

# AMBIENT LAKE MONITORING NETWORK

**Lake Name:** Sheppards Mill Pond

**County:** CUMBERLAND

**SiteID:** NJW04459-143

**Municipality:** GREENWICH TWP

## Surface to Bottom Profile

**Season:** Spring

<i>Station</i>	<i>Tot. Depth (M)</i>	<i>Profile Depth (M)</i>	<i>Secchi (M)</i>	<i>Water Temp (C)</i>	<i>DO (mg/L)</i>	<i>DO (%Sat)</i>	<i>pH (SU)</i>	<i>Conductivity (mS/cm)</i>
1	2	1	1.8	9.51	10.54	90.4	7.18	0.094
2	2.6	1	2.1	9.81	10.42	89.9	7.03	0.093
2	2.6	2	2.1	9.8	10.25	88.6	6.82	0.093
outlet	0.2	0.2		9.81	10.93	94.5	6.59	0.094

**Season:** Summer

<i>Station</i>	<i>Tot. Depth (M)</i>	<i>Profile Depth (M)</i>	<i>Secchi (M)</i>	<i>Water Temp (C)</i>	<i>DO (mg/L)</i>	<i>DO (%Sat)</i>	<i>pH (SU)</i>	<i>Conductivity (mS/cm)</i>
1	2.5	1	1.2	26.8	9.53	118.7	7.2	0.079
1	2.5	2	1.2	22.2	6.59	75.4	6.8	0.084
2	2.6	1	1.6	29.1	9.81	127.3	6.99	0.079
2	2.6	2	1.6	23.17	10.04	117	6.72	0.08
2A	2.6	2.5	1.6	19.95	8.31	91.3	6.66	0.082
outlet	0.3	0.3		28.88	5	64.6	7.13	0.079

**Season:** Fall

<i>Station</i>	<i>Tot. Depth (M)</i>	<i>Profile Depth (M)</i>	<i>Secchi (M)</i>	<i>Water Temp (C)</i>	<i>DO (mg/L)</i>	<i>DO (%Sat)</i>	<i>pH (SU)</i>	<i>Conductivity (mS/cm)</i>
1	1.8	1	0.9	25.25	11	133.1	9.23	0.117
2	2.2	1	1.0	25.32	10.69	129.5	9.14	0.117
2	2.2	2	1.0	23.56	2.78	32.5	7.85	0.116
inlet 1	0.1	0.1		18.58	6.47	68.8	6.79	0.077
inlet 2	0.1	0.1		17.36	4.26	44.2	4.56	0.131
inlet 3	0.1	0.1		18.33	2.7	28.5	5.54	0.123
outlet	0.1	0.1		25.86	8.21	100.5	8.61	0.114

-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.

-Inlet analysis was performed as a supplemental analysis for this lake only.

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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)	Potassium (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.025	0.224	1.600	0.008		9.05	5.0	28.515	3.3
2	0.018	0.191	1.550	0.211		9.92	10.0	27.910	2.18
outlet	ND	0.329	1.510	0.007		10.51	5.0	28.134	1.88

### Season: Summer

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Potassium (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.072	1.410	0.900	0.059		14.48	14.0	29.170	11
2	0.078	0.549	0.761	0.006		14.13	15.0	28.963	6.45
2A	0.073	0.652	0.674	0.060		17.16	10.0	29.337	4.86
outlet	0.014	0.658	0.704	0.025		13.93	30.0	28.979	7.46

### Season: Fall

Station	Tot Phos (mg/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Potassium (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	0.03	0.837	0.006	0.055	3.550	29.26	59.0	39.634	14.2
2	0.027	0.724	0.003	0.060	3.500	25.11	32.0	38.937	14.0
2A	0.044	1.170	0.006	0.054	3.610	56.11	45.0	40.587	25.6
inlet 1	0.043	0.335	0.683	0.035	1.880	0.69	5.0	20.573	2.97
inlet 2	0.016	0.526	2.350	0.019	3.360	0.52	2.0	37.759	0.43
inlet 3	0.021	0.558	1.460	0.062	4.520	2.52	1.0	27.897	6.5
outlet	0.033	0.777	0.008	0.053	3.430	26.09	15.0	38.930	14.5

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.

-Inlets and Potassium analysis were performed as a supplemental analysis for this lake only.