

AMBIENT LAKE MONITORING NETWORK

Lake Name: Stone Tavern

County: MONMOUTH

SiteID: NJW04459-128

Municipality: UPPER FREEHOLD 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	2.8	1	1.4	8.35	10.88	91.4	6.11	0.09
1	2.8	2	1.4	8.33	11.07	92.9	6.26	0.09
2	3.8	1	1.5	8.18	10.94	91.4	7.29	0.089
2	3.8	2	1.5	8.06	10.99	91.5	7.16	0.089
2	3.8	3	1.5	7.92	10.48	87.4	7.05	0.089
outlet	0.5	0.4		8.19	11.21	93.8	7.14	0.089

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	1.7	27.09	11.8	147.2	8.62	0.098
1A	2.5	2	1.7	22.59	7.22	82.8	7.85	0.094
2	4.5	1	2.4	26.78	11.89	147.3	8.95	0.1
2	4.5	2	2.4	22.65	12.72	146	8.61	0.094
2	4.5	3	2.4	18.14	9.26	97.2	8.1	0.102
2A	4.5	4	2.4	15.3	1.15	11.2	7.7	0.112

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	1.4	1	1.4	25.17	7.69	93.2	6.55	0.091
2	4.5	1	1.4	25.07	7.83	94.6	7.77	0.093
2	4.5	2	1.4	24.73	6.4	76.8	7.44	0.093
2	4.5	3	1.4	23.72	1.27	15	7.04	0.095
2A	4.5	4	1.4	19.87	0.4	4.3	6.56	0.189

-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	0.032	0.320	0.407	0.030	22.05	12.000	24.963	3.19
2	0.038	0.385	0.395	0.021	23.33	16.000	25.278	2.91
outlet	0.049	0.413	0.377	0.041	21.01	6.000	25.298	3.11

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	0.031	0.370	0.061	0.019	12.81	19.000	25.971	2.46
1A	0.03	0.489	0.042	0.022	32.15	16.000	24.893	4.54
2	0.019	0.346	0.019	0.013	11.74	15.000	24.867	2.44
2A	0.042	0.585	0.049	0.143	34.45	20.000	27.563	9.78

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	0.036	0.685	0.003	0.058	19.99	30.000	24.271	5.74
2	0.027	0.702	0.003	0.027	19.28	15.000	25.418	5.34
2A	0.053	1.210	0.005	0.425	60.15	40.000	30.816	6.12

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.