



# Barr Lake Water Quality Report



July 24, 2019

## Water Summary

Barr 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 Barr Lake. 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.

July – This is peak season for algal growth at Barr Lake. The water temperature is close to or at the peak for the summer time high. Blue-green algae, aphanizomenon, are growing lake wide and were close to the surface during lake sampling. These algae can fix nitrogen from the air so it dominates when nitrogen is low and phosphorus is high. This bloom did not happen last year. pH is still below 9.0, but the oxygen is well above 100%. The water level is still about 5 feet higher than normal but is finally dropping. Oxygen has been below 1.0 mg/L at or near the lake bottom since early May due to the lack of mixing and decomposition of dead algae.

Runoff from snow and thunder storms this spring creates lots of flow from our streets, parking lots, and driveways. Do your part by keeping the drains clear of trash and debris.



## Watershed News

City and County of Denver are close to completing a couple of important storm water projects, City Park Golf Course and the Globeville Landing Outfall. Both projects will help keep nutrients from getting to Barr Lake. Storm water in Denver gets to Barr Lake.

## 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.

You can learn more about the lake 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 07-24-19)

Maximum Depth: 31.2 feet (between dam outlets)      Water Temperature: 76.8° F (taken 3 feet below surface)

Water Clarity: 4.3 feet (≥ 3 feet is good)      Dissolved Oxygen: 141.0% (>80% is good)

pH: 8.66 (between 6 and 9 is good)      Chlorophyll-a: >50 ppb (How green, ≤ 25 is good)

Jan	Feb	Mar	Mar	Apr	Apr	May	May	Jun	Jun	Jul	Jul
19/19	2/12/19	3/12/19	3/28/19	4/9/19	4/24/19	5/7/19	5/20/19	6/11/19	6/26/19	7/9/19	7/24/19
21.519	16.867	16.734	15.673	16.584	5.3543	4.4746	6.1449	7.2449	7.0788	6.4972	10.084
23.45	17.939	17.156	15.684	16.74	5.41	4.4763	6.0822	6.969	7.0133	6.4899	9.7934
23.89	18.702	15.838	14.817	16.17	5.3975	4.4706	6.0555	6.9265	6.5947	6.5521	9.6485
24.157	18.791	15.238	14.53	15.851	5.4075	4.4667	6.0376	6.9164	6.0259	6.5951	9.5392
24.109	18.825	15.081	14.136	15.799	5.43	4.4701	6.0142	6.9014	5.5752	6.6234	8.7526
24.12	18.824	14.841	14.085	15.746	5.43	4.4715	6.0245	6.7094	5.53	6.7958	8.5184
24.134	18.792	14.77	13.886	15.7	5.47	4.455	5.9925	6.5659	5.4851	6.8681	8.2284
24.18	18.702	14.746	13.699	15.664	5.4792	4.4527	5.9653	6.3848	5.709	6.8833	8.1076
23.673	18.611	14.616	13.649	15.629	5.52	4.4516	5.9246	6.1424	5.7148	6.8811	7.8005
19.644	18.612	14.051	13.525	15.638	5.52	4.4472	5.8908	5.8376	5.6571	6.9228	7.4504
18.489	18.617	13.793	13.403	15.653	5.56	4.4285	5.5461	5.3714	5.8292	6.7147	7.2793
16.6	18.615	13.387	13.315	15.591	5.55	4.4509	3.7096	4.851	5.9928	6.4666	6.9774
16.863	18.648	13.048	13.18	14.882	5.44	4.4008	3.2944	4.5892	6.1284	4.0777	6.8644
16.898	18.622	12.677	12.988	13.76	5.351	4.0984	2.9804	4.1783	6.127	2.2144	6.8112
15.164	18.6	12.146	12.862	13.235	5.2763	3.0244	2.6708	3.5764	5.8811	0.9421	6.5536
13.285	18.611	11.946	12.685	12.86	5.39	2.612	1.9487	1.5172	5.2172	0.2685	2.1512
5.1372	18.6	12.032	12.566	11.559	5.42	2.2015	1.5677	1.0397	4.7336	0.1462	0.1322
	14.68	11.365	12.471	11.152	5.46	1.8217	1.3412	0.6163	2.566	0.0932	0.0331
	11.973	6.8632	12.088	11	4.9	1.2201	0.9728	0.3232	1.6562	0.093	0.0263
	10.93	4.0299	11.881	10.632	2.25	0.7736	0.5068	0.1214	0.4217	0.0832	0
	4.7578		11.286	10.231	1.32			0.0982	0.0532	0.0509	