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Friends of the Shenandoah River's 2022 Summer Quantitative *E. coli* Test Results at public recreational use sites on the Main Stem, South Fork and North Fork of the Shenandoah River and the Opequon Creek

These results provide a snapshot of the *E. coli* bacteria concentrations at the designated sites on the date, time, and under the conditions that the water samples were collected.

| SITE ID | SITE DESCRIPTION  | 5/25   | 6/1   | 6/9     | 6/14  | 6/22     | 6/23    | 6/28  | 7/5   | 7/13   | 7/20  | 7/28  | 8/2   | 8/10  | 8/17  | 8/25 | 9/1   | 9/8   | 9/15  |      |
|---------|---|--------|-------|---------|-------|----------|---------|-------|-------|--------|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| FC08    | Main-stem Shenandoah River at Castleman's Ferry public boat ramp, Route 7 bridge                                  | 85.7   | 42.8  | 1299.7  | 78.9  |          | 920.8   | 460.1 | 155.3 |        |       | 68.3  | 28.2  | 88.4  | 122.3 | 30.5 | 32.3  | 31.5  | 115.3 | 26.9 |
| FC05    | Main-stem Shenandoah River at Lockes Landing public boat landing  | 83.6   | 56.1  | 435.2   | 33.1  |          | 261.3   | 226.1 | 50.4  | 65.7   | 81.3  | 137.6 | 93.4  | 166.4 | 48.7  | 82.0 | 387.3 | 160.7 | 68.3  |      |
| FC01    | Main-stem Shenandoah River at Berry's public boat ramp, Route 50 bridge   | 22.8   | 36.4  | 146.7   | 53.0  | 17.3     | 517.2   | 191.8 | 23.8  | 52.9   | 121.0 | 41.0  | 40.4  | 60.9  | 30.1  | 36.4 | 17.1  | 83.9  | 47.9  |      |
| FW35    | Main-stem Shenandoah River at Morgan's Ford low H2O bridge public boat landing below confluence with Manassas Run | 648.8  | 131.7 | 920.8   | 387.3 | >2,419.6 | 4884.0  | 155.3 |       | 980.4  | 387.3 |       | 45.7  | 48.7  | 12.1  | 53.8 | 21.3  |       | 816.4 | 44.1 |
| FW35MID | Main-stem Shenandoah River at Morgan's Ford low H2O bridge mid width of river                                     | 23.1   | 36.4  | 103.9   | 59.8  | 71.2     |         | 191.8 | 16.1  | 96.0   | 128.1 | 39.3  | 31.3  | 25.9  | 47.3  | 12.1 | 33.2  | 488.4 | 28.8  |      |
| FW36    | Manassas Run upstream of confluence with main-stem Shenandoah River, just upstream of public boat landing         | 1553.1 | 218.7 | 816.4   | 579.4 | 866.4    | 2603.0  | 201.4 | 127.4 | 3972.6 | 461.1 | 155.3 | 142.1 | 172.3 | 191.8 | 81.3 | 248.1 |       | 83.9  |      |
| FW14    | SF Shenandoah River at Front Royal public boat landing off Lurray Ave.  | 42.6   | 76.7  | 193.5   | 56.5  | 19.9     | 2478.0  | 115.3 | 51.2  | 517.2  | 49.6  | 52.0  | 14.8  | 27.5  | 72.3  | 25.9 | 72.7  | 52.0  | 11.0  |      |
| FWAGSP  | SF Shenandoah River @ Raymond R. "Andy" Guest Jr., Shenandoah River State Park                                    | 26.9   | 30.5  | 35.9    | 44.8  | 14.6     |         | 44.8  | 48.0  | 110.0  | 10.9  | 22.6  | 31.3  | 224.7 | 22.8  | 14.6 | 17.1  | 44.8  |       |      |
| FWIH    | SF Shenandoah River at Indian Hollow public boat launch off Indian Hollow Road                                    | 13.5   | 31.8  | 58.6    | 59.4  | 29.2     |         | 34.1  | 25.9  | 99.0   | 16.8  | 16.0  | 11.0  | 73.3  | 24.1  | 28.8 | 10.7  | 49.6  |       |      |
| FP03    | SF Shenandoah River at reopened White House public boat landing on east side of river, river right                |        |       |         |       |          |         |       |       |        |       | 26.5  | 22.3  | 30.9  | 44.1  | 18.3 | 30.9  | 20.1  | 71.7  |      |
| FP03WL  | SF Shenandoah River at the relocated White House public boat landing on west side of river, river left            | 93.2   | 44.1  | >2419.6 | 90.8  | 15.8     |         | 110.0 | 14.6  | 275.5  |       |       |       |       |       |      |       |       |       |      |
| FP02    | SF Shenandoah River at Newport public boat ramp downstream of Riverside Campground/ Kite's Store                  | 104.3  | 57.6  | 344.8   | 54.6  | 12.1     |         | 47.1  | 14.4  | 41.0   | 11.0  | 9.6   | 24.3  | 14.8  | 21.8  | 7.4  | 6.3   | 54.8  |       |      |
| FSMB    | NF Shenandoah River at Meems Bottom   |        |       |         |       |          |         |       |       |        |       |       |       |       |       |      |       |       |       |      |
| FSDR    | NF Shenandoah River at Deer Rapids public boat landing  | 14.8   | 33.1  | 36.4    | 31.8  | 14.8     |         | 35.9  | 21.8  | 79.8   | 16.1  | 22.8  | 16.0  | 29.9  | 21.3  | 21.3 | 29.2  | 34.5  |       |      |
| FSSP    | NF Shenandoah River at Strasburg Park public boat landing   | 25.6   | 54.5  | 272.3   | 86.2  | 50.4     | 816.4   | 50.4  | 613.1 | 117.8  | 22.8  | 35.9  | 36.4  | 42.0  | 25.6  | 27.9 | 16.8  | 307.6 | 20.1  |      |
| FCOC    | Opequon Creek @ Neill Road ford   | 166.4  | 155.3 | >2419.6 | 387.3 |          | 12033.0 | 683.0 | 167.0 | 821.2  | 209.8 | 325.5 | 816.4 | 816.4 | 159.7 |      |       |       |       |      |

Previously, Virginia's water quality standard for freshwater beach advisories or closures was a single sample maximum of 235 *E. coli* CFU/100 ml of sample. Virginia no longer has a single, instantaneous, sample maximum or any criteria for primary recreational contact in freshwaters.

Red indicates that the *E. coli* concentration exceeded 235 *E. coli* CFU/100 ml.

Site FSMB, North Fork Shenandoah River at Meems Bottom cover bridge, - River access restricted due to bridge construction downstream