

Birch Lake

2014 Data Summary

Birch Lake Snapshot

Years Monitored: 6
Total # of Events: 24
2014 Events: 5
Total Hours Monitored: 88.0

Observations

Wildlife Observed:

Arctic tern
Beaver
Cranes
Loons (with chicks)
Moose (Cow and newborn)
Muskrat
Ravens
Swans
Wood frogs

Water Level:

High in the spring, then medium

Water Color:

Blue-green
Green

Algae:

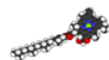
None

Aquatic Plants:

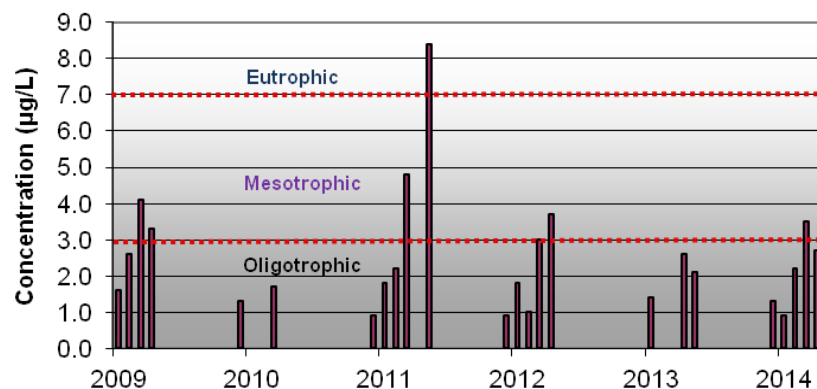
Sparse to moderate; floating water lilies and grasses that bend at waterline; shoreline.

Additional Comments:

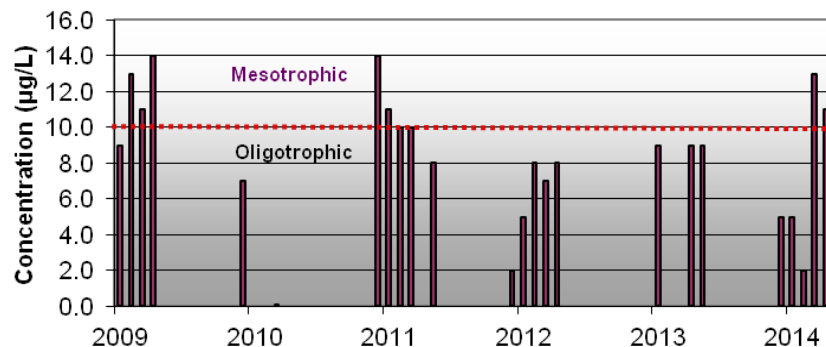
Another record high water level in May.



Birch Lake • Chlorophyll a 2009-2014



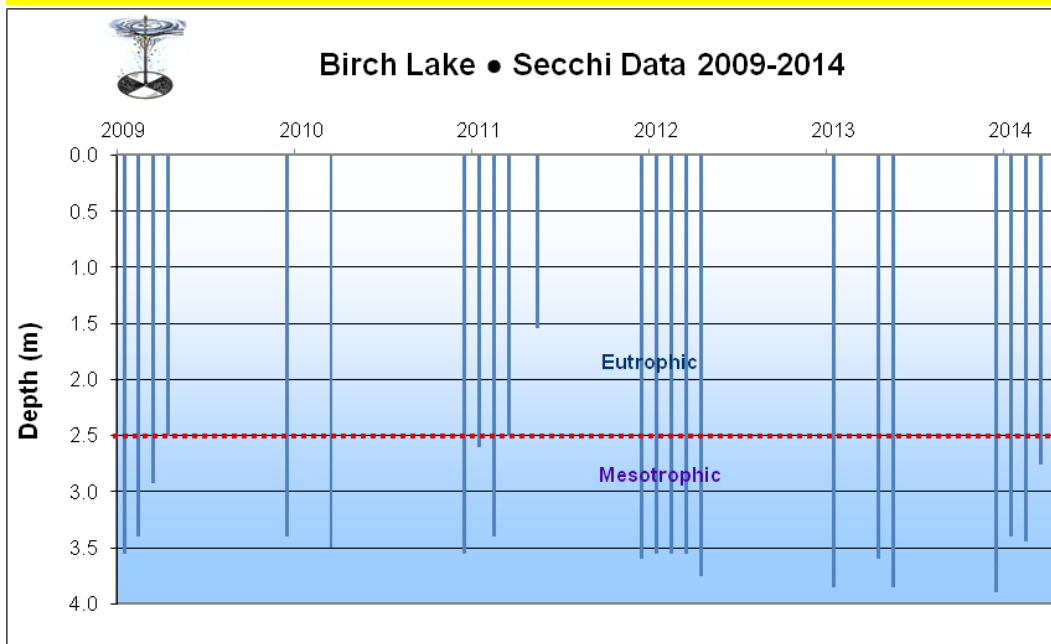
Birch Lake • Phosphorus 2009-2014



Birch Lake Profile Measurements

Birch Lake		Depth (m)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)	
Date	9/29/2014	0.0	8.86	0.018	11.97	7.48	2.34	
Site Depth (m)	3.70	1.0	8.88	0.017	11.79	7.26		
Phosphorus (µg/L)	11.0	2.0	8.87	0.017	11.77	7.22		
Chlorophyll a (µg/L)	2.7	3.0	8.88	0.017	11.71	7.20		
Date	8/21/2014	0.0	20.39	0.018	9.43	8.08	2.76	
Site Depth (m)	3.60	1.0	20.07	0.019	9.78	7.88		
Phosphorus (µg/L)	13.0	2.0	19.31	0.018	9.76	7.77		
Chlorophyll a (µg/L)	3.5	3.0	19.08	0.019	9.83	7.68		
Date	7/23/2014	0.0	21.70	0.017	8.76	7.97	3.45	
Site Depth (m)	3.45	1.0	21.70	0.017	8.63	7.91		
Phosphorus (µg/L)	2.0	2.0	21.47	0.017	8.55	7.92		
Chlorophyll a (µg/L)	2.2	3.0	21.44	0.017	8.49	7.89		
Date	6/15/2014	0.0	17.68	0.017	10.33	8.36	3.40	
Site Depth (m)	3.40	1.0	17.65	0.017	10.37	8.23		
Phosphorus (µg/L)	5.0	2.0	17.51	0.018	10.18	8.21		
Chlorophyll a (µg/L)	0.9	3.0	17.38	0.018	10.52	8.30		
Date	5/11/2014	0.0	14.62	0.017	10.91	7.67	3.90	
Site Depth (m)	3.90	1.0	14.37	0.017	10.99	7.51		
Phosphorus (µg/L)	5.0	2.0	13.23	0.017	11.39	7.33		
Chlorophyll a (µg/L)	1.3	3.0	12.47	0.017	12.73	7.24		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	Max
3.5	13.0	3.90	21.70	0.019	12.73	8.36	3.90	Min
0.9	2.0		8.86	0.017	8.49	7.20	2.34	Med
2.2	5.0		17.58	0.017	10.35	7.83	3.40	Ave
2.1	7.2		16.28	0.017	10.39	7.76	3.17	StDev
1.0	4.6		4.68	0.001	1.26	0.38	0.62	

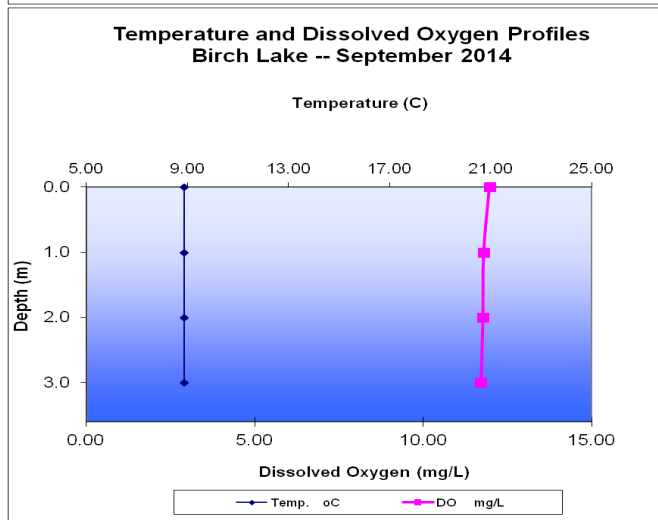
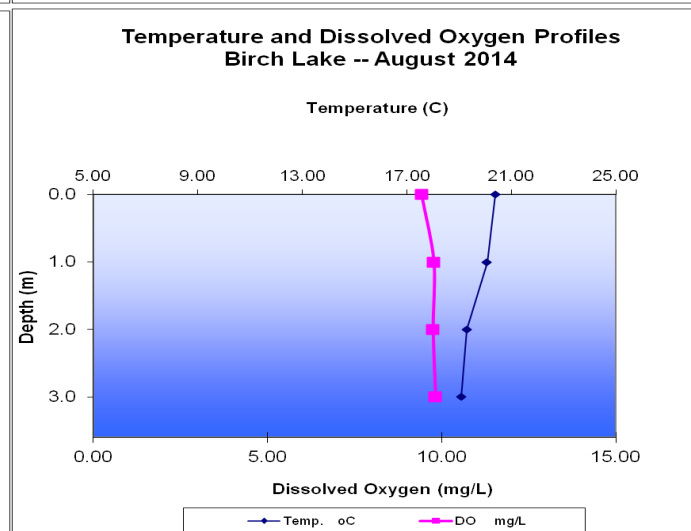
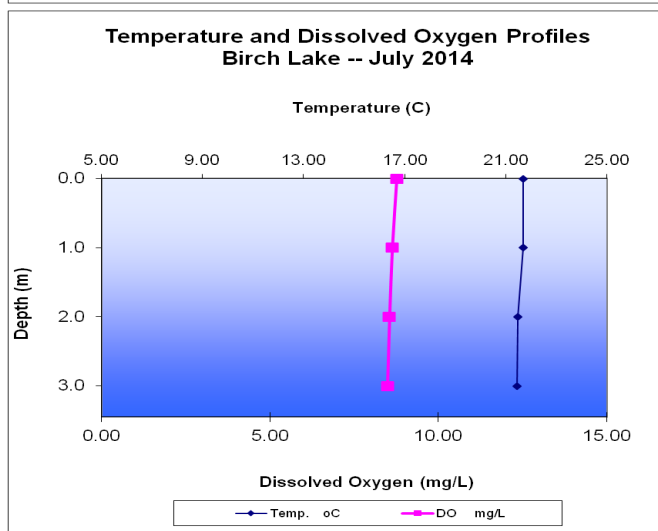
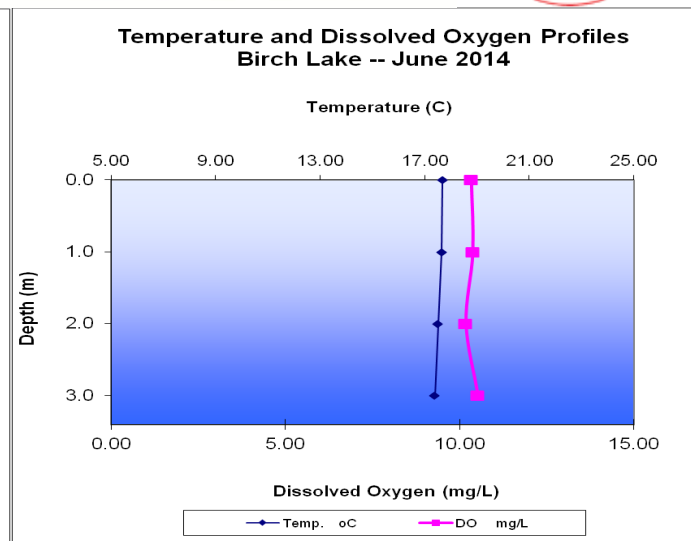
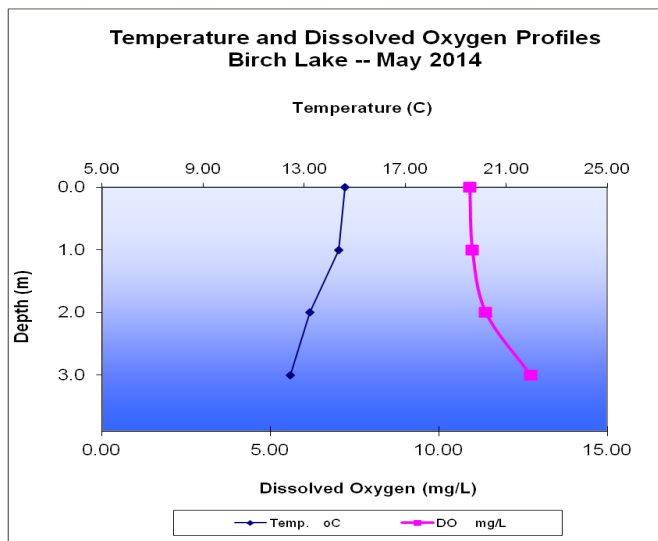
Highlighted data does not meet Alaska Water Quality Standards (WQS)



The Alaska Water Quality Standards do not apply absolutely to lakes without taking multiple factors into account. For more information on WQS, please see <http://www.dec.state.ak.us/water/wqsar/wqs/>.



Matanuska-Susitna Borough Volunteer Lake Monitoring Program



Cow moose with calf