

AMBIENT LAKE MONITORING NETWORK

Lake Name: Lower Sylvan Lake

County: BURLINGTON

SiteID: NJW04459-181

Municipality: BURLINGTON TWP

Surface to Bottom Profile

Season: Spring

Station	Tot. Depth (M)	Profile Depth (M)	Secchi (M)	Water Temp (C)	DO (mg/L)	DO (%Sat)	pH (SU)	Conductivity (mS/cm)
1	3.2	1	1.5	10.45	11.05	98.5	6.27	0.301
1	3.2	2	1.5	10.31	11.05	98.2	6.53	0.301
1	3.2	3	1.5	10.07	8.9	78.7	6.57	0.302
2	2.9	1	1.4	11.5	11.11	101.5	6.93	0.306
2	2.9	2	1.4	11.1	11.08	100.3	6.99	0.306
3	4.9	1	1.3	10.8	10.95	98.5	6.93	0.306
3	4.9	2	1.3	10.39	10.66	94.9	6.97	0.305
3	4.9	3	1.3	10.14	9.46	84	6.95	0.307
3	4.9	4	1.3	8.88	4.57	39.3	6.83	0.33

Season: Summer

Station	Tot. Depth (M)	Profile Depth (M)	Secchi (M)	Water Temp (C)	DO (mg/L)	DO (%Sat)	pH (SU)	Conductivity (mS/cm)
1	3.2	1	0.9	24.48	8.1	98.5	7.56	0.221
1	3.2	2	0.9	19.5	0.86	9.8	7.11	0.229
1	3.2	3	0.9	13.09	0.12	1.2	6.9	0.309
2	2.8	1	1	26.11	9.65	120.8	7.18	0.21
2	2.8	2	1	19.91	0.84	9.5	6.9	0.226
2	2.8	2.5	1	16.23	0.7	7.3	6.75	0.254
3	4.9	1	2.2	24.23	10.53	127.4	8.26	0.211
3	4.9	2	2.2	19.34	1.13	12.5	7.54	0.229
3	4.9	3	2.2	14.1	0.22	2.1	7.23	0.271
3	4.9	4	2.2	10.65	0.16	1.5	7.05	0.349

Season: Fall

Station	Tot. Depth (M)	Profile Depth (M)	Secchi (M)	Water Temp (C)	DO (mg/L)	DO (%Sat)	pH (SU)	Conductivity (mS/cm)
1	3.2	1	0.8	20.28	6.21	68.6	6.88	0.205
1	3.2	2	0.8	20.15	4.32	47.6	6.82	0.207
1	3.2	3	0.8	18.96	0.18	1.9	6.58	0.224
2	2.9	1	1.1	19.93	3.49	38.2	6.8	0.202
2	2.9	2	1.1	19.84	3.72	40.7	6.75	0.204
3	4.8	1	1.1	19.94	4.7	51.5	6.85	0.202
3	4.8	2	1.1	19.86	2.75	30.1	6.78	0.2
3	4.8	3	1.1	18.53	0.14	1.5	6.56	0.251
3	4.8	4	1.1	14.58	0.09	0.9	6.51	513
3	4.8	4.5	1.1	12.53	0.08	0.7	6.59	0.653

-Secchi measurements are not recorded for outlets.

-A blank Secchi measurement for lake stations means that an accurate measurement could not be recorded.

-A blank parameter result means the parameter could not be measured due to a meter malfunction.

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Lake Profile Raw Data

Season: Spring

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.025	0.731	0.423	0.0244	27.25	32	59.0	3.85
2	0.024	0.685	0.427	0.00965	26.85	29	60.1	3.33
3	0.024	0.751	0.437	0.0145	27.54	14	23.3	3.48

Season: Summer

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.035	0.894	0.164	0.0163	41.07	58	57.5	3.4
1A	0.116	1.52	0.0336	0.0368	135.4	60	63.1	18.2
2	0.023	0.934	0.128	0.0078	31.92	49	56.9	2.98
2A	0.107	1.7	0.0238	0.0343	161.79	32	61.5	24.7
3	0.036	0.845	0.144	0.0297	41.13	35	56.6	3.8
3A	0.12	2.24	0.0244	0.933	98.14	40	63	13.7

Season: Fall

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.104	1.44	0.0886	0.148	38.2	35	54.1	14.5
2	0.071	0.954	0.0646	0.292	78.91	30	48.1	8.07
3	0.089	0.954	0.0590	0.169	66.65	25	47.6	11.8
3A	0.869	7.29	0.0185	6.42	45.12	58	69.1	8.75

Sample Device - Horizontal Polycarbonate Sampler

"ND" indicates the result is at a concentration below the analytical method's Reporting Limit (RL). See Volume I, Methods.

-A blank parameter result means the parameter could not be analyzed due to laboratory error.