

Monthly Quality Update October 2020



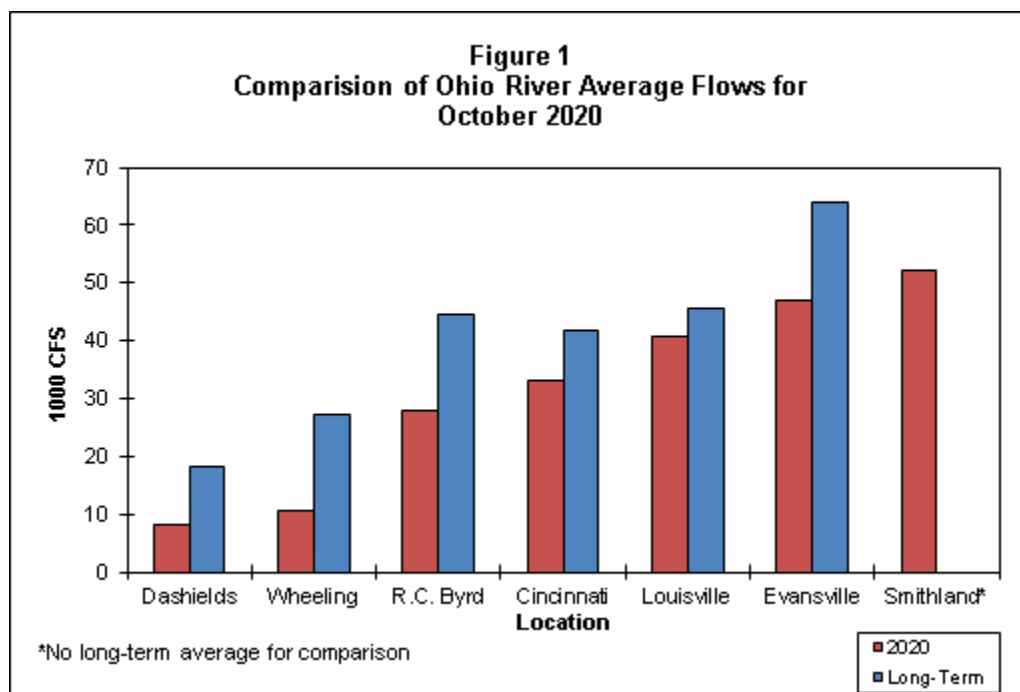
**OHIO RIVER VALLEY
WATER SANITATION COMMISSION**

5735 Kellogg Avenue, Cincinnati, Ohio 45230

(513) 231-7719 Fax (513) 231-7761

Flows

Average flows at seven Ohio River locations are displayed below. At each location the October 2020 average flow (red bar) is contrasted with the long-term average monthly flow (blue bar). Flows were significantly higher at all locations during the month of October.



Bacteria

The bacteria monitoring results from five of the six Ohio River locations in October are in the attached graphs. Due to the current Covid-19 pandemic, Pittsburgh is unable to sample. ORSANCO's water quality criteria for the protection of human health during the contact recreation season are:

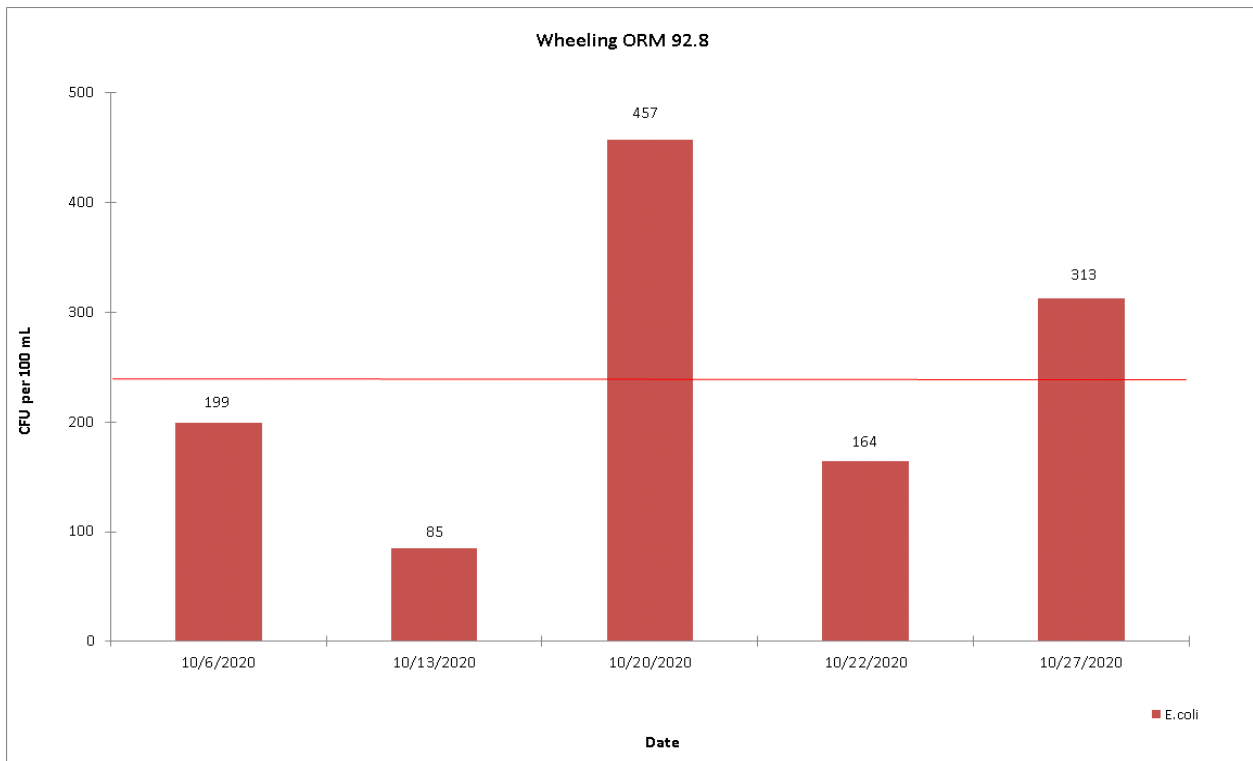
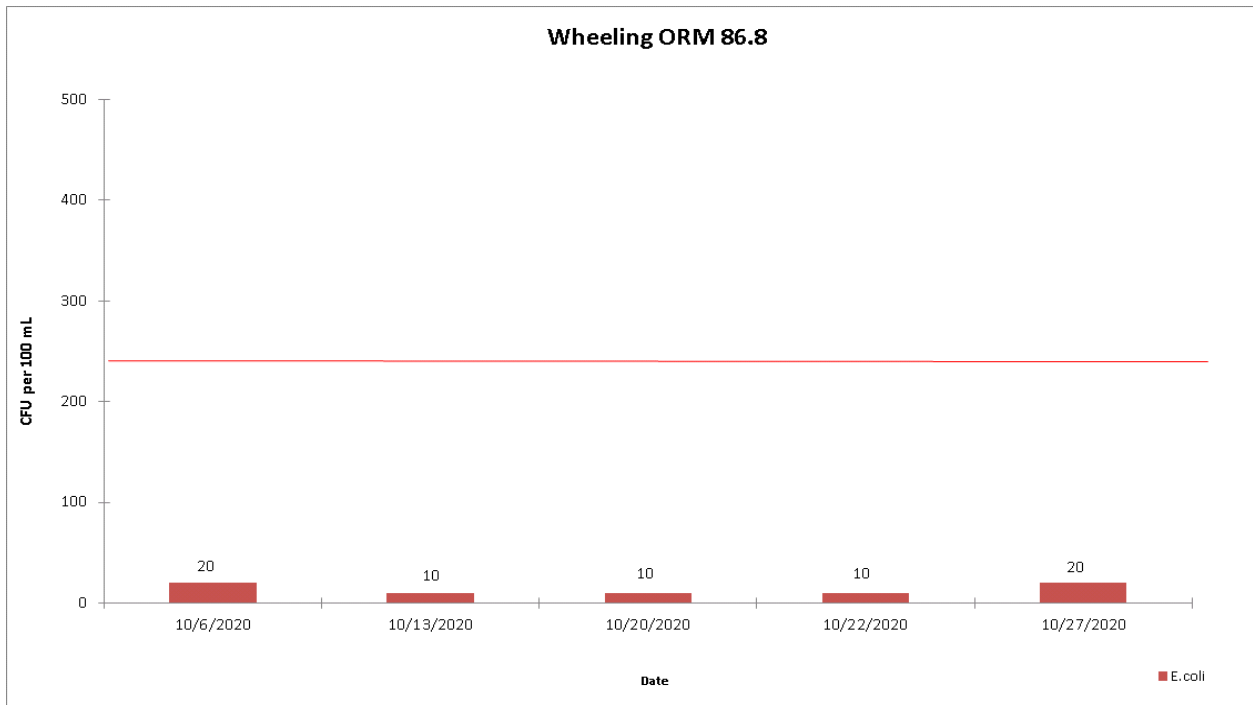
- *E. coli* count is not to exceed 240 CFU/100mL in more than 25 percent of samples. (*E. coli* is shown with a red line on the graph.)
- *E. coli* shall not exceed 130 CFU/100mL as a 90-day geometric mean, based on not less than five samples per month.

ORSANCO's water quality criteria for the protection of public water supply year round are:

- Fecal Coliform shall not exceed 2,000/100mL as a monthly geometric mean based on not less than five samples per month.

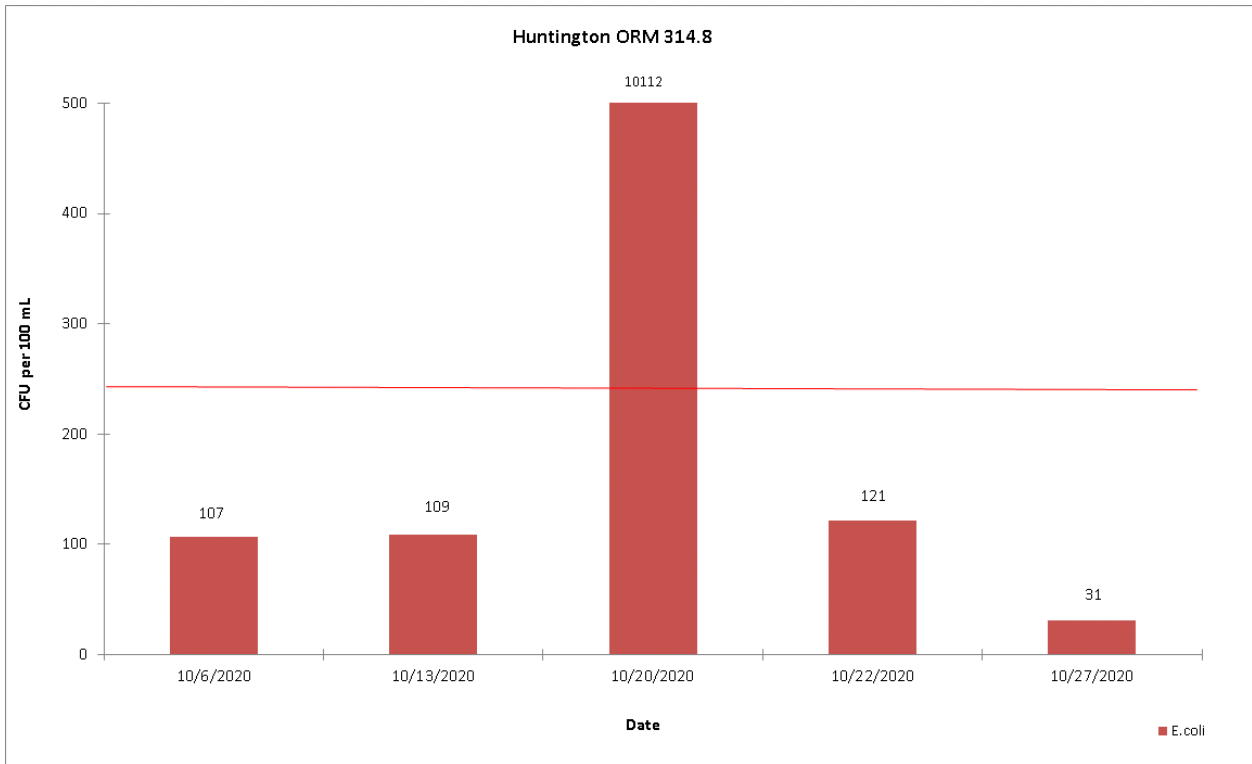
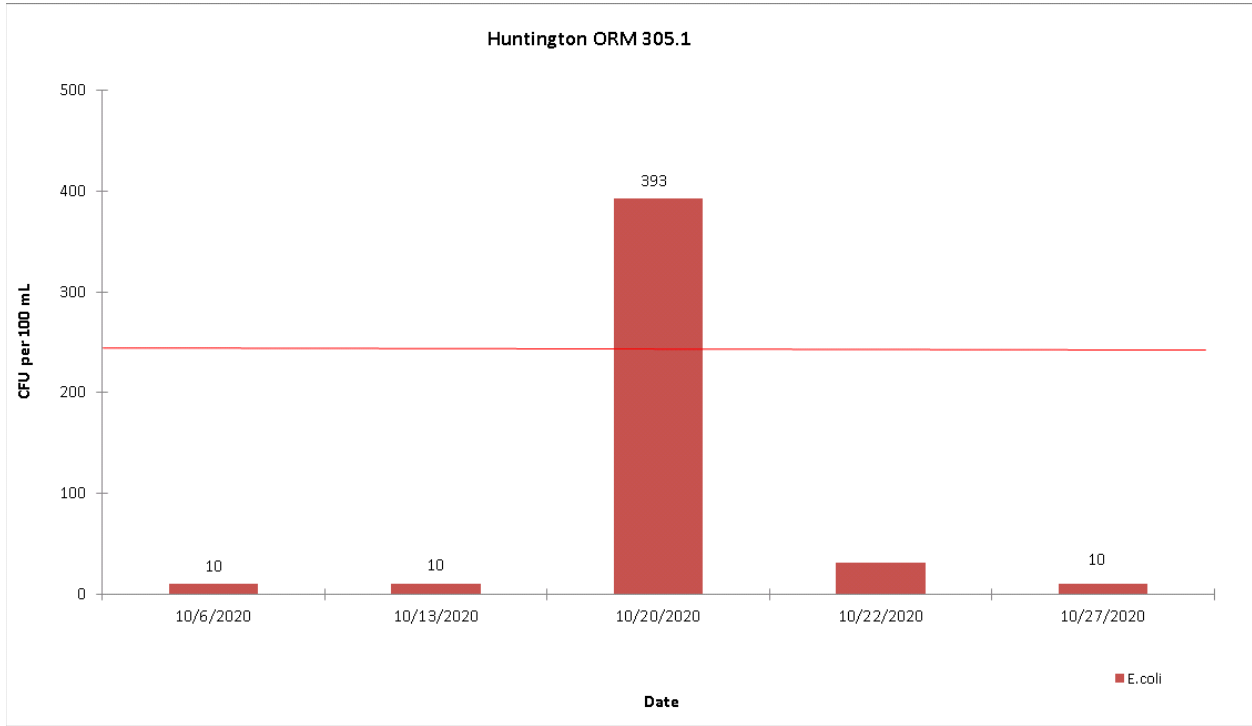
Wheeling

In Wheeling, ORM 86.8 did not exceed the *E.coli* criteria. ORM 92.8 had two individual exceedances for *E.coli*.



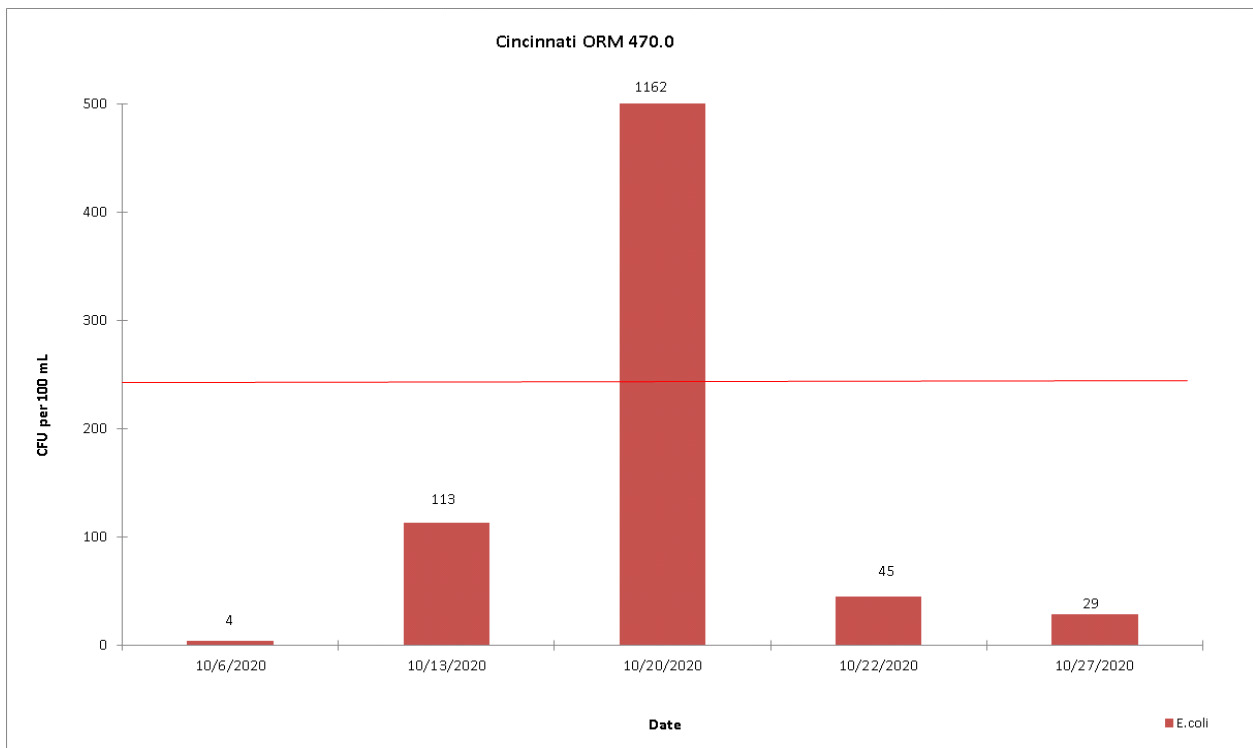
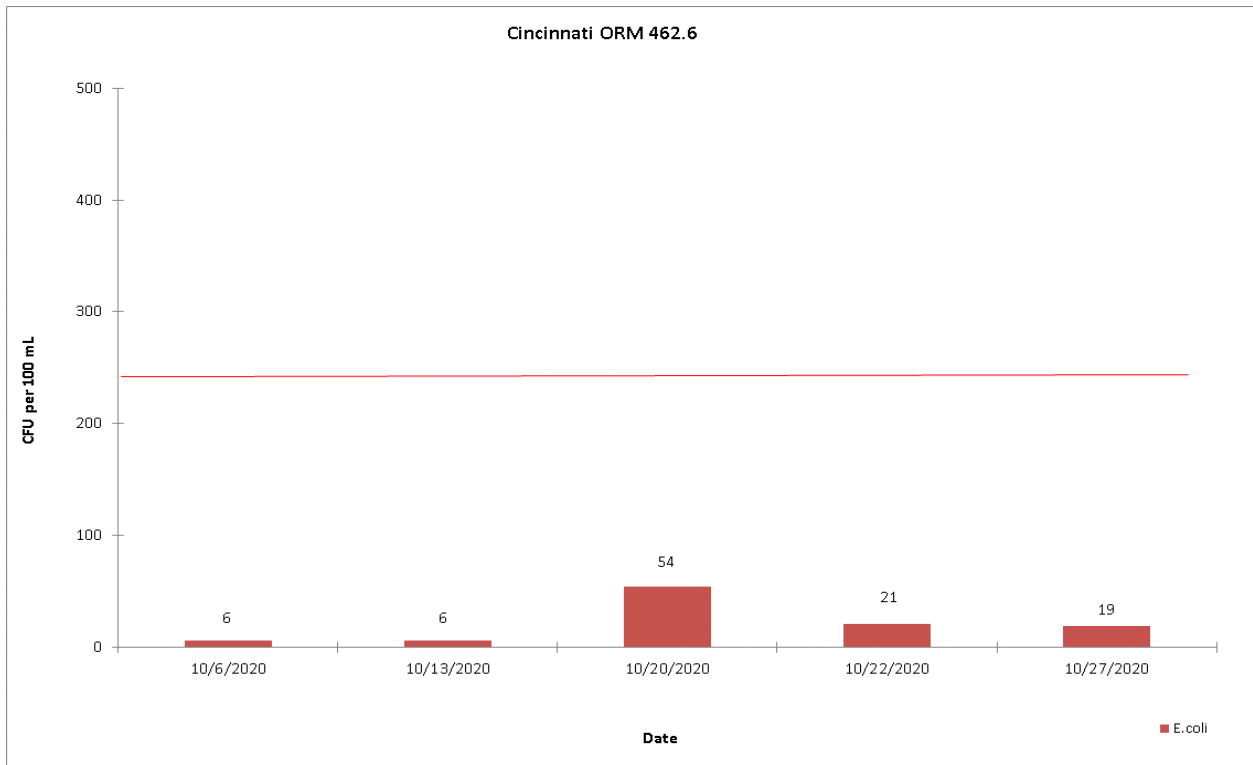
Huntington

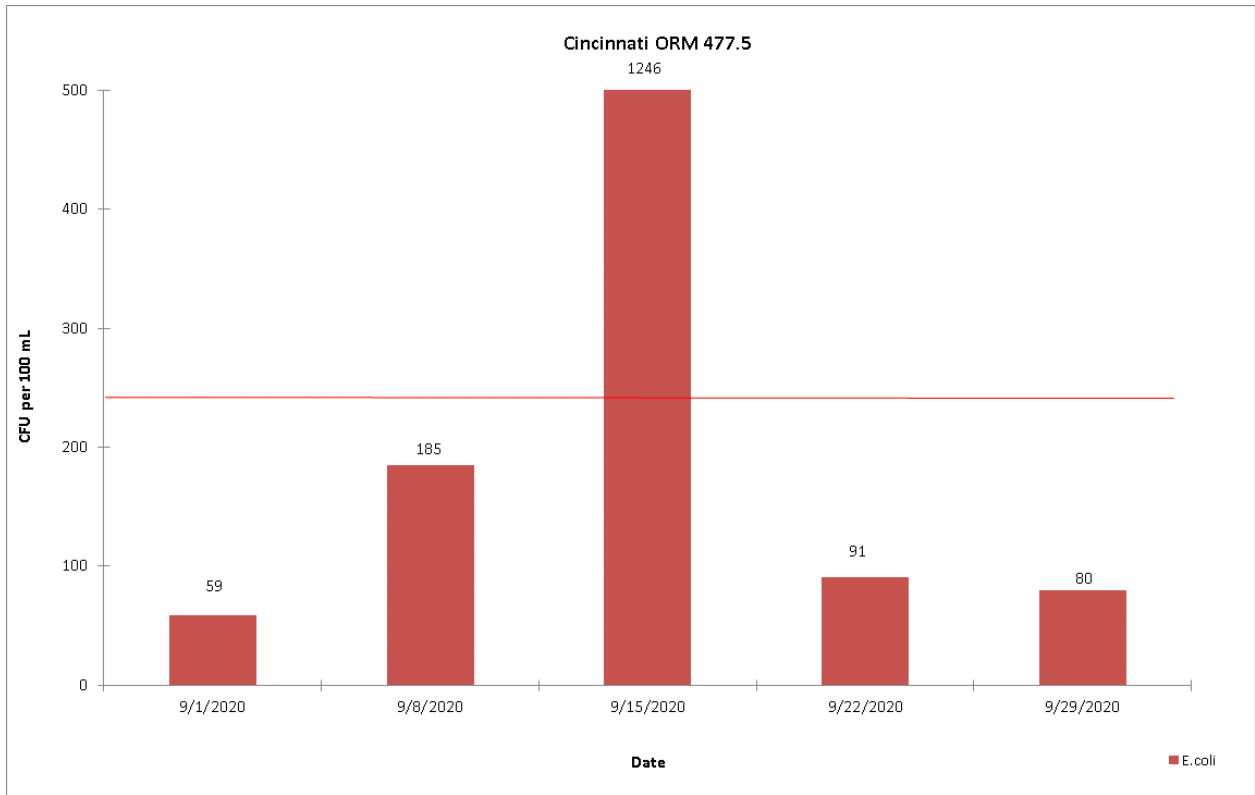
In Huntington, ORM 305.1 and ORM 314.8 had one individual exceedance for *E.coli*.



Cincinnati

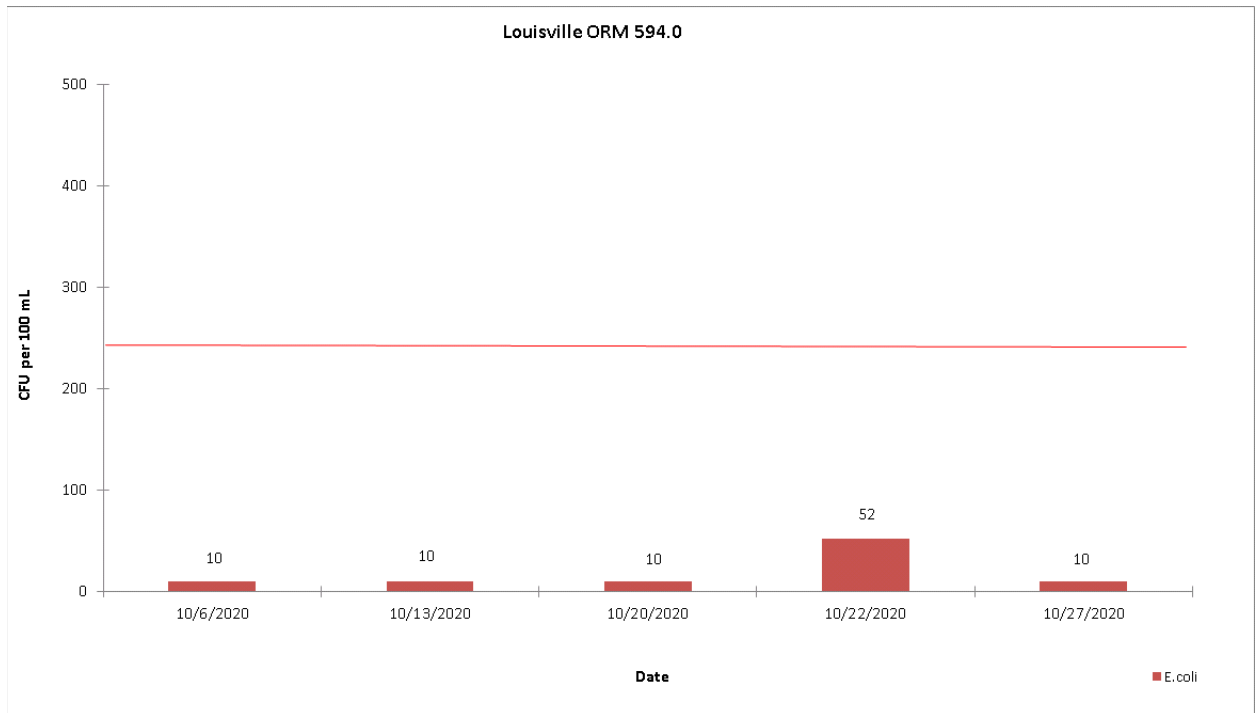
In Cincinnati, ORM 462.6 did not exceed the *E.coli* criteria. ORM 470.0 and ORM 477.5 both had one individual exceedance for *E.coli*.

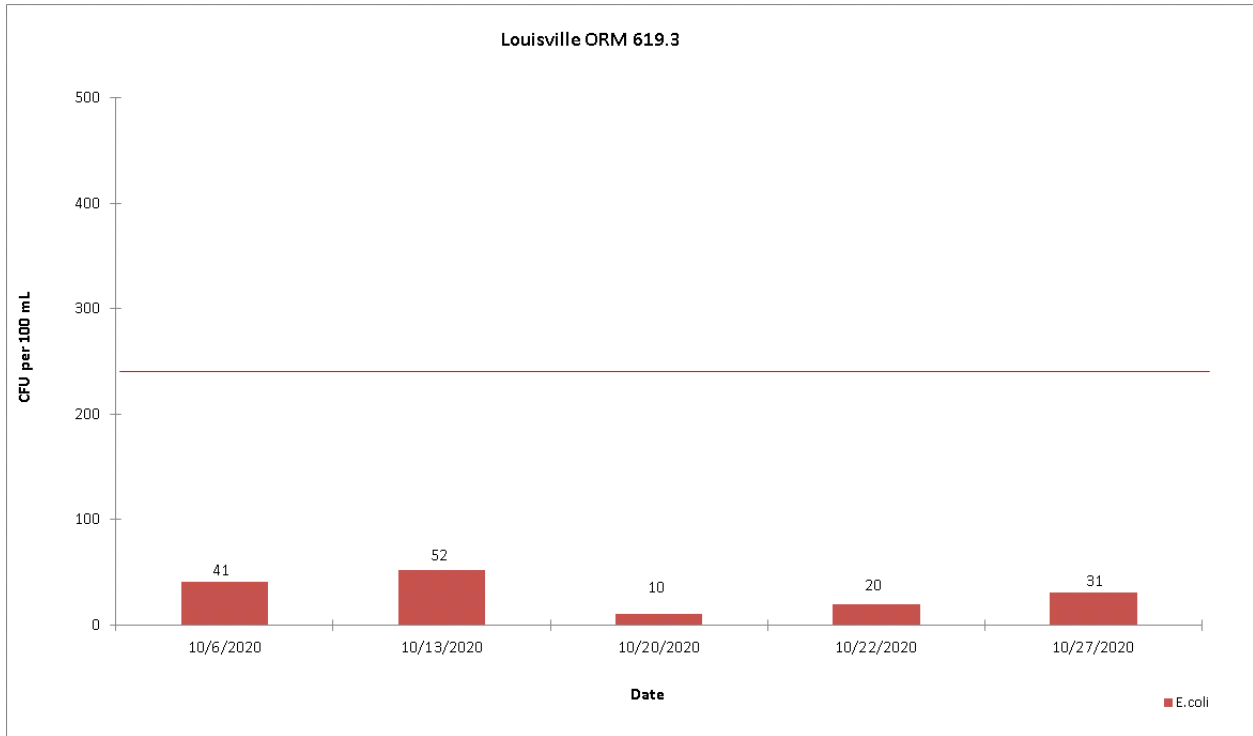




Louisville

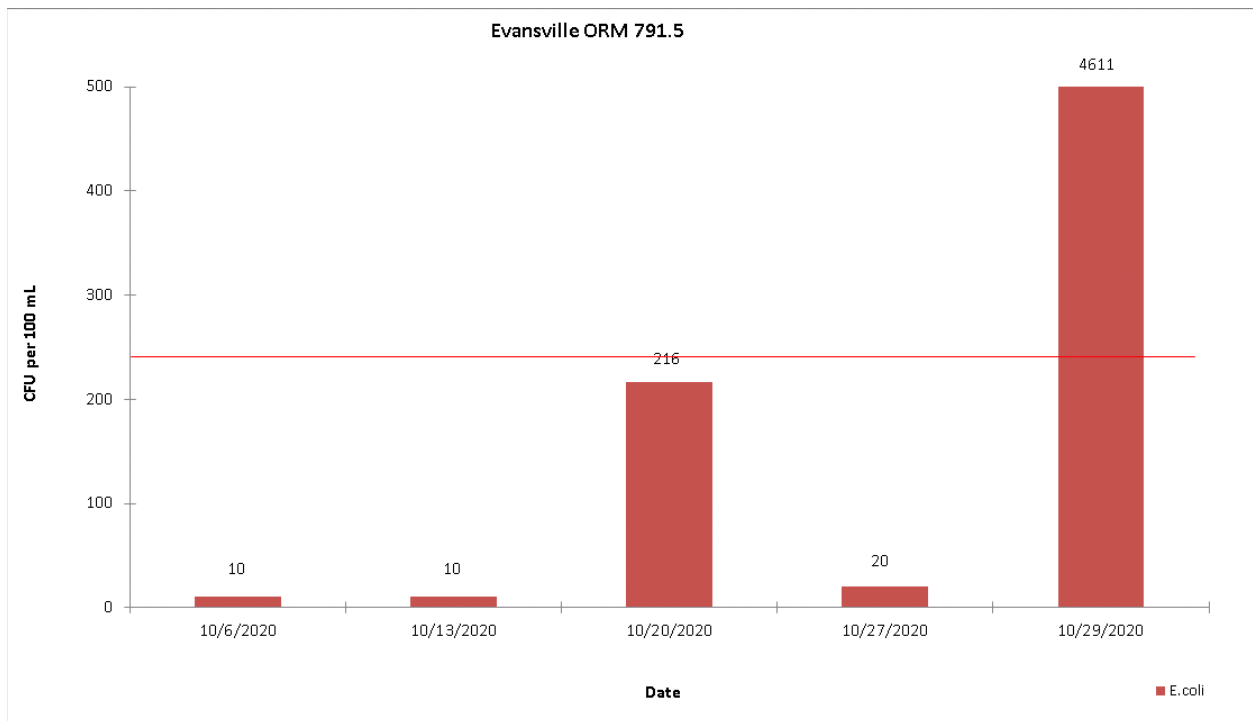
In Louisville, ORM 594.0 and 619.3 did not exceed the *E.coli* criteria.

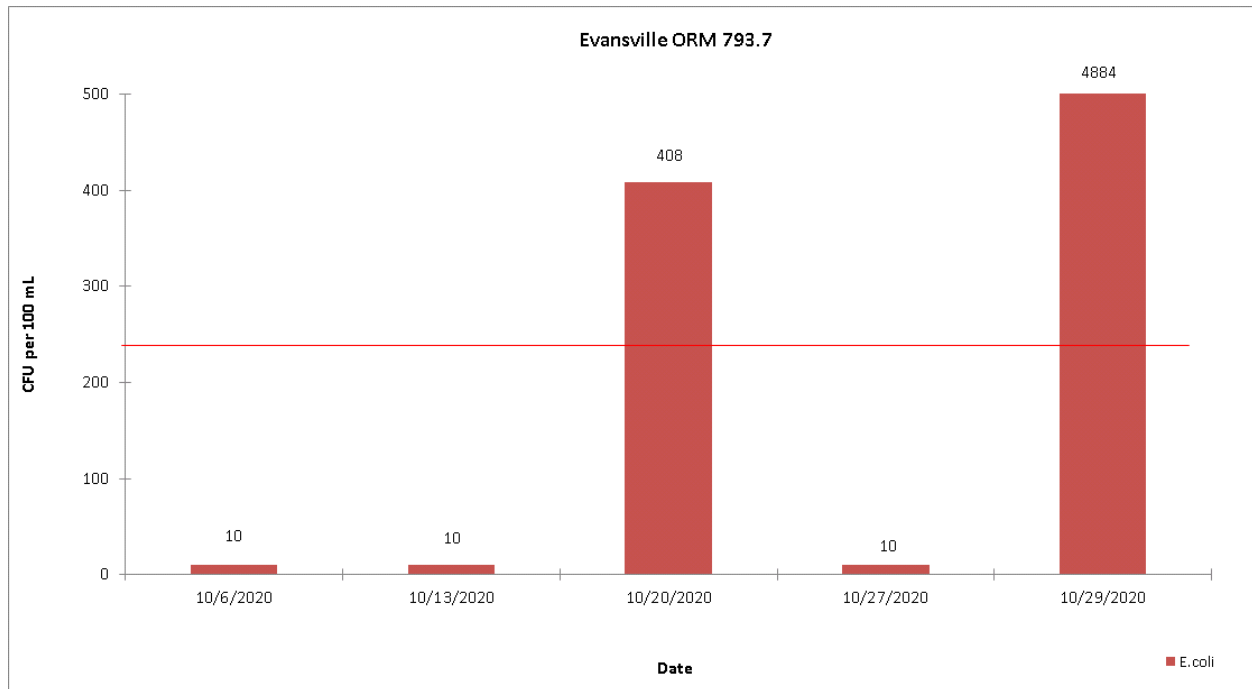




Evansville

In Evansville, ORM 791.5 had one individual exceedance for *E.coli*. ORM 793.7 had two individual exceedances for *E.coli*.





Dissolved Oxygen and Temperature

A summary of the dissolved oxygen and temperature readings collected in October 2020 are displayed in the attached tables. During the months of May through October, ORSANCO interrogates eleven stations for dissolved oxygen (D.O.) and temperature data once per day, Monday through Friday, for the previous 24-hour period. This data is compiled in-house to produce a report showing the minimum, maximum and average of the acquired D.O. and temperature readings. This year Olmstead was added and the results are instantaneous data. ORSANCO's water quality criteria for the protection of warm water aquatic life habitat are:

- The minimum D.O. concentration shall not be less than 4.0 mg/L at any time.
- Average D.O. concentration shall be at least 5.0 mg/L for each calendar day.
- During the April 15 – June 15 spawning season, a minimum D.O. concentration of 5.0 mg/L shall be maintained at all times.
- The monthly average of the daily maximum for October 1-31 is:
 - 74.1 °F at MP 0 to MP 341
 - 76.7 °F at MP 341.1 to MP 606.8
 - 75.5 °F at MP 606.9 to MP 981

Kyger had instrumentation issues and Markland saw D.O. levels drop below the average of 5.0 mg/L. There were no temperature violations. Please click on the link below to be directed to the DO/Temperature tables for October 2020: <http://www.orsanco.org/dissolved-oxygen-and-temperature>