



# Milton Reservoir Water Quality Report



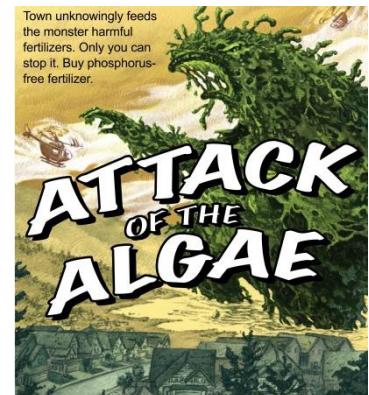
August 9, 2016

## Water Summary

Milton Reservoir (aka Pelican Lake) is sampled twice a month between March and October and monthly between November and February. The Barr Lake and Milton Reservoir Watershed Association coordinates all of the efforts to monitor, test, and improve the water quality in Milton. Regular lake sampling started in 2002 and will continue into the future. It is important to closely monitor water quality to observe any major changes that would impact wildlife, park users, or downstream water users.

**August – Milton** is experiencing a major algal bloom. The oxygen levels are 16 mg/L (241%). Milton is thermally stratified even though it is only 17 feet deep. Usually, Milton will fully mix once the lake drops below 20 feet. The wind was very calm during sampling (at 2pm) and only the top 3 feet of water was mixing. This is a good example of a lake surface heating up during the day, stratifying, and then mixing during the evening with thunderstorms and cooler temperatures. The pH profile shows how thermal stratification can alter water quality down through the water column.

Fertilizers, pet waste, dirt on the road, and leaky cars can send nutrients and other chemicals to the lake. Do your best to keep them out of the water and keep the algae monster under control.



## Watershed News

Save the date for the Annual Stakeholder meeting and BBQ – September 27<sup>th</sup> at Barr Lake. This is a great time to catch up on BMW activities and vote for new board members. Plus, there will be great food.

### Join BMW Association

BARR LAKE AND MILTON RESERVOIR ASSOCIATION

The BMW Association's mission is to improve the water quality by encouraging cooperation, involvement, and awareness with people living near and upstream of Barr Lake and Milton Reservoir.

You can learn more about the lakes and what is going on in the watershed by going to [www.barr-milton.org](http://www.barr-milton.org).

Contact Amy Conklin, watershed coordinator, at [amy.conklin@comcast.net](mailto:amy.conklin@comcast.net) or 303-795-5925.

### Cooperation, Involvement, and Awareness

#### Water Quality Stats (as of 08-09-16)

Maximum Depth: 17.1 feet      Water Temperature: 79.3° F  
(dam outlet)      (taken 3 feet below surface)

Water Clarity: 1.3 feet  
(≥ 3 feet is good)

Dissolved Oxygen: 241%  
(>80% is good)

pH: 9.20  
(between 6 and 9 is good)

Chlorophyll-a: >50 ppb  
(How green, ≤ 25 is good)

