

Orange or yellow highlighted cells indicate high results.

*Results marked with strikethroughs are less than the lab reporting limit (see below). Any results le:

Column Heading	Description	Units	*Reporti ng Limit	2018-20 Regional VWIN Average
site #	VWIN site number			
site name	VWIN site name			
month	month of sample collection			
day	day of sample collection			
year	year of sample collection			
NH3-N	ammonia-nitrogen	mg/L	0.02	0.08
NO3-N	nitrate/nitrite-nitrogen	mg/L	0.1	0.5
Total P	total phosphorus (as PO4)	mg/L	0	n/a
PO4	orthophosphate	mg/L	0.02	0.08
Turb	turbidity	NTU	1	6
TSS	total suspended solids	mg/L	10	7.9
Cond	conductivity	umhos/cm	10	77.7
Alk	alkalinity	mg/L	1	22.2
pH	pH	s.u.	n/a	7.2

fecal coliform	fecal coliform	CFU/100 mL	1	n/a
DO	dissolved oxygen	mg/L	n/a	n/a
temp	water temperature	degrees Celsius	n/a	n/a
Secchi depths	Secchi depth	feet or inches as marked	n/a	n/a
volunteer comments	observations provided by volunteers			
present weather conditions	subjective categories for volunteer observations			
amt rain last 3 days	subjective categories for volunteer observations			

flow/water level	subjective categories for volunteer observations			
water clarity	subjective categories for volunteer observations			
water color	subjective categories for volunteer observations			
water surface	subjective categories for volunteer observations			
water odor	subjective categories for volunteer observations			
trash	subjective categories for volunteer observations			
Cu	copper	ug/L	2	n/a
Zn	zinc	ug/L	20	n/a
Pb	lead	ug/L	2	n/a
Lake Lure elevation: 1,125 ft				

Values less than the reporting limit are considered estimated.			
2018-20 Pristine VWIN Average	NC Regulatory Limits	Analysis Method	Notes
0.04	n/a	SM 4500 NH3 C- 2011	
0.2	10.0 mg/L nitrate only	Cadmium reduction	
n/a	n/a	SM 4500 P E-2011	to calculate total phosphorus as P, divide by results by 3.07
0.04	n/a	SM 4500 P E-2011	
2.1	50 NTU for aquatic life, 10 NTU for Trout Waters	SM 2130 B-2011	
2.8	n/a	SM 2540 D-2011	
19.7	n/a	SM 2510 B-2011	
9.5	n/a	Methyl orange titration	
7	allowable limit 6.0-9.0	SM 4500 H+B- 2011	

n/a	fecal coliforms shall not exceed a geometric mean of 200/100ml (MF count) based upon at least five consecutive samples examined during any 30 day period, nor exceed 400/100ml in more than 20 percent of the samples examined during such period	SM 9222 D-2015	CFU stands for colony forming units using membrane filtration counts.
n/a	not less than 6.0 mg/l for trout waters; for non-trout waters, not less than a daily average of 5.0 mg/l with a minimum instantaneous value of not less than 4.0 mg/l; swamp waters, lake coves or backwaters, and lake bottom waters may have lower values if caused by natural conditions		measured in the field by water quality meter
n/a	not to exceed 2.8 degrees C (5.04 degrees F) above the natural water temperature, and in no case to exceed 29 degrees C (84.2 degrees F) for mountain and upper piedmont waters. The temperature for trout waters shall not be increased by more than 0.5 degrees C (0.9 degrees F) due to the discharge of heated liquids, but in no case to exceed 20 degrees C (68 degrees F)		measured in the field by water quality meter
n/a	n/a	Secchi disk	measure in the field

