

Marceline City Lake

Chariton County

2006 DATA



Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
4/14	44	27	830	20.9	2.6
5/18	62	21	760	13.8	3.2
6/5	42	28	760	7.3	2.3
6/20	53	32	880	17.2	1.3
7/12	24	44	1370	35.3	
7/27	21	45	1360	83.4	4.7
8/9	38	46	910	34.0	2.0
8/22	50	39	810	29.0	2.9
9/27	30	36	1040	24.5	6.3
Mean	38	34	945	23.9	2.8

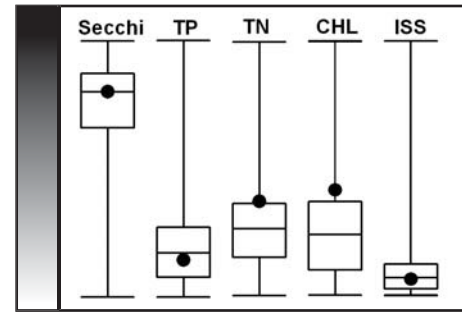
2006 SUMMARY

2006 is the first year of LMVP involvement for Marceline City Lake. It was a good start, with 9 samples collected between April 14 and September 27.

A chlorophyll concentration of 83.4 on July 27 indicates a probable algal bloom. The chlorophyll to phosphorus ratio on that day was nearly 2 to 1, while a typical ratio is around 0.4.

Both July samples were marked by very high nitrogen values and shallow Secchi measurements.

Marceline City Lake's 2006 mean nitrogen and chlorophyll concentrations were higher than is found in 75% of Missouri lakes. All other parameters were near the median for Missouri lakes.



Relative Rank Graph
See page 11 for details

TRENDS

The July nitrogen peak can be seen in this graph. Additionally, the chlorophyll concentrations show a significant increase on July 27.

