

AMBIENT LAKE MONITORING NETWORK

Lake Name: Sparta Lake

County: SUSSEX

SiteID: NJW04459-139

Municipality: SPARTA 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	2	1	1.7	18.4	11.83	129.3	8.89	0.311

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	2.0	1	1.5	24.13	6.77	84	7.45	0.373
outlet 1	0.2	0.2		24.9	7.31	92	7.91	0.374
outlet 2	0.2	0.2		24.52	5.27	65.9	7.27	0.381

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	1.9	1	1.6	9.68	9.88	86.8	7.9	0.359
outlet 1	0.1	0.1		10.14	10.18	90.5	7.92	0.358

-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	0.027	0.499	0.039	0.002	8.6	45.000	87.817	2.88
outlet 1	0.049	1.070	0.019	0.022	37.47	55.000	96.044	4.73
outlet 2	0.077	1.090	0.025	0.072	181.55	60.000	92.300	11.3

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	0.049	0.801	0.006	0.005	25.63	69.000	111.900	4.52
outlet 1	0.051	0.895	0.008	0.030	24.51	75.000	116.500	4.60
outlet 2	0.14	2.480	0.125	0.243	27.68	58.000	116.800	2.86

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	0.052	0.756	0.028	0.022	17.47	70.000	102.100	3.34
outlet 1	0.03	0.534	0.016	0.034	18.75	65.000	100.900	3.72

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.