

# Simpson Lake

St. Louis County

2008 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
5/16	26	127	1130	37.4	8.6
6/11	19	115	820	67.8	9.6
6/30	28	64	670	68.6	4.3
<b>Mean</b>	<b>24</b>	<b>98</b>	<b>853</b>	<b>55.8</b>	<b>7.1</b>

2008 SUMMARY

Maximum values for both phosphorus and nitrogen were measured during the first sample in mid-May, a common occurrence in Missouri reservoirs as most inputs that affect surface water quality occur during the spring. By late-June nutrient concentrations were about half of what they were on the first sample. Chlorophyll levels were high on all three sample dates, with the June 30th value being greater than the phosphorus concentration. When chlorophyll concentrations match or exceed phosphorus levels it is indicative of an algal bloom. Simply put, the algae are being extremely efficient at using the available phosphorus that is in the system.

Data from 2008 is comparable to that collected in 2004.

TRENDS

