

Wasilla Lake 2014 Data Summary

Wasilla Lake Snapshot

Years Monitored: 5
 Total # of Events: 31
 2014 Events: 6
 Total Hours Monitored: 99.5

Observations

Wildlife Observed:

Arctic and pacific loons
 Bald eagle
 Decaying salmon
 Dragonflies
 Grebes
 Gulls
 Jumping fish

Water Level:

Medium to high

Water Color:

Light green
 Yellowish green
 Green

Algae:

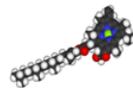
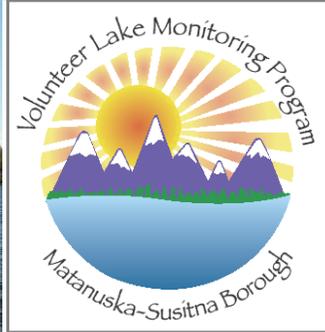
None to moderate

Aquatic Plants:

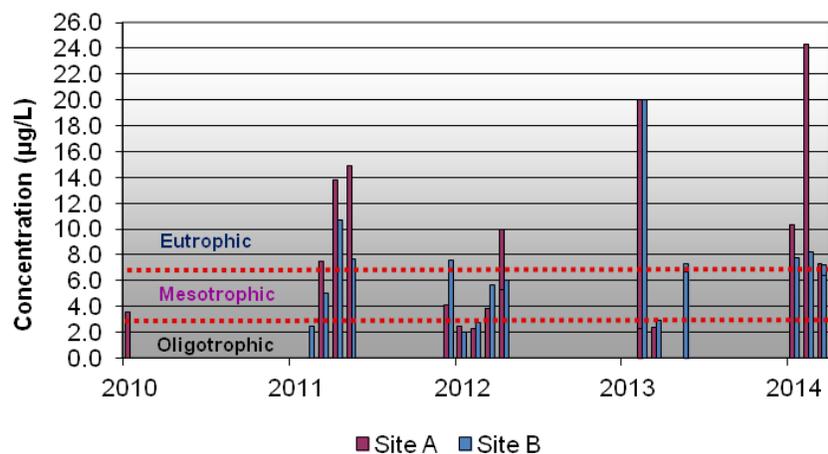
None to heavy; emergent grasses and floating water lilies on north shore of site B. Submerged and thick by Fred Meyer on south shore of site A and north peninsula, floating water lilies on NE shore before channel between two basins.

Additional Comments:

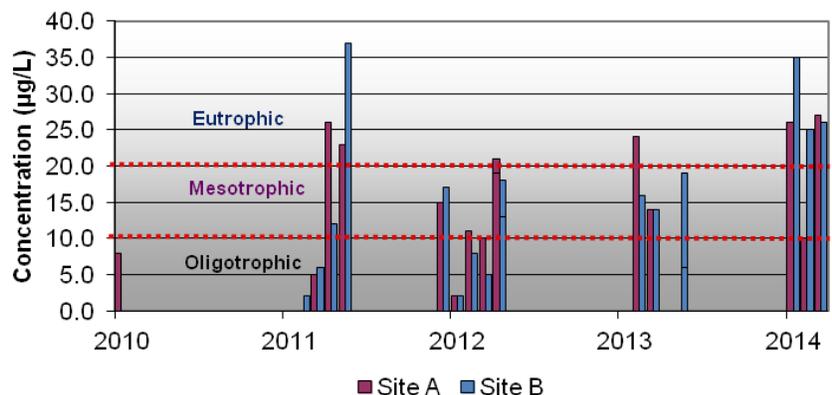
Algae and aquatic plants are more abundant in site A.



Wasilla Lake • Chlorophyll a 2010-2014



Wasilla Lake • Phosphorus 2010-2014



Lower Wasilla Lake - Site A Profile Measurements

Wasilla Lake Site A		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)	
Date	8/22/2014	0.0	17.44	0.243	10.71	8.54	3.13	
		1.0	17.43	0.243	10.68	8.59		
Site Depth (m)	12.00	2.0	17.38	0.242	10.71	8.61		
		3.0	15.93	0.244	10.57	8.58		
Phosphorus (µg/L)		4.0	15.49	0.248	9.78	8.46		
at 2 m	8.0	5.0	15.43	0.245	9.31	8.38		
at 9 m	27.0	6.0	15.17	0.248	8.28	8.16		
Chlorophyll a (µg/L)		7.0	14.78	0.252	6.99	7.90		
at 2 m	5.4	8.0	12.79	0.288	1.14	7.53		
at 9 m	7.3	9.0	8.68	0.318	0.17	7.38		
		10.0	8.51	0.327	0.12	7.24		
		11.0	7.61	0.333	0.11	7.21		
Date	7/29/2014	0.0	19.24	0.235	10.75	8.60	2.89	
		1.0	18.24	0.235	10.92	8.75		
Site Depth (m)	8.10	2.0	18.05	0.236	10.77	8.77		
		3.0	17.94	0.237	10.62	8.74		
Phosphorus (µg/L)		4.0	17.90	0.237	10.78	8.75		
at 2 m	2.0	5.0	17.80	0.239	10.93	8.73		
at 7 m	10.0	6.0	14.78	0.278	9.34	8.30		
Chlorophyll a (µg/L)		7.0	11.86	0.301	6.11	7.98		
at 2 m	6.6	8.0	10.46	0.309	3.05	7.73		
at 7 m	24.3							
Date	6/27/2014	0.0	15.72	0.245	10.47	8.56	4.00	
		1.0	15.65	0.245	10.53	8.64		
Site Depth (m)	10.15	2.0	15.47	0.246	10.64	8.66		
		3.0	15.41	0.246	10.63	8.66		
Phosphorus (µg/L)		4.0	15.24	0.248	11.12	8.62		
at 2 m	5.0	5.0	14.19	0.265	12.20	8.74		
at 6 m	26.0	6.0	12.38	0.278	12.22	8.68		
Chlorophyll a (µg/L)		7.0	9.84	0.300	7.96	8.06		
at 2 m	1.1	8.0	9.16	0.305	5.82	7.81		
at 6 m	10.3	9.0	8.07	0.311	3.34	7.67		
		10.0	6.83	0.321	0.16	7.44		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	
24.3	27.0	12.00	19.24	0.333	12.22	8.77	4.00	Max
1.1	2.0		6.83	0.235	0.11	7.21	2.89	Min
7.0	9.0		15.33	0.248	10.50	8.55	3.13	Med
9.2	13.0		14.09	0.267	8.03	8.26	3.34	Ave
8.0	10.8		3.64	0.033	4.03	0.51	0.58	StDev

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



Decaying red salmon

Upper Wasilla Lake - Site B Profile Measurements

Wasilla Lake Site B		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)	
Date	8/22/2014	0.0	18.30	0.226	10.47	8.45	2.43	
Site Depth (m)	8.20	1.0	17.86	0.227	10.61	8.51		
		2.0	17.44	0.228	10.63	8.50		
Phosphorus (µg/L)		3.0	16.05	0.231	9.66	8.37		
at 2 m	15.0	4.0	15.37	0.232	8.17	8.13		
at 7 m	26.0	5.0	15.10	0.231	6.21	7.88		
Chlorophyll a (µg/L)		6.0	14.71	0.236	2.88	7.61		
at 2 m	7.2	7.0	14.49	0.240	1.40	7.39		
at 7 m	6.4	8.0	13.56	0.272	0.18	7.25		
Date	7/29/2014	0.0	18.92	0.218	9.64	8.47	3.18	
Site Depth (m)	8.30	1.0	18.67	0.218	9.68	8.59		
		2.0	18.23	0.218	9.68	8.62		
Phosphorus (µg/L)		3.0	18.01	0.218	9.35	8.60		
at 2 m	2.0	4.0	17.80	0.222	8.32	8.41		
at 5.5 m	25.0	5.0	16.69	0.240	4.52	7.86		
Chlorophyll a (µg/L)		6.0	13.45	0.273	0.31	7.58		
at 2 m	4.3	7.0	11.73	0.296	0.07	7.35		
at 5.5 m	8.2	8.0	10.81	0.330	0.07	7.29		
Date	6/27/2014	0.0	16.02	0.226	10.80	8.84	2.00	
Site Depth (m)	8.35	1.0	16.02	0.226	10.82	8.86		
		2.0	15.96	0.225	10.88	8.86		
Phosphorus (µg/L)		3.0	15.72	0.225	10.74	8.82		
at 2 m	9.0	4.0	15.15	0.232	9.46	8.51		
at 7 m	35.0	5.0	13.52	0.251	5.22	7.83		
Chlorophyll a (µg/L)		6.0	12.14	0.262	0.23	7.60		
at 2 m	5.7	7.0	11.10	0.278	0.14	7.50		
at 7 m	7.8	8.0	10.15	0.297	0.13	7.46		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	
8.2	35.0	8.35	18.92	0.330	10.88	8.86	3.18	Max
4.3	2.0		10.15	0.218	0.07	7.25	2.00	Min
6.8	20.0		15.72	0.231	8.32	8.37	2.43	Med
6.6	18.7		15.30	0.244	6.31	8.12	2.53	Ave
1.4	12.2		2.55	0.029	4.44	0.56	0.59	StDev

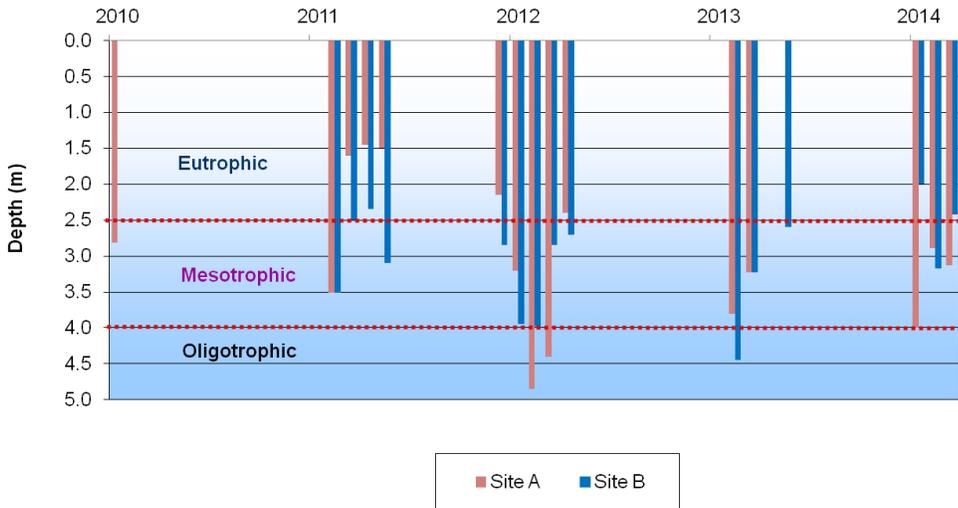
Highlighted data does not meet Alaska Water Quality Standards (WQS).

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/>.

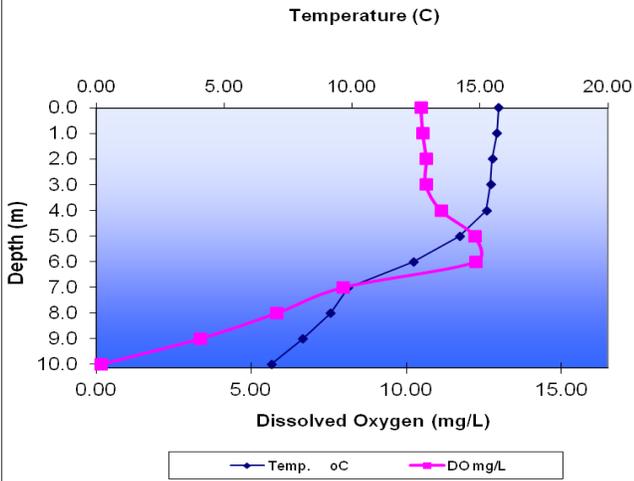




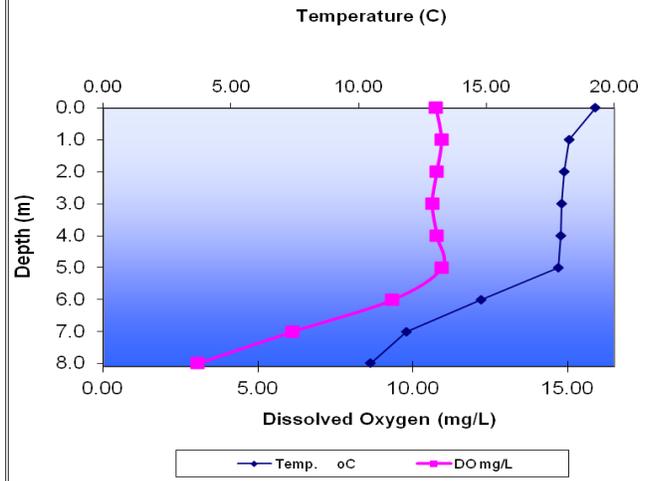
Wasilla Lake Sites A & B • Secchi Data 2010-2014



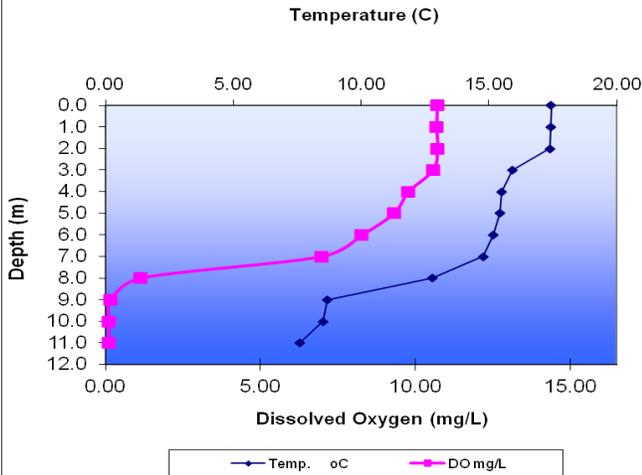
Temperature and Dissolved Oxygen Profile Wasilla Lake Site A - June 2014



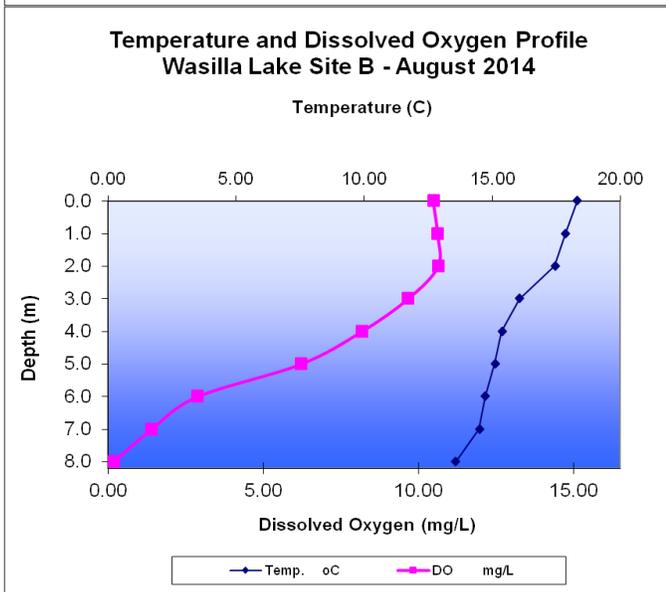
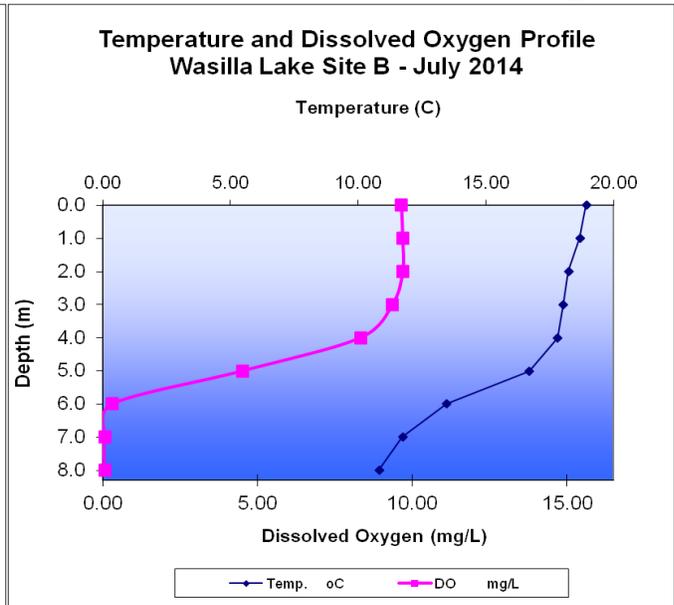
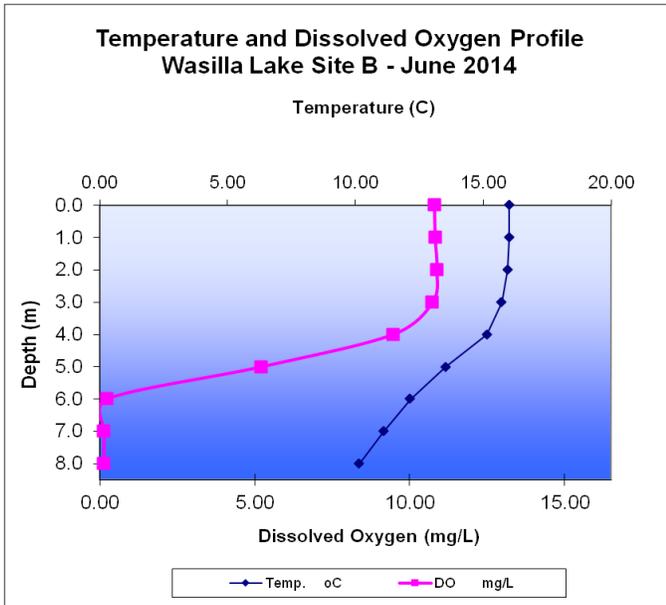
Temperature and Dissolved Oxygen Profile Wasilla Lake Site A - July 2014



Temperature and Dissolved Oxygen Profile Wasilla Lake Site A - August 2014



Matanuska-Susitna Borough Volunteer Lake Monitoring Program



Matt McMillan recording data



Bald eagle