

H. Identify indicators to measure progress

“A set of criteria that can be used to determine whether loading reductions are being achieved over time and substantial progress is being made towards attaining water quality standards and, if not, the criteria for determining whether this watershed based plan needs to be revised or, if a NPS TMDL has been established, whether the NPS TMDL needs to be revised.”

The criteria:

1. Dissolved Oxygen (DO). See [Suwannee River Basin Dissolved Oxygen TMDL Submittals](#), GA-EPD, December 2001, which recommends:

Numeric. A daily average of 5.0 mg/l and no less than 4.0 mg/l at all times for waters supporting warm water species of fish. 391-3-6-.03 (c) (l)

Natural Water Quality - GAEPD. It is recognized that certain natural waters of the State may have a quality that will not be within the general or specific requirements contained herein...

Natural Water Quality - EPA. “Where natural conditions alone create dissolved oxygen concentrations less than 110 percent of the applicable criteria means or minima or both, the minimum acceptable concentration is 90 percent of the natural concentration.”

The same document recorded for CAT CREEK (CR 777) NEAR BARRETTTS, GA., DO minimum 0.9, maximum 10, average 4.7 over 20 samples. Since the average is more than 4.0 and less than 5.0, presumably the minimum is the problem.

We aim to document an average between 4.0 and 5.0 mg/L., or reasons for why it is low, such as accumulated decaying vegetation.

2. E. coli below 410 cfu/100 mL weekly and after rain events for:
 - a. Cat Creek at GA 122, Cat Creek Road, and Confluence with Withlacoochee River (if accessible); see [Overview Map](#)
 - b. Beaverdam Creek at Park Street; see [Beaverdam Creek Map](#)
 - c. Beatty Mill Creek at Beatty Mill Creek Road*; see [Beatty Mill Creek Map](#)
*if indicated by high Cat Creek E. coli at Cat Creek Road but not at GA 122.
Other feeder creeks may also need such testing; see [Appendix B: Maps](#).
 - d. Beatty Branch at Cat Creek Road; see [Beatty Branch Map](#)
 - e. Radar Site Branch at Cat Creek Road†
 - f. Backe Branch at Radar Site Road†
 - g. Pams Branch at Robinson Road†
† Not needed if Cat Creek Confluence is testable and tests well;
see [Lower Cat Creek Map](#)
3. No significant DNA markers for human, cattle, horse, hog, dog, cat, or bird DNA at
 - a. Cat Creek at GA 122, Cat Creek Road, and Confluence with Withlacoochee River (if accessible)