2017 Lake Owassa Water Quality Results

Spring Test
Sunday, June 4, 2017
11:00 am - 12:15 pm
62°F, Cloudy, light rain
Wind: E-SE under 5 mph

Location	Depth feet	DO % Sat	DO mg/L	Temp °F	Conductivity mS/cm	pH Units	Turbidity NTU	NH4+ mg/L-N	NO3- mg/L-N	Secchi Disk	Phosphates
cove	1	117.7	8.86	66.90	0.1499	7.27	1.7	0.09	2.56		0.025
outlet	1	118.5	8.91	67.75	0.1495	7.31	1.2	0.08	2.32		0.02
mid-lake 1	1	117.6	9.08	66.63	0.1492	7.29	1.6	0.08	2.21		
mid-lake 3	3	115.4	8.67	65.68	0.1489	7.17	1.5	0.09	2.28		
mid-lake 6	6	112.4	8.83	65.07	0.1483	7.41	1.9	0.12	2.45		
mid-lake 10	10	89.5	6.98	62.92	0.1486	6.86	1.5	0.1	2.61	31"	
mid-lake 15	15	74.3	3.38	59.54	0.1525	6.43	13.6	0.15	3.45		
stream	1	118.1	8.97	66.76	0.1481	7.3	1.7	0.09	3.03		0.017
upper lake	1	118.9	9.01	65.91	0.1487	7.32	1.7	0.08	2.39		
storm drain	1	113.1	8.51	65.53	0.1483	7.14	1.7	0.08	3.34		
inlet	1	114.2	8.39	65.57	0.1484	7.1	0.8	0.08	2.59		0.023

> 70 fair	> 4 = Fair	< 80 = good	< 0.5 = good	6.5 - 8.2	< 40 good	< 1 = good	< 5=fair	< 0.1 = good
>90 Best	> 6 Best			optimal	10 excellent		< 3 = good	< 0.05 = best
							< 2 = excellent	

August Test

Sunday, August 6, 2017

6:15 pm - 8:30 pm

74°F, partly cloudy, 0.75" of rain in morning ; 6.1" total rainfall in July

Wind: SW 5 mph.

Location	Depth feet	DO % Sat	DO mg/L	Temp °F	Conductivity mS/cm	pH Units	Turbidity NTU	NH4+ mg/L-N	NO3- mg/L-N	Secchi Disk	Phosphates mg/L
cove	1	149.2	9.51	78.22	0.1568	8.88	14.4	0.42	3.02		0.039
outlet	1	143.1	9.16	77.95	0.1555	9.15	22.4	0.37	3.22		0.046
mid-lake 1	1	144.4	9.9	76.93	0.1518	9.1	23	0.21	2.91		
mid-lake 3	3	143.3	9.83	76.69	0.1522	9.05	22.7	0.21	3.22		
mid-lake 6	6	137.8	9.37	76.51	0.1508	8.94	22.5	0.23	3.25		
mid-lake 10	10	110.7	7.1	71.89	0.1585	7.83	21.7	0.45	3.36	16"	
mid-lake 15	15	35.3	2.5	71.15	0.1507	6.71	13	1.34	3.03		
stream	1	131.5	9.11	76.12	0.1504	8.83	14.1	0.18	2.67		0.034
upper lake	1	133	9.22	76.12	0.1508	8.83	12.6	0.19	3.73		
storm drain	1	149.5	10.3	75.96	0.1508	8.62	17.8	0.17	3.57		
inlet	1	124.2	8.63	75.38	0.1465	8.52	15.2	0.19	2.73		0.033

> 70 fair	> 4 = Fair	< 80 = good	< 0.5 = good	6.5 - 8.2	< 40 good	< 1 = good	< 5=fair	< 0.1 = good
>90 Best	> 6 Best			optimal	10 excellent		< 3 = good	< 0.05 = best
							< 2 = excellent	

October Test

Friday, October 6, 2017

3:30pm - 5:30pm

80°F, partly cloudy (50%)

Wind: calm

Location	Depth feet	DO % Sat	DO mg/L	Temp °F	Conductivity mS/cm	pH Units	Turbidity NTU	NH4+ mg/L-N	NO3- mg/L-N	Secchi Disk	Phosphates mg/L	Chlorophyll a µg/L
cove	1	107.6	8.00	70.60	0.1501	7.69	8.9	0.12	1.32		0.043	3.45
outlet	1	113.6	8.35	71.60	0.1499	7.81	9.8	0.1	1.72		0.034	3.24
mid-lake 1	1	105.4	8.35	69.50	0.1498	7.63	8	0.1	1.9			3.47
mid-lake 3	3	102.7	7.82	68.40	0.1495	7.57	8.3	0.09	2.26			3.56
mid-lake 6	6	99.0	7.55	67.70	0.1496	7.45	8.4	0.08	2.34			4.08
mid-lake 10	10	83.6	6.43	66.30	0.1493	7.28	8.1	0.08	2.81	33.5"		3.75
mid-lake 15	15	40.1	3.15	64.60	0.151	6.85	11.2	0.12	3.02			3.10
stream	1	97.1	7.30	69.00	0.1506	7.38	8.7	0.09	2.23		0.038	4.20
upper lake	1	105.9	8.06	68.60	0.1497	7.63	8.4	0.09	2.3			3.31
storm drain	1	95.7	7.20	67.80	0.1495	7.4	9.7	0.09	2.41			3.04
inlet	1	93.1	6.86	67.80	0.1491	7.42	8.3	0.09	2.32		0.037	3.47
		> 70 fair >90 Excellent	> 4 = Fair > 6 Best	< 80 = good	< 0.5 good	6.5 - 8.2 optimal	< 40 good < 10 best	< 1 = good	< 5=fair < 3 = good < 2 = excellent		< 0.1 = good < 0.05 = best	2 to 12µ/L