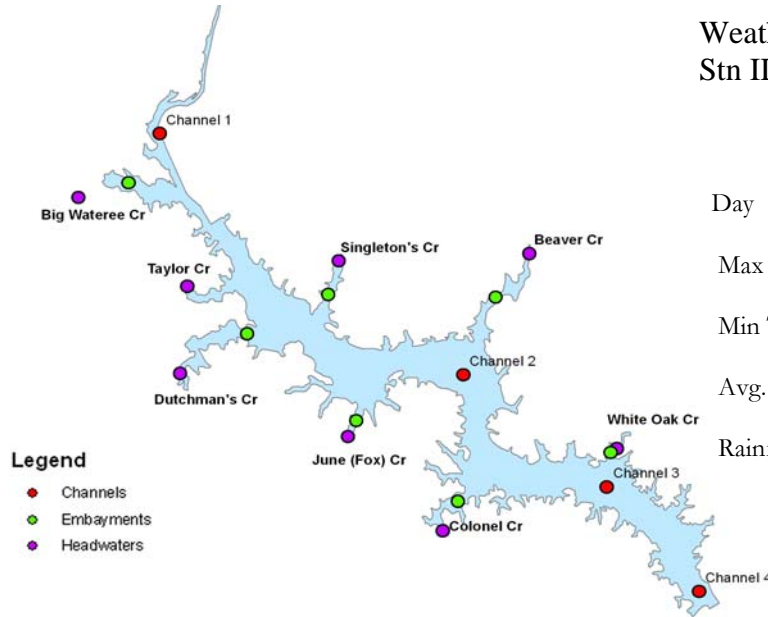


Report on Sample Run June 11, 2010

Our latest sample run was completed on Friday, June 11, 2010 at all twenty sample sites. Gary Faulkenberry skippered the Water Watch boat and along with USC student Allyson Shea sampled the headwaters. For sampling the embayments and channels, George Jeandheur was at the helm of his boat, Captain Ron Kaden was navigator, and Bob Murphy and Dan Tufford took care of the sampling. This was homemade brownie and cookie day on the lake. We can justify the calories because of the incredibly, physically hard work of sitting in a boat on the lake.



Weather Conditions at Wateree Dam Stn ID: 388979

Day	Fri 11th	Thur 10th	Prev. 7 days
Max Temp	95	90	90.8
Min Temp	70	70	68.1
Avg. Temp	82.5	80	79.9
Rainfall (in.)	missing	missing	0.00

The water quality compliance index was 77%, compared to the historic index of 67% for the same time of year (June). This means that of the 60 surface water samples taken (i.e., those at 1 ft below the surface) 23% (or 14 of the 60 samples taken) were *not* in compliance with SCDHEC water quality criteria. The SCDHEC turbidity criterion (25 NTU) was exceeded at only two stations: Big Wateree Creek headwater and Channel 1. This month, similar to May, the pH was the main source of exceedence, with twelve of the twenty samples being out of compliance at greater than the upper range value of 8.5. Also similar to May, the high pH values probably reflect a high photosynthesis rate in the phytoplankton community. This was also seen in the high dissolved oxygen (DO) concentrations observed at stations with elevated pH.

In the historical data from 1999, 2000, 2002 and 2009, all three criteria were exceeded in fairly equal proportions. Similar to what was found on this sampling run, the pH exceedences were always greater than the upper accepted range. All but one of the historical DO values out of compliance (less than 4mg) came from the year 2002. And all the turbidity exceedences came from the years 1999 and 2000, almost exclusively occurring at the headwater locations.