Montgomery County SWCD
2036 E Lebanon Road
Crawfordsville, Indiana 47933

Dear Sina:

Over the past month, we collected stormwater runoff samples at our 13 watershed stream sites and the reference site. The following provides an overview of our findings. More details will be provided as we continue to dig into these data and what they mean for the West Fork-Sugar Creek Watershed.

- All sites exceeded the nitrate-nitrogen concentration suggested as a target for warmwater wadeable streams by the Ohio EPA (1 mg/L); however, no site exceeded the nitrate-nitrogen concentration at which eutrophication of streams occurs (2 mg/L; Dodds et al). Concentrations ranged from 1.16 mg/L at Site 7 to 1.88 mg/L at Site 5.
- 6 sites exceeded water quality targets for total phosphorus (0.08 mg/L, Dodds et al) at which eutrophication can occur. Concentrations ranged from 0.11 mg/L at Site 2 and 12 to 0.28 mg/L at Site 9.
- Total suspended solids concentration exceeded targets (15 mg/L) at 5 of 14 sites with concentrations ranging from 16.2 mg/L at Site 11 to 77.2 mg/L at Site 12.
- E. coli concentrations exceeded state standards (235 col/100 ml) at all sites with concentrations ranging from 435 col/100 ml at site 5 to 2420 at Sites 1, 3, 4, 6, 9, 10, 11 and 13. Note that this is the top concentration provided by the lab – concentrations may be higher but due to dilution factors, this is the highest concentration that the lab can report.

Over the next few months, we will continue to build the watershed inventory, complete mapping of the field inventory conducted in early May, review the historic water quality data in more detail and schedule the first public meeting as conditions allow.

Documentation of in-kind services: The Montgomery SWCD is reviewing water quality data and working on options for the first public meeting.

Sincerely,

Sara Peel, CLM



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