Creve Coeur Lake

Saint Louis County

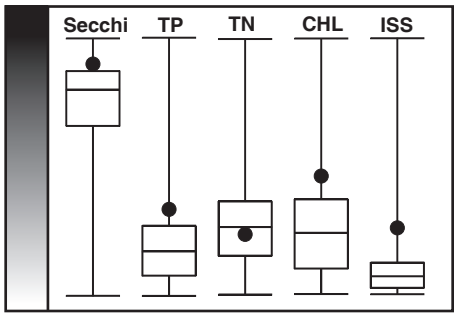
2007 DATA

Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
5/6	21	75	740	49.7	18.2
5/20	24	63	630	20.6	6.8
6/3	21	60	720	25.7	8.2
6/24	27	63	660	20.0	7.2
7/14	24	61	570	12.4	7.8
8/12	22	71	620	26.5	11.2
8/26	20	89	780	45.3	7.8
10/8	19	94	670	30.8	16.2
Mean	**22**	**71**	**670**	**26.5**	**9.7**

2007 SUMMARY

Creve Coeur was sampled on eight occasions over a five month period during 2007. During this period the phosphorus and nitrogen concentrations as well as Secchi transparency were fairly stable. Chlorophyll and inorganic suspended solids displayed some variability, fluctuating by factors of 4 and 2.7, respectively. This amount of variability is not uncommon for these parameters.

Comparison of 2007 mean values to statewide rankings shows that all parameters with the exception of nitrogen were in the upper quartile. These finding are not a surprise given Creve Coeur is an oxbow lake. Oxbows tend to have shallower depths which can lead to more mixing of bottom sediments and less dilution of inflows, which in-turn leads to greater nutrient and ISS values.



Relative Rank Graph
See page 11 for details

TRENDS

The trend of lower inorganic suspended solids during summer in Creve Coeur Lake continued in 2007, with all values again remaining below the long-term average value. The pattern for lower inorganic suspended solids is one that has been step-wise, with highest values between 1996-2000, moderate values 2001-2004, and lowest values 2005-present. Phosphorus has also been low during the last three summers, well below the long-term average.