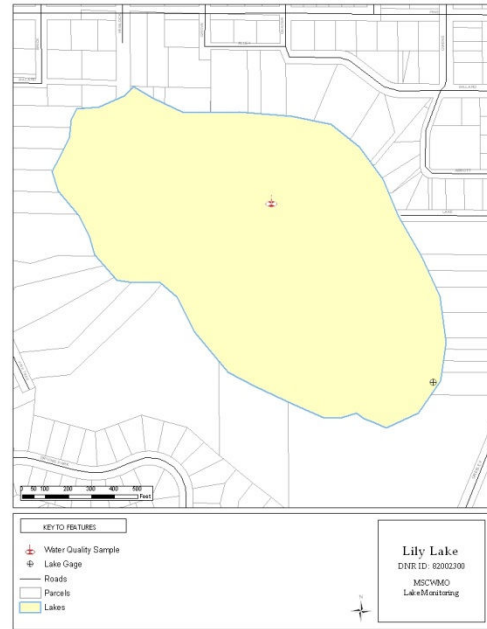


Lily Lake

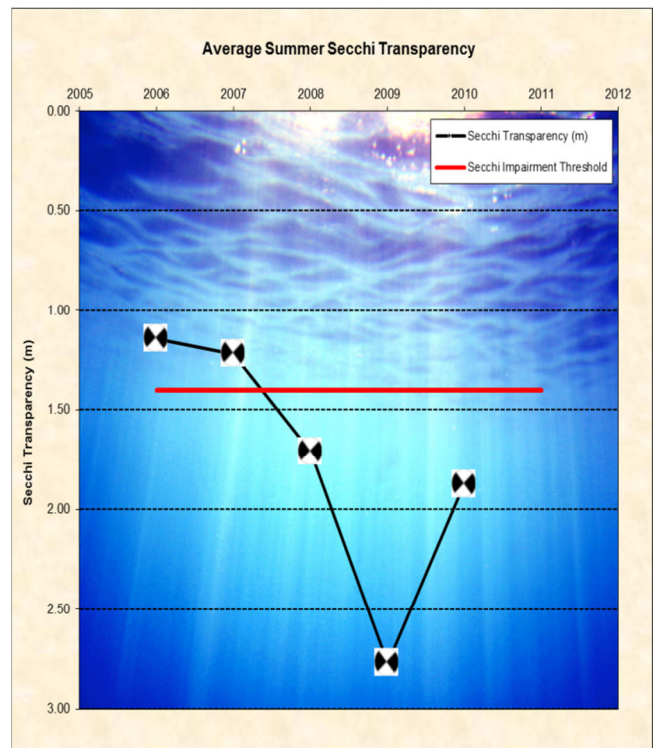
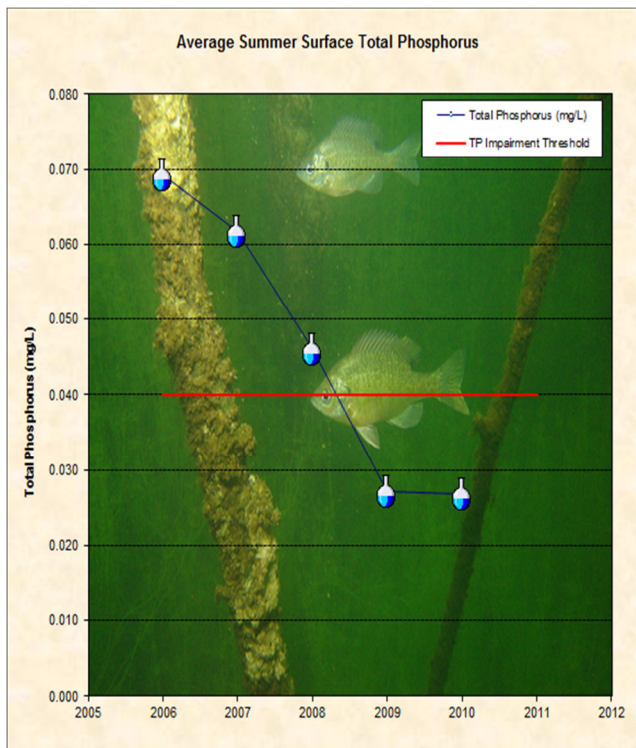
2011 Lake Grade: N/A

- DNR ID #: 820023
- Municipality: City of Stillwater
- Location: NE ¼ Section 32, T30N-R20W
- Lake Size: 35.90 Acres
- Maximum Depth: 51 ft
- Ordinary High Water Mark: 844.8 ft
- 55% Littoral
Note: Littoral area is the portion of the lake <15 ft and dominated by aquatic vegetation.
- Public access and public beach present



Summary Points

- Lily Lake was scheduled to be monitored by a volunteer in 2011, however the volunteer was unable to monitor once the season started. Therefore, no conclusions can be drawn for 2011.
- Lily Lake was considered mesotrophic in **2010**, based on the Carlson Trophic State Index.
- At this time no statistically significant trend can be determined for water quality.
- The major land use is urban/residential.
- Lily Lake is listed as impaired for nutrients on the Minnesota Pollution Control Agency's Impaired Waters List.

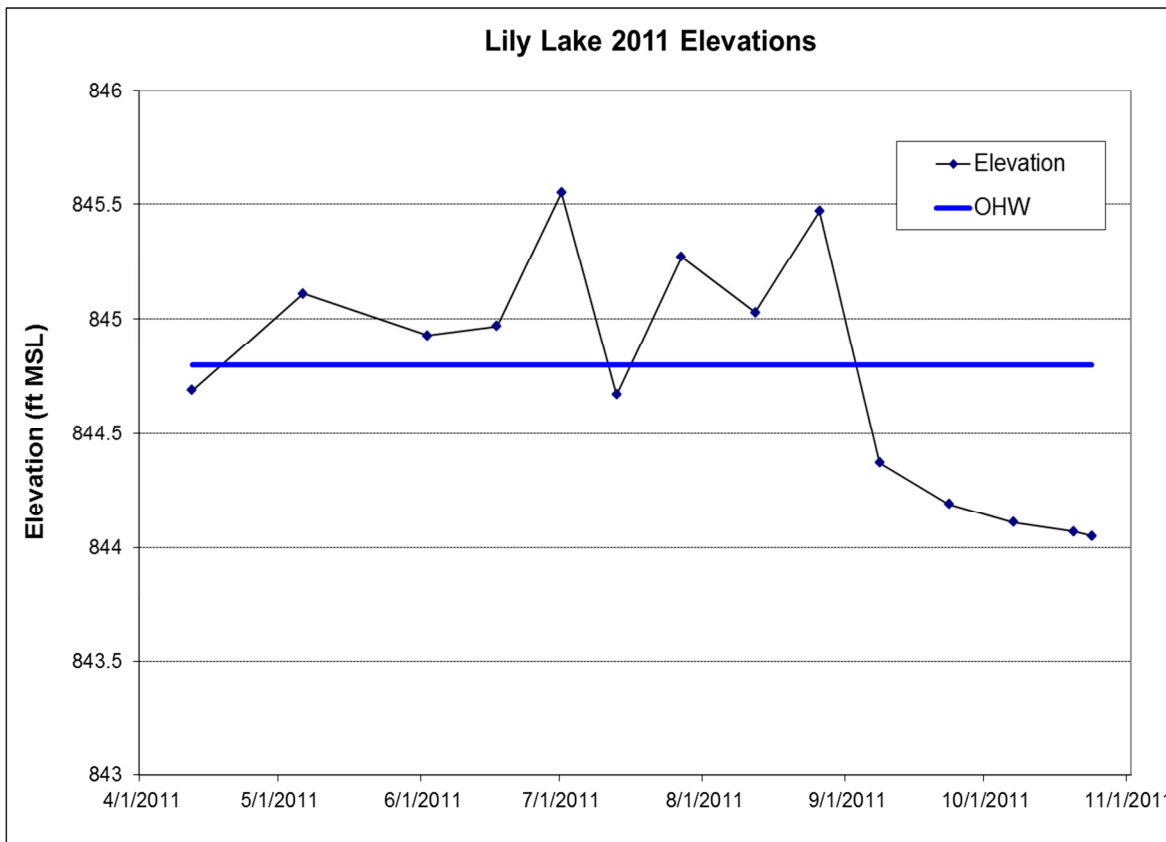


Date	Total Phosphorus (mg/l)	Chlorophyll-a (ug/l)	Total Kjeldahl Nitrogen (mg/L)	Secchi Disk Depths (m)	Surface Dissolved Oxygen Levels (mg/l)	Surface Temperature Levels (Celsius)
Sample I	N/A	N/A	N/A	N/A	N/A	N/A
Sample II	N/A	N/A	N/A	N/A	N/A	N/A
Sample III	N/A	N/A	N/A	N/A	N/A	N/A
Sample IV	N/A	N/A	N/A	N/A	N/A	N/A
Sample V	N/A	N/A	N/A	N/A	N/A	N/A
Sample VI	N/A	N/A	N/A	N/A	N/A	N/A
Sample VII	N/A	N/A	N/A	N/A	N/A	N/A
2011 Average	N/A	N/A	N/A	N/A	N/A	N/A
2011 Summer Average	N/A	N/A	N/A	N/A	N/A	N/A

Water quality thresholds are 0.04 mg/L TP, 14 µg/L CL-a, 1.4 m Secchi depth*

	High	High Date	Low	Low Date	Average
2011 Elevation (ft)	845.55	7/1/2011	844.05	10/24/2011	844.75

*MPCA description of Impaired Lake's Listing criteria: "At a minimum, a decision that a given lake is impaired for the 303(d) list due to excessive nutrients will be supported by data for both causal and response factors. Data requirements for 303(d) listing consist of 12 or more TP measurements collected from June through September over the most recent 10-year period. Ideally this should represent 12 separate visits to the lake over the course of two summers; however it might also reflect four monthly samples over the course of three years (a typical sampling regimen for many lake monitoring programs). In addition to exceeding the TP guideline thresholds, lakes to be considered for 303(d) listing should have at least 12 Secchi measurements and 12 chlorophyll-a measurements. This amount of data will allow for at least one season (preferably more) of paired TP, chlorophyll-a, and Secchi disk data and provide a basis for evaluating their interrelationships and hence



Lake Water Quality Summary											
	Trophic Status	Summertime Lake Grades									
	2011	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002
Total Phosphorus (mg/L)	NA	NA	B	B	C	C	D	C	C	C	C
Chlorophyll-a (ug/L)	NA	NA	C	A	C	C	C	B	B	B	B
Secchi depth (ft)	NA	NA	C	B	C	C	D	C	C	C	C
Overall	NA	NA	C+	B+	C	C	D+	C+	C+	C+	C+