

Monthly Quality Update August 2018



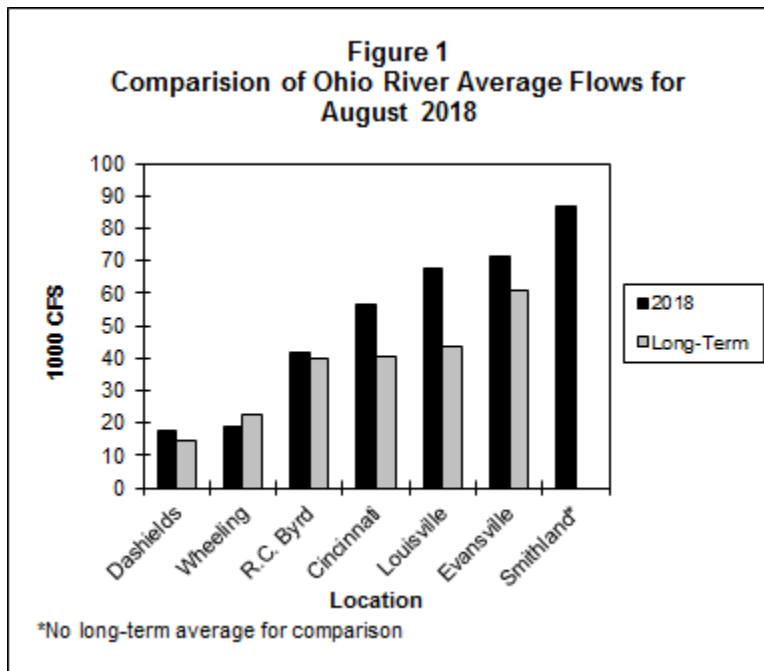
OHIO RIVER VALLEY WATER SANITATION COMMISSION

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Flows

Average flows at seven Ohio River locations are displayed below. At each location the August 2018 average flow (black bar) is contrasted with the long-term average monthly flow (gray bar).



Bacteria

The bacteria monitoring results from six Ohio River locations in August 2018 are in the attached graphs. There are thirteen sites being sampled and West Virginia is the only state that has both Fecal Coliform and *E.coli* results. ORSANCO's water quality criteria for the protection of human health during the contact recreation season are:

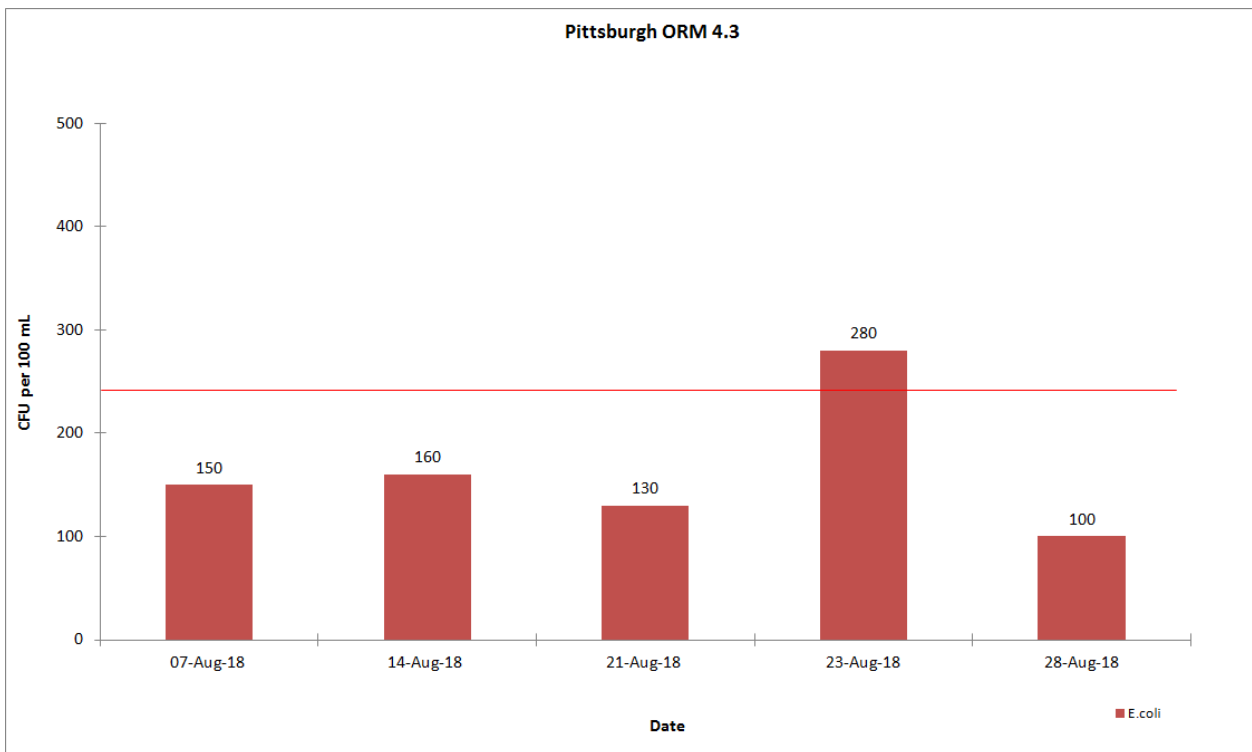
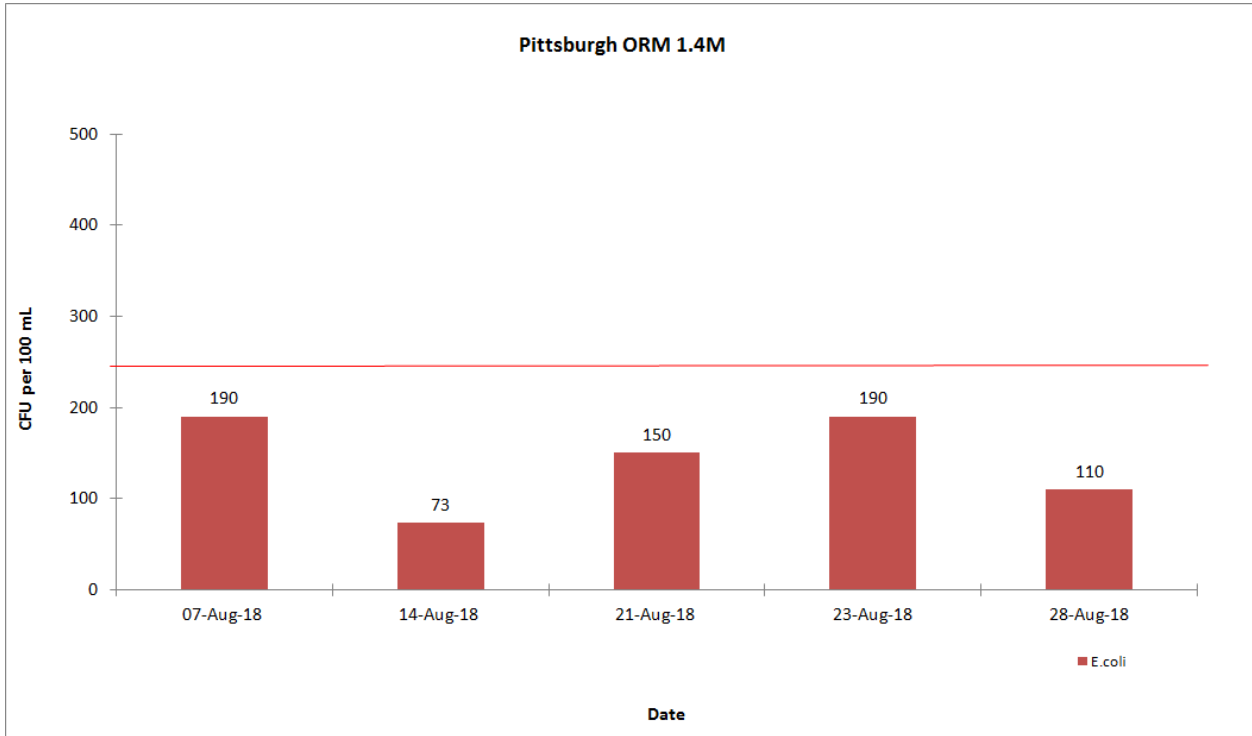
- *E. coli* count is not to exceed 240 CFU/100mL in more than 25 percent of samples. (*E.coli* is shown with a red line on the graph.)
- *E. coli* shall not exceed 130 CFU/100mL as a 90-day geometric mean, based on not less than five samples per month.

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.

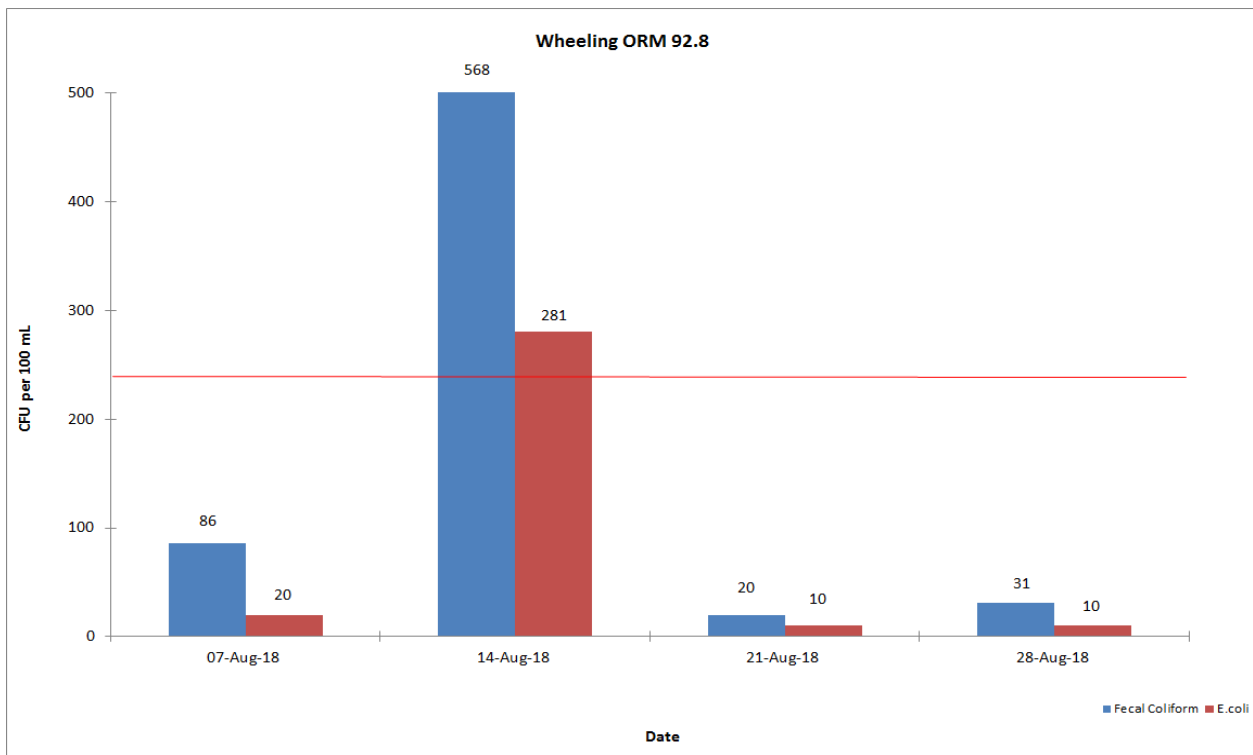
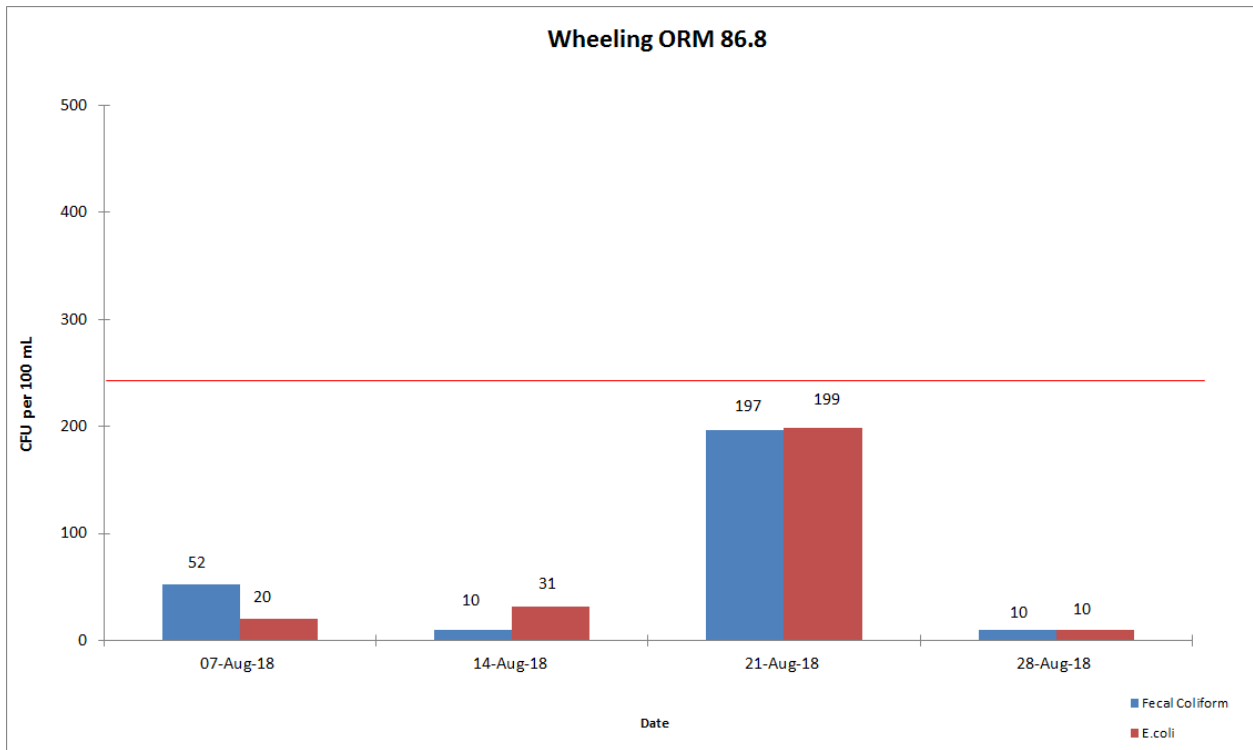
Pittsburgh

In Pittsburgh, ORM 1.4M did not exceed the *E.coli* criteria. ORM 4.3 both had one individual exceedance for *E.coli*.



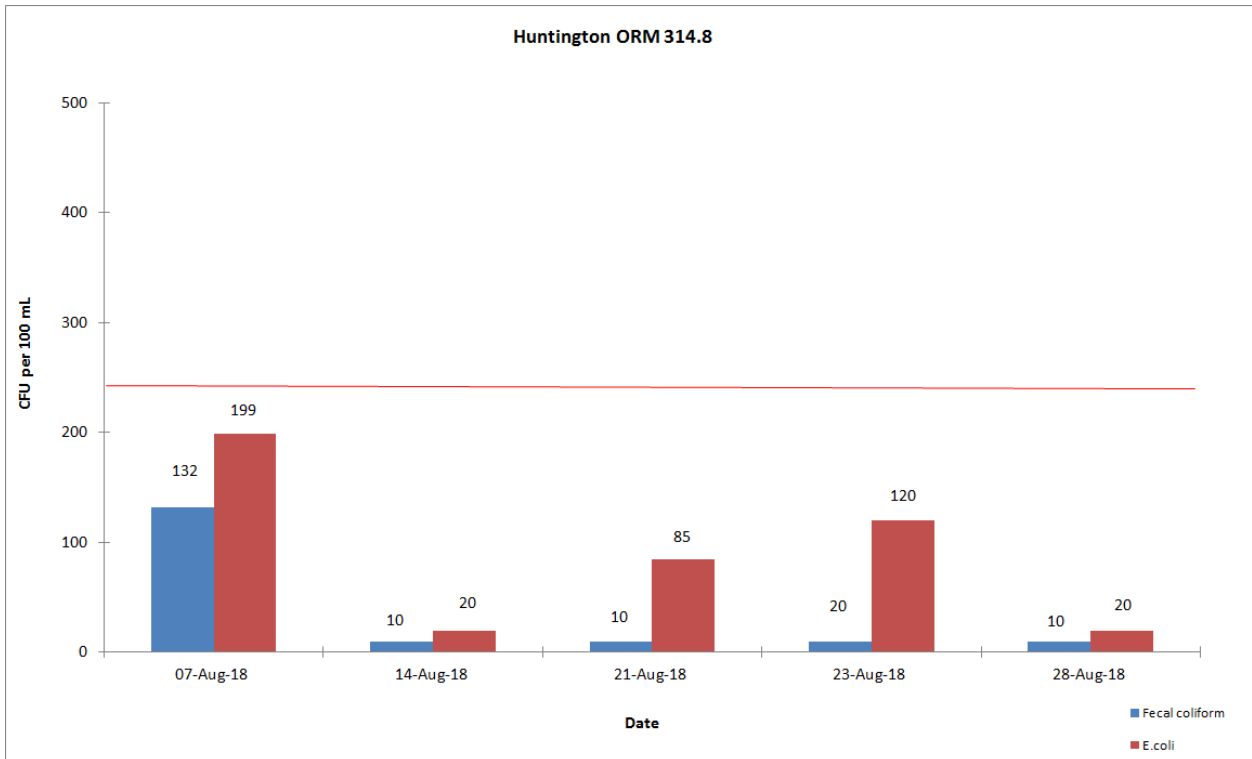
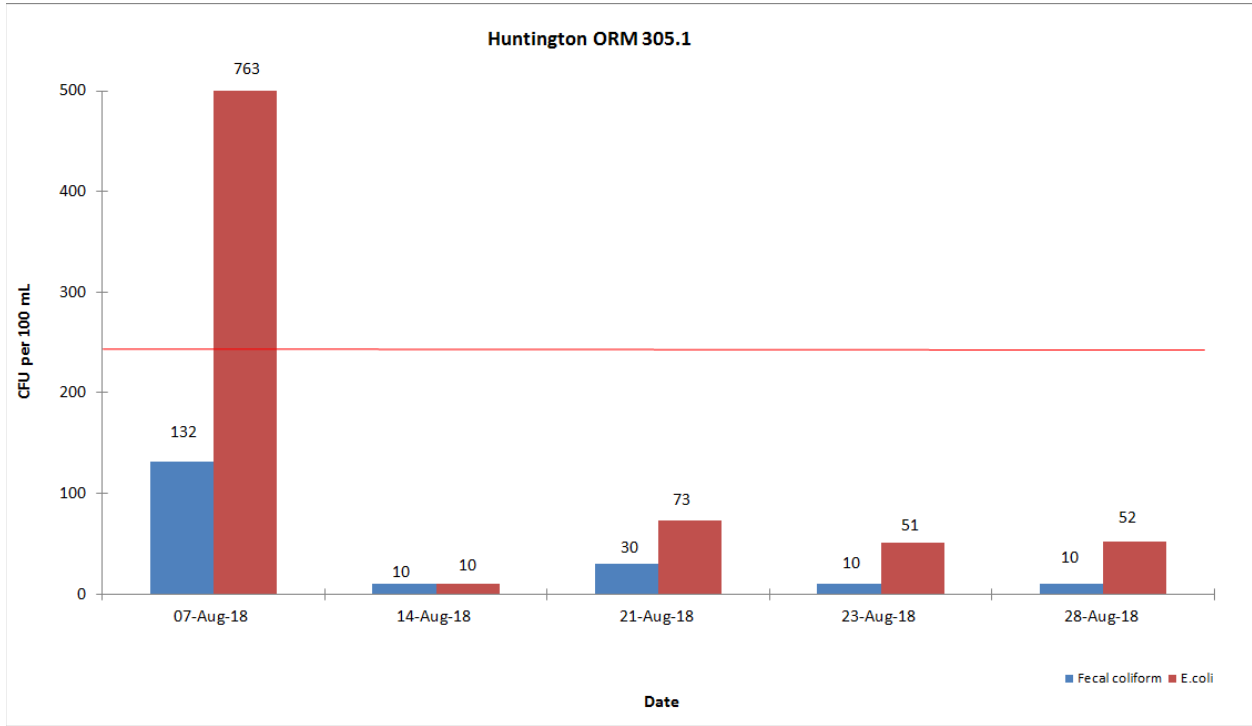
Wheeling

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



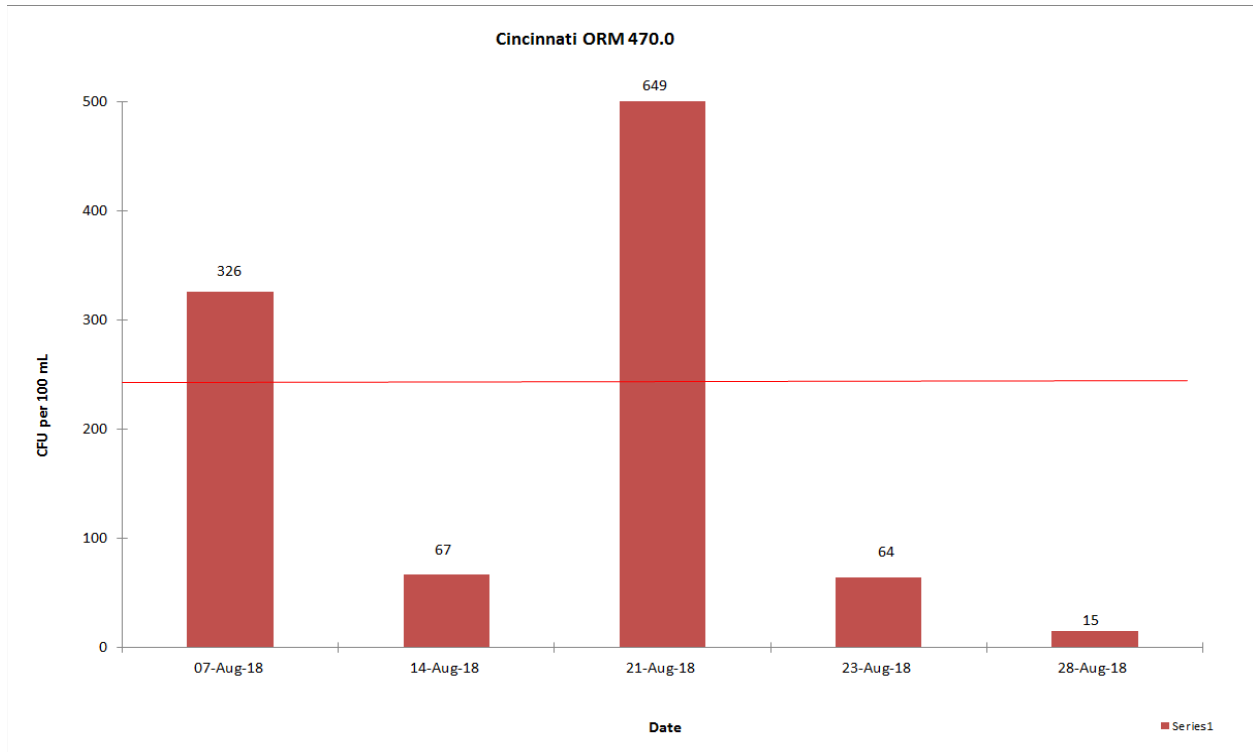
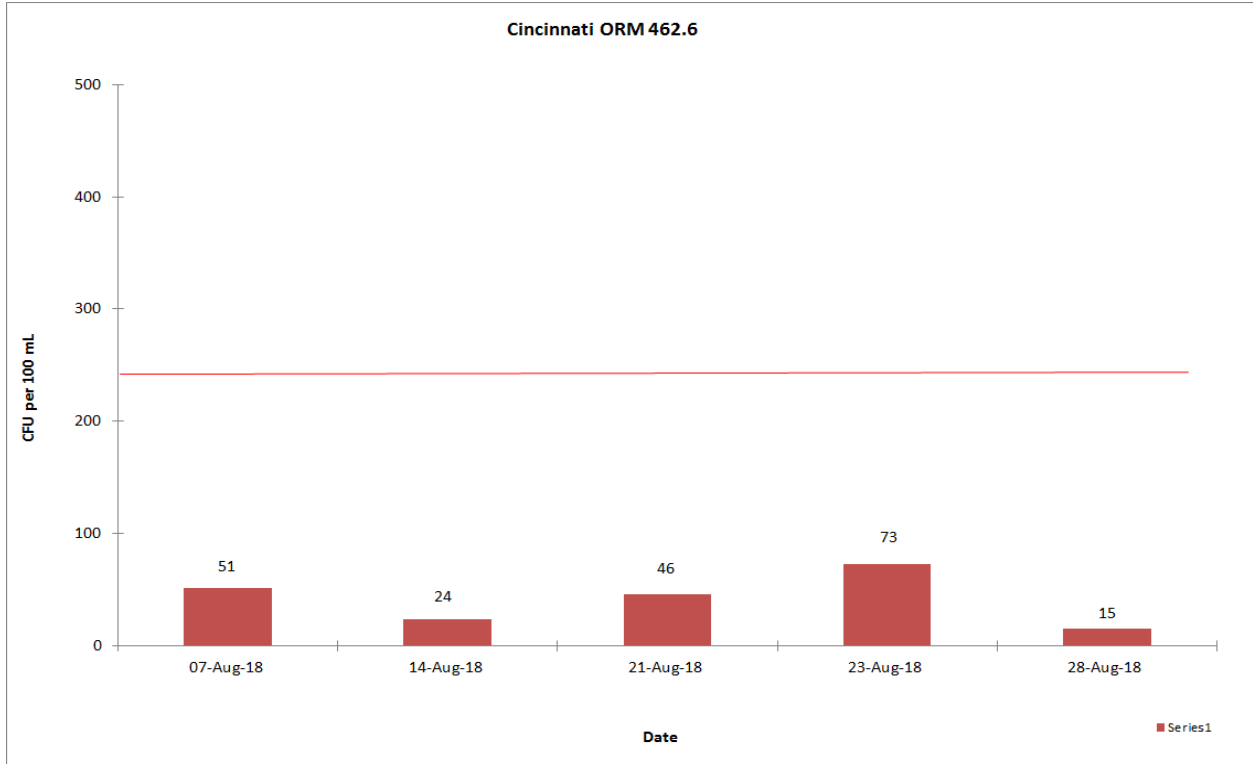
Huntington

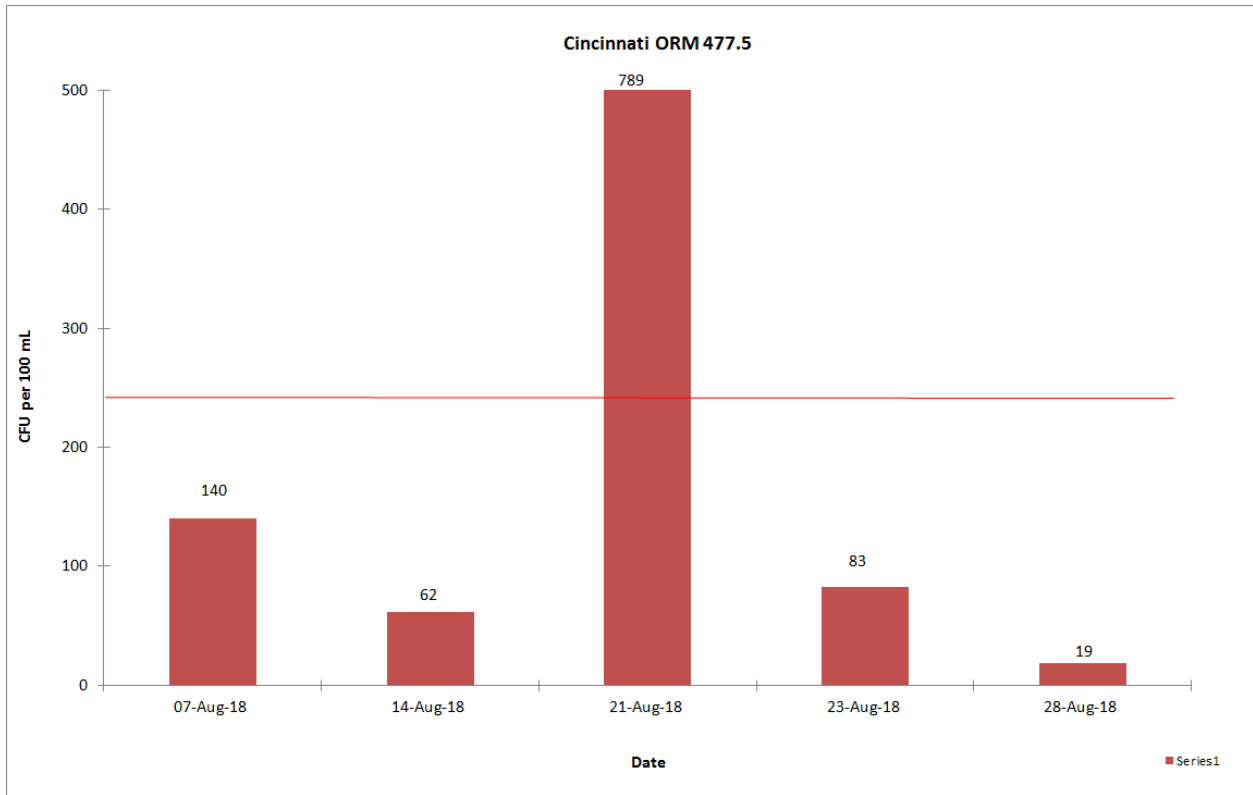
In Huntington, ORM 305.1 had one individual exceedance for *E.coli*. ORM 314.8 did not exceed the *E.coli* criteria.



Cincinnati

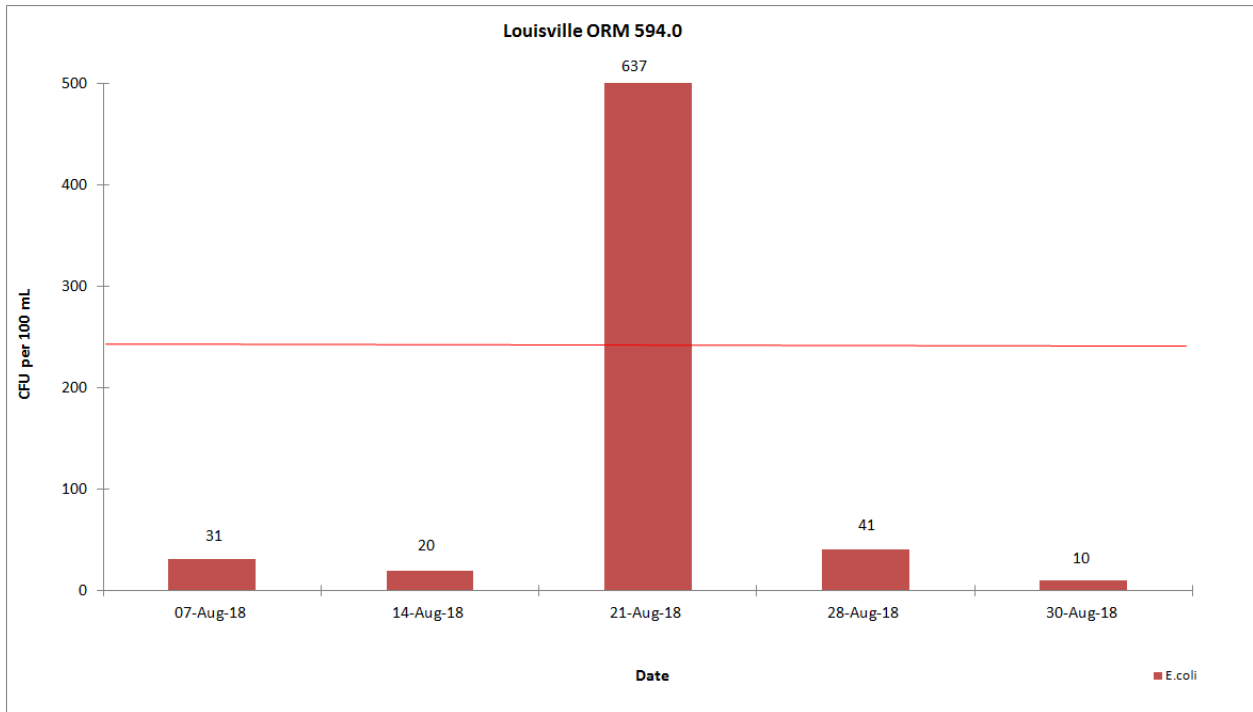
In Cincinnati, ORM 462.6 did not exceed the *E.coli* criteria. ORM 470.0 had two individual exceedances for *E.coli*. ORM 477.5 had one individual exceedance for *E.coli*.

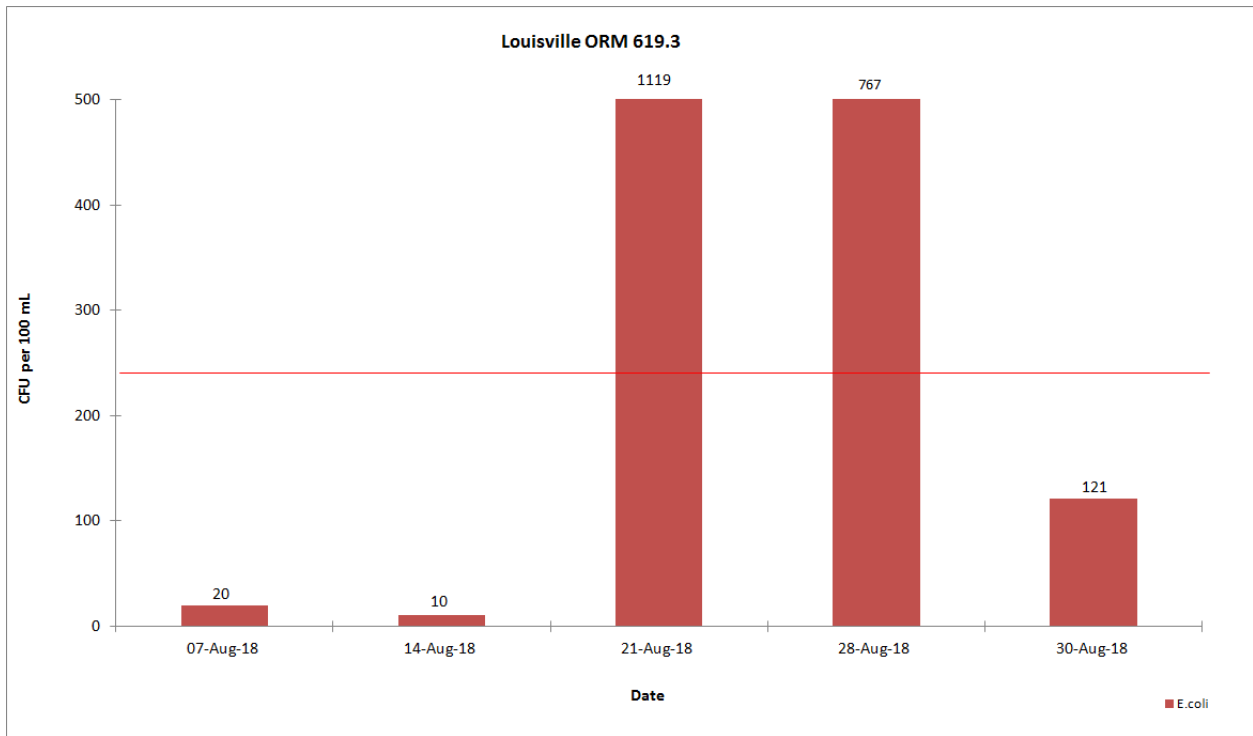




Louisville

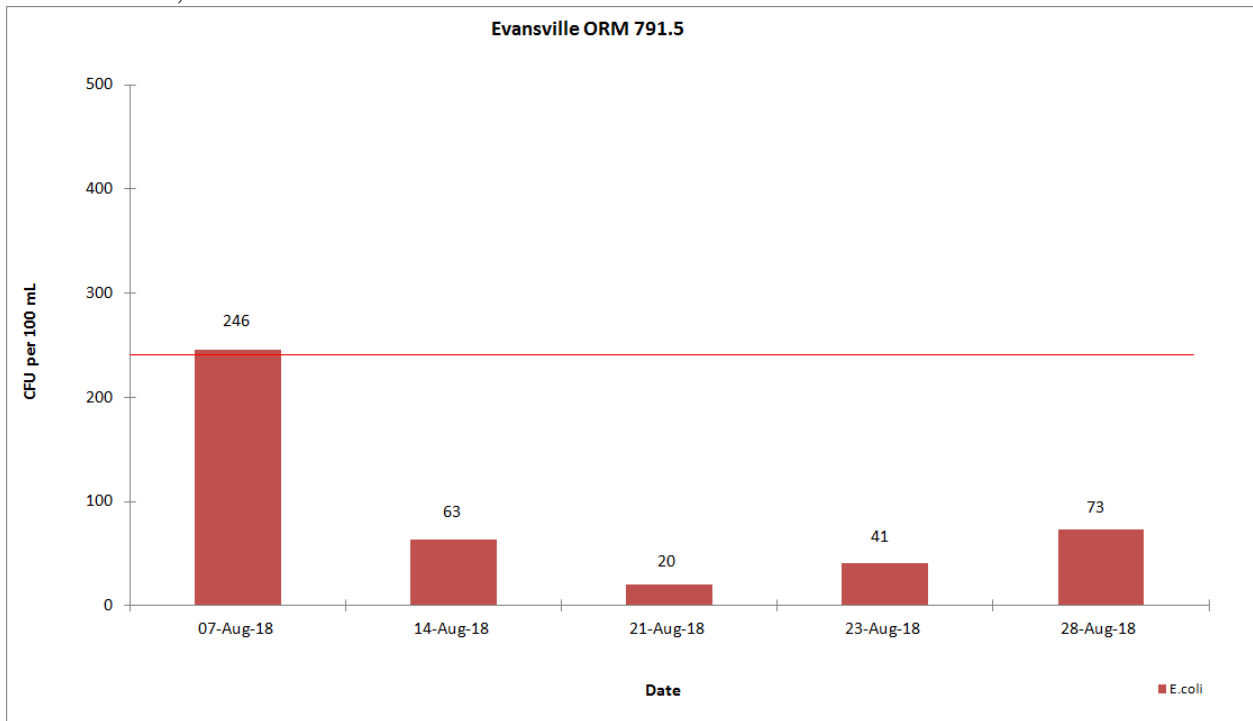
In Louisville, ORM 594.0 had one individual exceedance for *E.coli*. ORM 619.3 had two individual exceedances for *E.coli*.

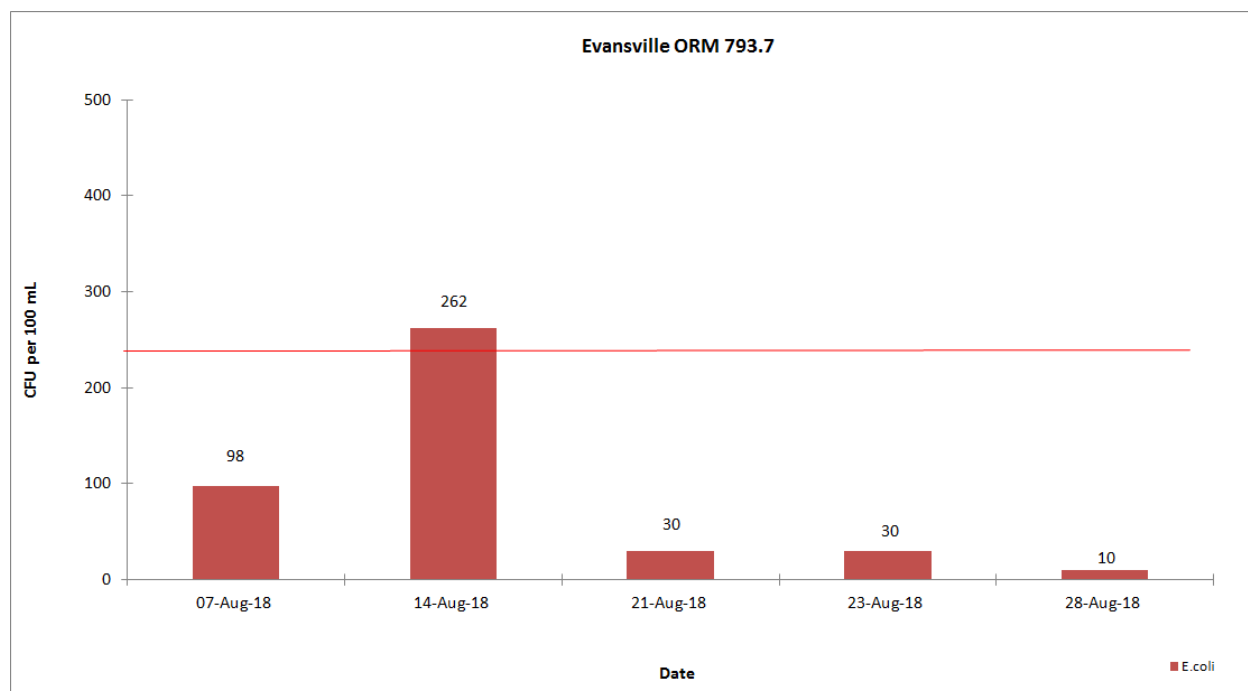




Evansville

In Evansville, ORM 791.5 and ORM 793.7 both had two individual exceedances for *E. coli*.





Dissolved Oxygen and Temperature

A summary of the dissolved oxygen and temperature readings collected in August 2018 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 August 1-31 is:
 - 89.0 °F at MP 0 to MP 341.
 - 89.0 °F at MP 341.1 to MP 606.8.
 - 89.0 °F at MP 606.9 to MP 981.

Racine, Kyger, Markland and McAlpine 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 August 2018:

<http://www.orsanco.org/dissolved-oxygen-and-temperature>