

AMBIENT LAKE MONITORING NETWORK

Lake Name: Gardners Pond

County: SUSSEX

SiteID: NJW04459-075

Municipality: ANDOVER 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	10.2	1	2.3	17.05	7.71	82.6	8.14	0.427
1	10.2	2	2.3	16.87	7.61	81.3	8.13	0.428
1	10.2	3	2.3	15.95	6.45	67.6	7.72	0.437
1	10.2	4	2.3	13.49	9.83	97.7	8.23	0.436
1	10.2	5	2.3	9.35	11.23	101.5	8.29	0.437
1	10.2	6	2.3	7.42	9.4	81	7.87	0.441
1	10.2	7	2.3	6.7	7.25	61.5	7.65	0.441
1	10.2	8	2.3	6.16	4.56	38.1	7.45	0.442
1	10.2	9	2.3	5.8	0.95	7.9	7.31	0.44
outlet	0.8	0.8		17.51	8.06	87.3	8.19	0.427

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	9.5	1	3.7	24.84	5.38	65.8	7.71	0.388
1	9.5	2	3.7	24.71	5.33	65.1	7.67	0.388
1	9.5	3	3.7	24.02	4.09	49.3	7.43	0.391
1	9.5	4	3.7	20.13	8.7	97	7.85	0.389
1	9.5	5	3.7	15.17	19.5	196.9	8.82	0.356
1	9.5	6	3.7	10.71	3.51	31.9	7.45	0.383
1	9.5	7	3.7	8.35	1.44	12.6	7.44	0.415
1	9.5	8	3.7	7.11	0.9	7.6	7.4	0.413
1	9.5	9	3.7	6.57	0.56	4.7	7.27	0.418
outlet	0.3	0.3		24.72	4.09	50	7.45	0.388

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	8.9	1	2.5	16.86	6.63	70.3	7.86	0.425
1	8.9	2	2.5	16.19	6.4	67.1	7.72	0.423
1	8.9	3	2.5	15.75	6.35	65.7	7.69	0.424
1	8.9	4	2.5	15.41	5.36	55.1	7.57	0.424
1	8.9	5	2.5	14.96	3.95	40.3	7.41	0.424
1	8.9	6	2.5	13.59	0.58	5.8	7.18	0.423
1	8.9	7	2.5	10.07	0.43	3.8	7.34	0.48
1	8.9	8	2.5	8.03	0.32	2.8	7.31	0.482
outlet	0.6	0.6		16.55	5.13	54	7.62	0.428

-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	0.018	0.518	0.006	0.004	5	1	173.0	1.06
outlet	0.006	0.525	0.006	0.007	4.8	1	173.7	1.6

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	0.032	0.394	.0059	.008	4.4	151	175.800	0.9
outlet	0.048	0.916	.0144	.023	4.9	150	186.748	7.74

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	0.017	0.343	0.003	0.007	8.2	150.0	170.9	1.22
outlet	0.023	0.335	0.003	0.007	5.8	143.0	169.6	1.41

Sample Device - Horizontal Polycarbonate Sampler

"ND" indicates the result is at a concentration below the analytical method's Reporting Limit (RL). See Volume 1, Methods.

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