

Orange or yellow highlighted cells indicate high results.

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

| Column Heading | Description | Units | *Reporti ng Limit | 2018-20 Regional VWIN Average | 2018-20 Pristine VWIN Average | NC Regulatory Limits | Analysis Method | Notes |
|----------------|-------------------------------|-------|----------------------|--|--|---|---------------------------|--|
| 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 | 0.04 | n/a | SM 4500 NH3 C- 2011 | |
| NO3-N | nitrate/nitrite-nitrogen | mg/L | 0.1 | 0.5 | 0.2 | 10.0 mg/L nitrate only | Cadmium reduction | |
| Total P | total phosphorus (as PO4) | mg/L | 0 | n/a | n/a | n/a | SM 4500 P E-2011 | to calculate total phosphorus as P, divide by results by 3.07 |
| PO4 | orthophosphate | mg/L | 0.02 | 0.08 | 0.04 | n/a | SM 4500 P E-2011 | |
| Turb | turbidity | NTU | 1 | 6 | 2.1 | 50 NTU for aquatic life, 10 NTU for Trout Waters | SM 2130 B-2011 | |
| TSS | total suspended solids | mg/L | 10 | 7.9 | 2.8 | n/a | SM 2540 D-2011 | |

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|----------------|------------------|------------|-----|------|------|---|-------------------------------|---|
| Cond | conductivity | umhos/cm | 10 | 77.7 | 19.7 | n/a | SM 2510 B-2011 | |
| Alk | alkalinity | mg/L | 1 | 22.2 | 9.5 | n/a | Methyl orange titration | |
| pH | pH | s.u. | n/a | 7.2 | 7 | allowable limit 6.0-9.0 | SM 4500 H+B- 2011 | |
| fecal coliform | fecal coliform | CFU/100 mL | 1 | n/a | 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. |
| DO | dissolved oxygen | mg/L | n/a | n/a | 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 |

| | | | | | | | | |
|----------------------------|--|--------------------------|-----|-----|-----|--|-------------|--|
| | | | | | | 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) | | |
| temp | water temperature | degrees Celsius | n/a | n/a | n/a | | | measured in the field by water quality meter |
| Secchi depths | Secchi depth | feet or inches as marked | n/a | n/a | n/a | n/a | Secchi disk | measure in the field |
| 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 | | | | | | | |

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|----------------------------------|---|------|----|-----|-----|--|--|--|
| 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 | n/a | | | |
| Zn | zinc | ug/L | 20 | n/a | n/a | | | |
| Pb | lead | ug/L | 2 | n/a | n/a | | | |
| | | | | | | | | |
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| Lake Lure elevation: 1,125 ft | | | | | | | | |
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