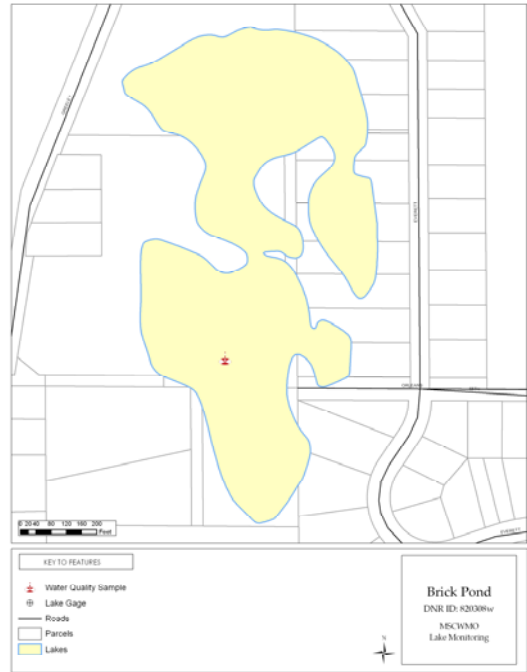


Brick Pond

2010 Lake Grade: B-

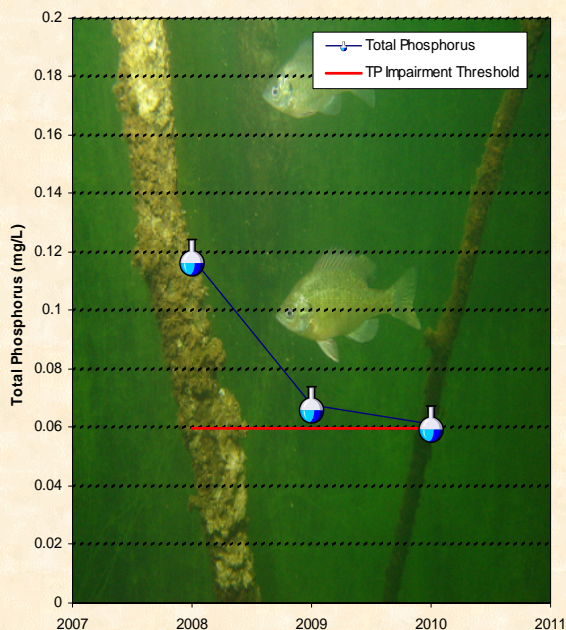
- DNR ID #: 820308
 - Municipality: City of Stillwater
 - Location: NW ¼ Section 33, T30N-R20W
 - Lake Size: 12 Acres
 - Maximum Depth (2010): 2 ft
 - Ordinary High Water Mark: N/A
 - 100% Littoral
- Note: Littoral area is the portion of the lake <15 ft and dominated by aquatic vegetation.



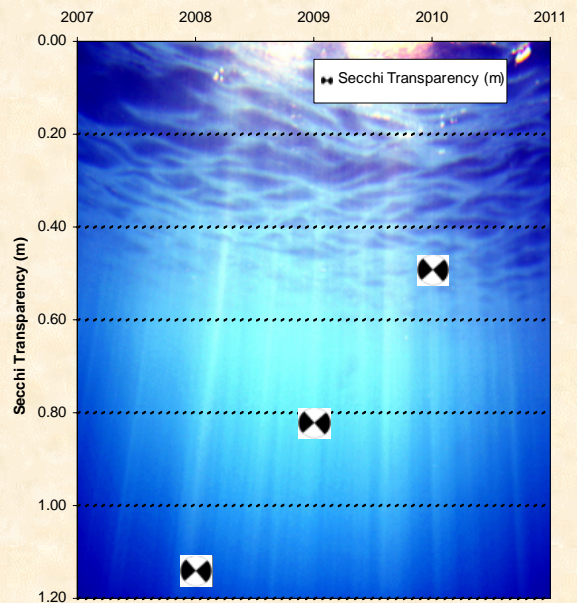
Summary Points

- Brick Pond was considered mesotrophic in 2010, based on the Carlson Trophic State Index.
- At this time there are not enough years of data to determine a statistically significant overall water quality trend.
- The major land use is urban/residential.
- The pond did not stratify in 2010.

Average Summer Surface Total Phosphorus



Average Summer Secchi Transparency



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)
5/3/2010	0.047	4	0.6	0.46	3.42	15.1
5/19/2010	0.07	2.7	0.58	0.91	11.24	19.3
6/28/2010	0.091	15	0.63	0.61	9.26	23.5
7/27/2010	0.065	3.9	0.95	0.46	13.74	30.0
8/24/2010	0.053	8.6	1	0.46	10.82	25.6
9/20/2010	0.036	6	0.58	0.46	14.78	15.4
10/22/2010	0.065	3	0.62	0.30	14.29	7.0
2010 Average	0.061	6.2	0.71	0.52	11.08	19.41
2010 Summer Average	0.061	8.4	0.79	0.50	12.15	23.63
Water quality thresholds are 0.04 mg/L TP, 14 µg/L CL-a, 1.4 m Secchi depth*						
Shallow lake water quality thresholds are 0.06 mg/L TP, 20 µg/L CL-a, 1.0 m Secchi depth*						
	High	High Date	Low	Low Date	Average	
2010 Elevation (ft)	N/A	N/A	N/A	N/A	N/A	
*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 the trophic status of the lake."						

Lake Water Quality Summary												
	Trophic Status	Summertime Lake Grades										
		2010	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Total Phosphorus (mg/l)	Eutrophic	C*	C	D	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophyll-a (ug/l)	Mesotrophic	A	A	A	NA	NA	NA	NA	NA	NA	NA	NA
Secchi depth (ft)	Mesotrophic	C*	C	C	NA	NA	NA	NA	NA	NA	NA	NA
Overall	Mesotrophic	B-	B-	C+	NA	NA	NA	NA	NA	NA	NA	NA
*Adjusted for shallow lake												