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Friends of the Shenandoah River's 2019 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. Data points in RED exceeded the Virginia water quality standard maximum threshold of 235 CFU of E. coli per 100 mL in freshwater.

SITE ID	SITE DESCRIPTION	5/6	5/15	5/20	5/29	6/5	6/12	6/20	6/27	6/28	7/2	7/5	7/9	7/17	7/24
FC08	Main-stem Shenandoah River at Castleman's Ferry public boat ramp, Route 7 bridge	1732.9	216.2	34.1	166.4	65.0	178.5	90.8	90.9	235.9	172.3	1119.9	172.3	41.0	37.9
FC05	Main-stem Shenandoah River at Lockes Landing public boat landing	1299.7	290.9	72.8	172.2	65.7	101.4	38.8	59.4	195.6	32.7	517.2	98.7	37.3	65.7
FC01	Main-stem Shenandoah River at Berry's public boat ramp, Route 50 bridge	920.8	325.5	38.4	57.6	51.2	101.9	69.7	77.1	60.2	35.0	770.1	39.9	18.7	79.8
FW36	Manassas Run upstream of confluence with main-stem Shenandoah River, just upstream of public boat landing	1203.3	235.9	218.7	191.8	201.4	579.4	275.5	307.6	410.6	285.1	>2419.6	517.2	344.8	476.4
FW35	Main-stem Shenandoah River at Morgan's Ford low H2O bridge public boat landing below confluence with Manassas Run	1732.9	222.4	70.8	59.8	30.9	116.2	178.5	103.9	137.6	121.1	>2419.6	156.5	146.7	201.4
FW35MID	Main-stem Shenandoah River at Morgan's Ford low H2O bridge mid width of river	1119.9	410.6		35.5	113.0	61.7	57.3	38.4	40.4	24.3	579.4	35.5	18.3	69.7
FW14	SF Shenandoah River at Front Royal public boat landing off Luray Ave.	165.8	290.9	31.3	30.5	71.2	125.0	151.5	42.8	980.4	26.6	435.2	45.7	8.5	72.3
FWAGSP	SF Shenandoah River @ Raymond R. "Andy" Guest Jr., Shenandoah River State Park	770.1	980.4	21.1	18.7	14.5	42.0	14.6	29.5		11.0	13.4	33.6	13.4	38.8
FWIH	SF Shenandoah River at Indian Hollow public boat launch off Indian Hollow Road	816.4	1203.3	23.3	24.1	12.0	88.0	26.2	29.9		71.7	34.1	22.6	27.5	27.5
FP03	SF Shenandoah River at White House public boat landing	248.1	1299.7	46.5	16.0	28.8	83.6	35.0	42.6		24.3	71.7	46.4	160.7	13.5
FP02	SF Shenandoah River at Newport public boat ramp downstream of Riverside Campground & Kite's Store	209.8	920.8	44.1	42.6	36.4	193.5	37.3	63.1		20.1		116.2	40.4	14.2
FSMB	NF Shenandoah River at Meems Bottom	>2419.6	176.4	115.3	90.8	88.2	149.7	235.9	125.9		67.7	770.1	122.3	387.3	77.6
FSDR	NF Shenandoah River at Deer Rapids public boat landing	>2419.6	331.6	35.9	26.9	95.9	46.2	42.6	72.7	53.7	31.3	20.1	14.6	23.1	42.6
FSSP	NF Shenandoah River at Strasburg Park public boat landing	>4839.2	581.8	42.0	69.1	17.3	39.9	68.9	93.3	129.1	52.8	50.4	43.2	46.4	1299.7
FCOC	Opequon Creek @ Neill Road ford	>2419.6	248.1	118.7	344.8	193.5	129.6	116.9	124.6	410.6	307.6	4839.2	197.4	238.2	976.8

STATE WATER CONTROL BOARD 9 VAC 25-260
Virginia Water Quality Standards.
Statutory Authority: § 62.1-44.15 3a of the Code of Virginia. WITH AMENDMENTS EFFECTIVE January 6, 2011

For beach advisories or closures, a single sample maximum of 235 E.coli CFU/100 ml in freshwater and a single sample maximum of 104 enterococci CFU/100 ml in saltwater and transition zones shall apply.

Red indicates that the Standard criteria, no more than 10% of the total samples in the assessment period shall exceed 235 E.coli CFU/100 ml, has been exceeded.
http://law.lis.virginia.gov/admincode/title9/agency25/chapter260/section170/

E. coli results reported as >2,419.6 MPN/100mL exceeded the method limit of 2,419.36 MPN/100mL