

## Boathouse Lake

Ozark Border Region

Boathouse Lake is located in Carondelet Park in St. Louis County. Carondelet Park ranks as the third largest park in the City of St. Louis, at 180 acres. The park's two lakes (the other being Horseshoe) were drained and dredged in 2000. Boathouse Lake is approximately 5 acres. The urban land outside the park almost certainly influences the water quality in Boathouse Lake



Figure 16. Location of Boathouse Lake.

### 2002 Results

Figure 17 shows how the parameters phosphorus, nitrogen, algal chlorophyll, inorganic suspended solids and Secchi transparency varied in Boathouse Lake during the 2002 sampling season. The descriptive statistics appear in Table 7. A brief description of these results:

- Boathouse Lake was sampled twice in 2002 - May 18 and June 22.
- Parameters suggest eutrophic conditions.
- Water quality seems better than one might expect, given the amount of urban development in the watershed.
- Congratulations to our volunteer at Boathouse Lake on the birth of her baby!

Table 7. Descriptive statistics for Boathouse Lake – 2002

Parameters	# of Samples	Geometric Mean	Minimum	Maximum	Median
Secchi Transparency (inches)	2	50	33	68	50
Phosphorus ( $\mu\text{g/L}$ )	2	36	34	38	36
Nitrogen ( $\mu\text{g/L}$ )	2	893	840	950	895
Chlorophyll ( $\mu\text{g/L}$ )	2	11.6	9.8	13.8	11.8
ISS (mg/L)	2	4.9	4.0	6.0	5.0

ISS=Inorganic Suspended Solids

Samples were collected on May 18 and June 22

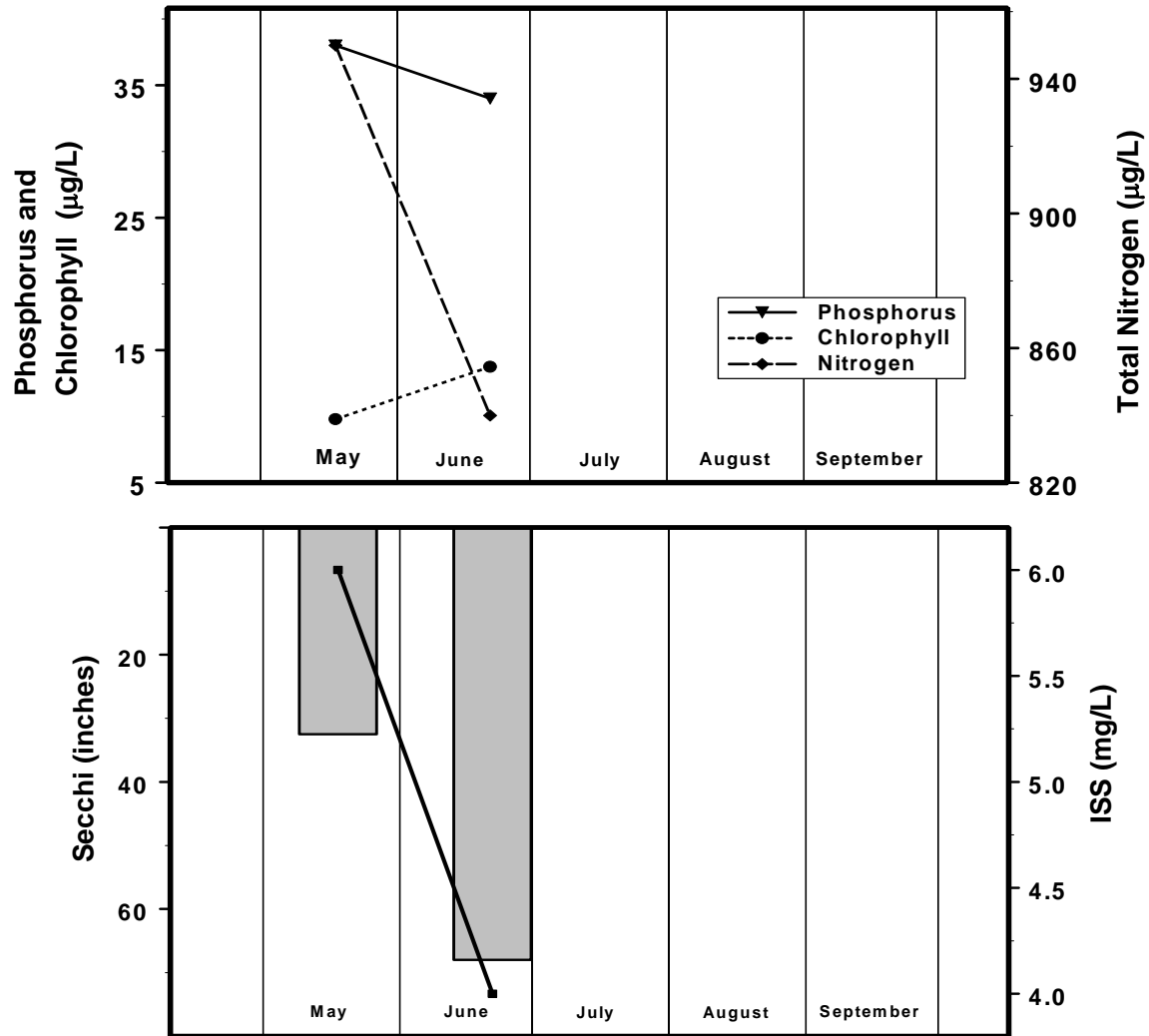


Figure 17. Seasonal fluctuations of parameters for Boathouse Lake – 2002. Bars represent Secchi, line represents ISS. \*(although some parameters may appear quite variable, note the small scale of the axes)