

PLEASANT LAKE



QUICK FACTS

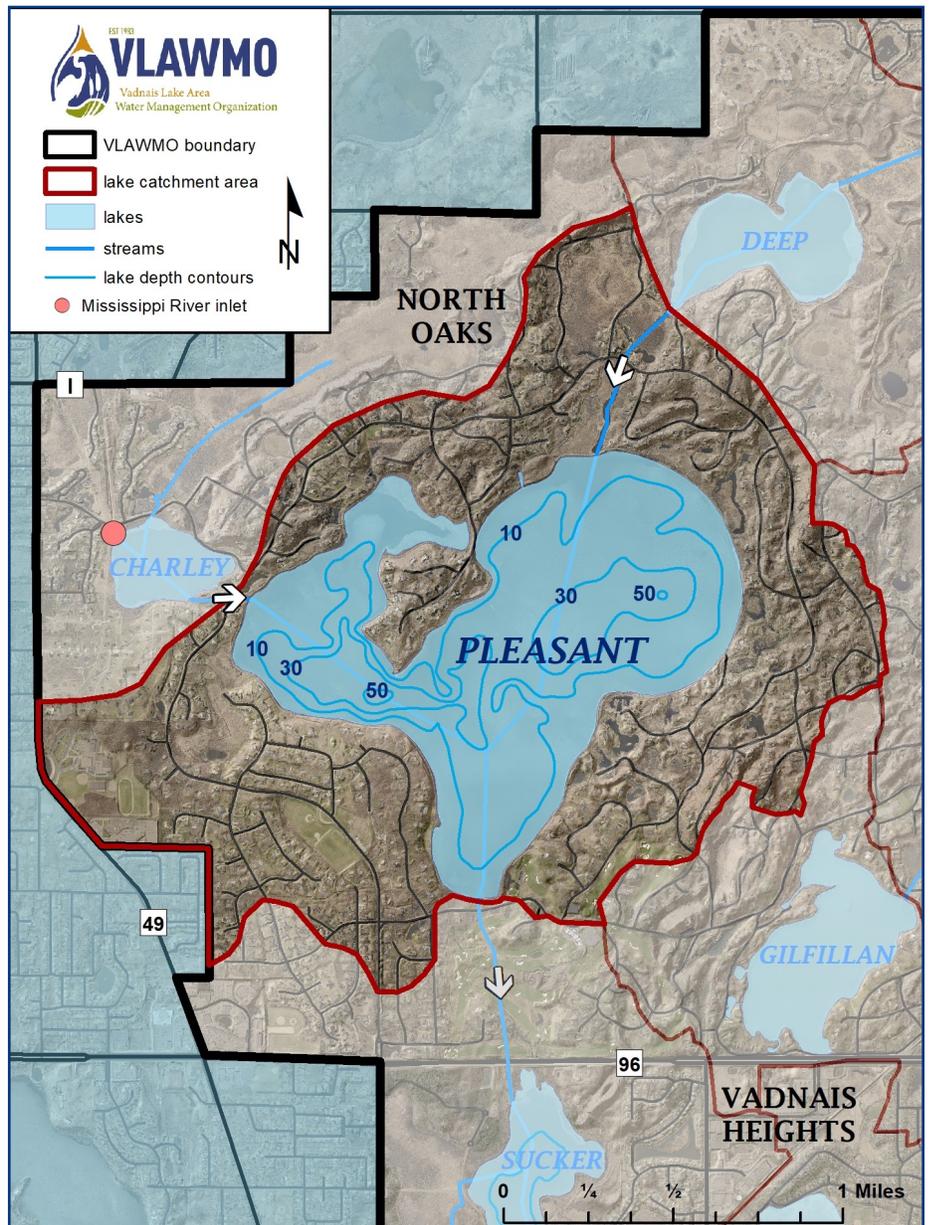
Subwatershed Size	1,852 acres
Surface Area	690 acres
Maximum Depth	58 ft

Common Fish
Carp, Bass, Sunfish, Pike, Walleye

Predominant Vegetation
Coontail, Canada waterweed, Water stargrass

Invasive Species
Zebra mussels, Curlyleaf pondweed, Eurasian watermilfoil, Common carp, Rusty crayfish, Yellow iris, Leafy spurge

LOCATION: Pleasant Lake is the largest and most popular lake in the City of North Oaks. Land use around the lake is primarily residential with large lots. Pleasant receives water from Charley and Deep Lakes, and outlets to the south into Sucker Lake.



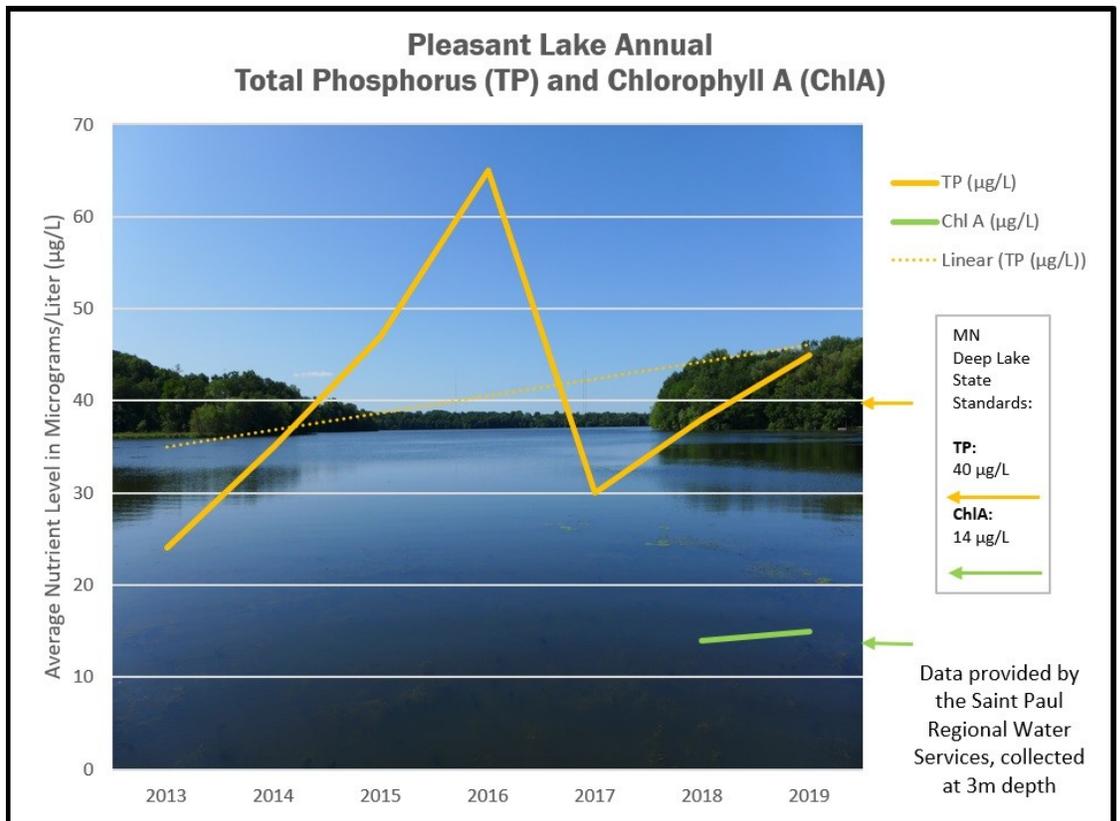
LAKE SUMMARY: Pleasant Lake is managed by the Saint Paul Regional Water Services (SPRWS) in partnership with VLAWMO and the North Oaks Home Owners' Association (NOHOA). It is part of the chain of lakes that moves water from the Mississippi (Fridley) to East Vadnais Lake. It is impaired for mercury in fish tissue. SPRWS collects water quality information for Pleasant Lake. No motorized recreational use is allowed on the lake. An oxygenation system was installed in 2013 to address high Phosphorus levels.

NUTRIENT SUMMARY:

Because Pleasant Lake is classified as a deep lake, it has different water quality standards than VLAWMO's shallow lakes. According to the deep lake standards, Pleasant Lake is impaired for nutrients. Because VLAWMO water monitoring takes water samples at the surface, the SPRWS data (3 meter depth) is inconsistent with other lakes. Starting in 2020, VLAWMO will begin monitoring Pleasant Lake with surface samples.

Trophic State Index (TSI):

A TSI rating is a calculation based on lake data averages. These values are used to compare lakes on a consistent scale.



Pleasant Lake	2019	Clear Oligotrophic		Moderately Clear Mesotrophic		Green Eutrophic		Very Green Hypereutrophic	
		20	30	40	50	60	70	80	
Trophic State Index (TSI): Overall		[Blue bar]				[Green bar with red triangle]		[Green bar]	
TSI Transparency: Secchi Disk		[Blue bar]				[Green bar with red triangle]		[Green bar]	
TSI Chlorophyll A: ChIA		[Blue bar]				[Green bar with red triangle]		[Green bar]	
TSI Total Phosphorus: TP		[Blue bar]				[Green bar with red triangle]		[Green bar]	

CARP STUDIES:

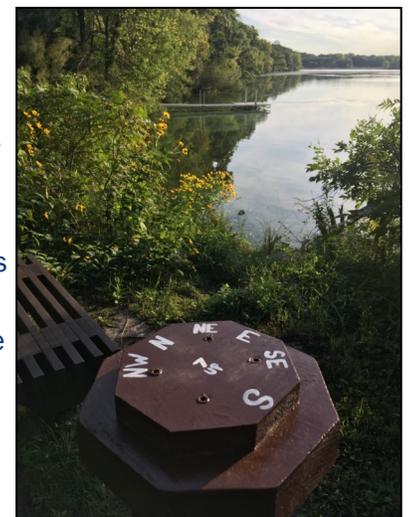


A carp study was initiated in 2019, and a removal effort will extend into 2020. Early findings suggest that Pleasant Lake's carp population

consists primarily of mature adults. These findings support a carp removal effort, indicating that their removal would be effective and result in a water quality improvement. A summary presentation from November, 2019, is recorded and posted online at: <http://www.vlawmo.org/waterbodies/lake-pleasant>

PROJECT HIGHLIGHT:

Two picture posts were installed along the Pleasant Lake shoreline in 2018. Picture posts are tools for monitoring changes in the environment over time (*phenology*). One post is placed at Charley Lake channel inflow and the other at Deep Lake channel inflow. Photos are added by residents using the walking trail. The collection of photos allows the community to monitor the shoreline and track changes in algae blooms, ice in/out, vegetation, and more.



Visit [vlawmo.org/waterbodies](http://www.vlawmo.org/waterbodies) for more resources on Pleasant Lake.