



**August 11, 2018**

**is our next sampling date**

Reminder to contact [Lynn](#) 513-615-2538 or [Teresa](#) 513-706-8991 if you cannot sample.

## Sampling Reminders

- Keep the cooler lid closed as much as possible
- Remember to grab bottles for the following month. It's always helpful to have a spare bottle in case one accidentally jumps into the creek.
- Provide labels that say dry, or too low to sample, if that is the case.
- Remember to sign in your samples in the lock box then place your sample in the cooler.
- Please mark the time and date on your labels of when you collected the sample. None of the sample times should be the same unless you are a time traveler.
- Sign your sample into the cooler with the drop off time.
- **Duplicate samples** - when you sign them into the cooler, put the number "2" next to the sample ID.
- **Duplicate samples** - use the month that is on the label. Remember to talk to Teresa if you will be out of town that month and she can switch dates for you.



## Kayak Trip Details

[Please RSVP](#)

**August 18**

**10 am**

**Location:** Meet in Middletown at Jimco's new location, within Spoken Bicycles 1201 Central Avenue, Middletown, OH 45044.

**River Section:** After speaking to Jim from Jimco's, he suggested we move to the next section upstream from last year and go from West Carrollton to Miamisburg. See river section from 71.7 to 64.0 <https://www.mcdwater.org/wp-content/uploads/2017/05/GMR-WebMap-2017e.pdf>. He said both the put in and take out are extremely easy, and there are no dams. He said the 8 mile section should take about 3 hours on the water.

**Sign Up:** Please [email me ASAP](#) if you would like to attend. Let me know how many people, if your family members are coming.

Thank you to the Butler County Stormwater District for funding this event for all of our awesome volunteers.

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## You're Invited!

**Butler Soil and Water Conservation District  
is Having their Annual Open House and  
Supervisor Elections**

**Tuesday, August 28**

**4 - 6 pm**

**At Butler SWCD, 1802 Princeton Rd, Hamilton.**

Meet the staff and board, eat free food, vote for the board of supervisors, and stay for our Conservation Awards at 6 pm. Find out more about the candidates and voter eligibility at

[www.butlerswcd.org/elections](http://www.butlerswcd.org/elections).





## Macro Spotlight: Crayfish (Decopoda)

There are very few aquatic invertebrates that live in the state of Ohio. One fairly common one though is the crayfish. You have probably heard them be called by a lot of different names including crawfish, crawdads, and mini lobsters. Even though they look like lobsters there not but they are closely related to one another. There are twenty one known species of crayfish in Ohio. All of Ohio's crayfish live in fresh water and they are usually a sign of good water quality where ever they live. They are most active at night but during the day you can find them hiding under rocks and logs. If you do find one though be careful because they will pinch you and could cause nerve damage or make you bleed. There are very specific ways you should pick them up if you do find one so you won't be pinched.

There are a couple of ways to identify crayfish one way is by looking at its body structure a crayfish has a head connected to its midsection and a segmented body. Crayfish also have an outer shell which is a jointed outer skeleton that provides the crayfish with protection. They will also have four pairs of walking legs and two sensory antennas that help the crayfish touch and feel things. In addition crayfish also have 5 swimmerets or pleopods that are found under their abdomens that help them move under water. Crayfish also have one claw that they will use to protect themselves, attack prey, or defend themselves against predators. Also, crayfish will usually grow to be at least three inches long. Lastly they will be harder to identify by color because they come in a multitude of different colors including yellow, green, dark brown, etc...

Crayfish are usually mature enough for mating early in their lives and mating will take place during the fall season. Although the ovulation and fertilization of the females eggs will be delayed until the following spring. All of the hundreds of eggs will attach to the females swimmerets and then will hatch anywhere between two to twenty weeks later. The new born crayfish will stay with their mothers until their second molting and then they will become independent of their mothers.

A good look at the body structure of a crayfish

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## Water News

**No “silver bullet” to improving Great Miami River water quality**

<https://mcdwater.blog/2018/08/01/no-silver-bullet-to-improving-great-miami-river-water-quality/>

**Rebuilding the tree of life of freshwater macroinvertebrates in the European continent**

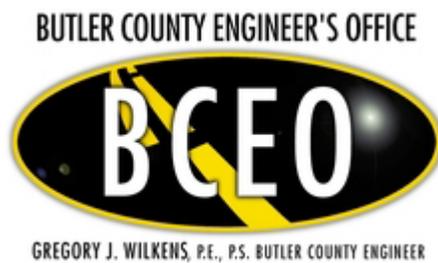
<https://www.sciencedaily.com/releases/2018/08/180803103308.htm>

**Why Does Rain Smell So Good?**

<https://www.bbc.co.uk/news/science-environment-44904298>

**Northern Ohio:Local groundwater targeted for sale by Ohio company**

[http://www.fwbusiness.com/news/latest/businessweekly/article\\_6499aa98-f043-5aea-bd60-d20ab6abe6a9.html](http://www.fwbusiness.com/news/latest/businessweekly/article_6499aa98-f043-5aea-bd60-d20ab6abe6a9.html)



## Multiple Roads Closed

Yes, we are in the wonderful orange barrel season. If you don't typically drive your sampling route, unless its sampling Saturday, you may want to check to see if your roads are open.

<http://www.bceo.org/roadclosings.html>



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