



Overall Health of Arrowhead Lake

Water quality of Arrowhead Lake is poor, measurements for phosphorus and water clarity fail to meet the state standards for shallow lakes. The latest data from 2020 concludes that Arrowhead Lake is impaired. Arrowhead is a land-locked basin with no surface outlet. For that reason, no flushing occurs and nutrients build up in the lake, especially during large rain events. Although more nutrients generally lead to more algal and plant growth, more nutrients do not guarantee more plant diversity. Monitoring teams only catalogued two different plant species in the 2020 plant survey. One of the two plants was an invasive species. Overall Arrowhead lake's water quality is poor and its plant diversity is also poor with invasive species present.



Blue-green algae found in Arrowhead Lake, Edina

Arrowhead Lake Projects

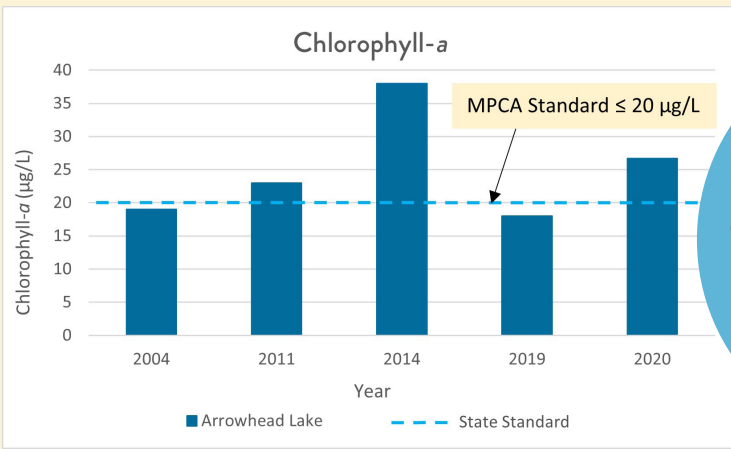
In early 2022, the District completed a lake water quality study that identified potential water quality improvement projects to help improve the overall health of the lakes. The City of Edina also had fisheries surveys done on Arrowhead and Indianhead Lakes. The District has helped fund several best management projects near Arrowhead Lake (including raingradens and shoreline buffers) to help reduce runoff that enters Arrowhead Lake. In early 2024, an alum treatment was conducted to bind phosphorus. For the first time, the District added iron to the treatment, increasing effectiveness. Residents were also offered free soil tests to encourage proper fertilization practices.

Lake Characteristics

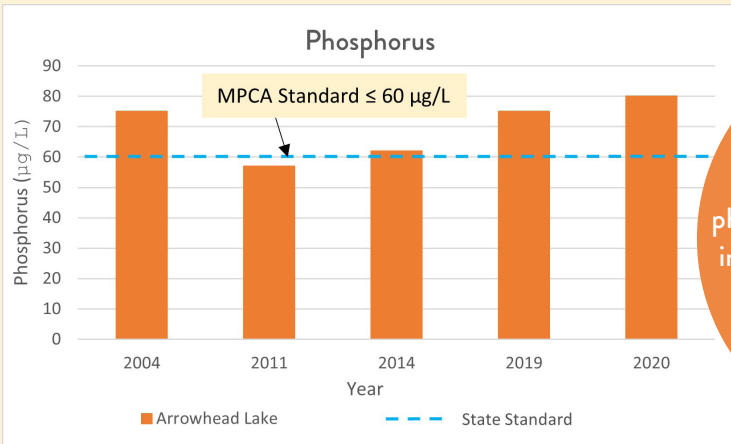
Surface Area	22 acres
Average Depth	7 feet
Watershed Size	178 acres
Location	Edina
Invasive Species	• Purple loosestrife

Arrowhead Lake Watershed

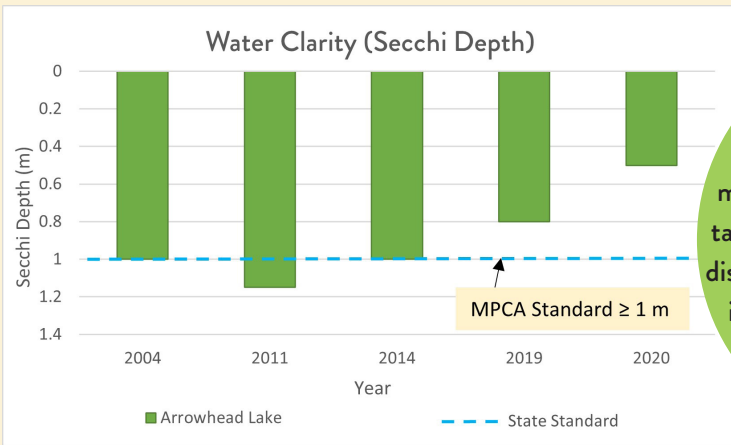




What is Chlorophyll-a ?
 Chl-a is the chemical that makes algae green. High levels of chl-a can mean that there is too much algae in the water. The higher levels of chl-a in Arrowhead Lake indicate that water quality is poor.



What is Phosphorus?
 Phosphorus is a nutrient that algae need to grow. Too much phosphorus can “over-feed” algae in a lake, which can lead to algae blooms. Arrowhead Lake’s high phosphorus levels indicate poorer water quality.



What is Secchi Depth?
 Secchi Depth is a measurement of water clarity. To take the measurements, a Secchi disk is lowered into the water until it is no longer visible. These low Secchi depth values indicate poor water clarity.

Recreation

- Fishing**
Arrowhead Lake does not have public access for fishing. 
- Walking & Biking**
Arrowhead Lake does not have public trails. 
- Parks**
Arrowhead Lake does not have park facilities. 
- Swimming**
No public swimming beach. 
- Boating**
Arrowhead Lake does not have boat access. 

Learn more:
ninemilecreek.org

How Can You Help?

1  

Clean watercraft and water equipment of all aquatic plants and mussels before leaving a body of water.

Why?
 It is important to clean water equipment to reduce the spread of invasive species.

2  

Sweep up leaves, grass clippings, and excess fertilizer from driveways and streets.

Why?
 Sweeping up yard waste will limit the amount of pollution that enters lakes through storm drains.

3  

Dispose of trash and pet waste appropriately.

Why?
 Picking up your trash and pet waste will help keep pollutants out of our lakes and creeks.

4  

Plant native plants in your garden, and water with care.

Why?
 Native plants have long roots that are more efficient at soaking up water and prevent runoff.