

AMBIENT LAKE MONITORING NETWORK

Lake Name: Lake Ioscoe

County: PASSAIC

SiteID: NJW04459-019

Municipality: BLOOMINGDALE BORO

Surface to Bottom Profile

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	0.9	1.1	28.06	8.02	103.3	8.39	0.137
1	2.5	1.8	1.1	27.14	5.97	75.8	7.41	0.137
2	3.0	0.9	1.1	28	7.91	101.9	8.6	0.137
2	3.0	1.8	1.1	26.84	4.49	57	6.95	0.138
2	3.0	2.7	1.1	26.52	1.08	13.6	6.59	0.141
3	1.6	0.9	1.0	27.24	7.19	91.4	8.08	0.136
hotspot	0.7	0.3	0.7	28.25	7.87	101.9	8.3	0.136
outlet 1	<0.2	<0.2		26.08	3.29	40.9	6.73	0.149
outlet 2	<0.2	<0.2		28	6.62	85.3	7.8	0.136

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	2.5	0.9	1.5	21.4	9.1	100.5	6.96	0.15
1	2.5	1.8	1.5	21.38	9.17	105.3	7.05	0.152
2	3.0	0.9	1.7	21.65	9.53	109.7	7.07	0.147
2	3.0	1.8	1.7	21.47	9.31	107.3	7.04	0.147
2	3.0	2.7	1.7	21.39	8.89	101.9	7.02	0.148
3	2.0	0.9	1.7	21.63	9.72	112.2	7.04	0.147
3	2.0	1.8	1.7	21.47	9.12	105.7	7.04	0.147
hotspot	0.7	0.5		21.55	10.39	119.7	7.15	0.146
outlet 1	0.2	0.2		20.25	8.45	94.8	6.9	0.153
outlet 2	0.3	0.3		21.69	10.52	121.5	7.14	0.148

-Secchi measurements are not recorded for outlets.

-A blank Secchi measurement for lake stations means that an accurate measurement could not be recorded because visibility was obscured by vegetation.

-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: Summer

Station	Tot Phos (ug/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	< 38.41	0.312	<0.006	0.017	33.8	26	33.7	6.15
2	< 38.41	0.406	<0.006	0.018	40.6	25	33.9	6.13
3	< 38.41	0.38	<0.006	0.018	45.0	25	33.8	6.85
hotspot	< 38.41	0.391	<0.006	0.018				3.26
outlet 1	< 38.41	0.372	0.111	0.081	12.0	30	37.8	2.71
outlet 2	< 38.41	0.42	0.01	0.028	36.1	26	32.9	6.35

Season: Fall

Station	Tot Phos (ug/L)	TKN (mg/L)	Nitrite-Nitrate (mg/L)	Ammonia-N (mg/L)	Chl a (ug/L)	Alk (ppm)	Hard (ppm)	Turbidity (NTU)
1	29.7	0.423	<0.006	0.03	32.3	25	35.2	6.69
2	48.81	0.535	<0.006	0.029	36.2	24	34.9	7.33
3	37.84	0.557	<0.006	0.029	34.4	26	35.2	6.68
hotspot	47.56	0.549	<0.006	0.029	34.7	25	35	6.69
outlet 1	34.28	0.426	0.052	0.053	18.0	25	36.8	6.48
outlet 2	35.5	0.417	<0.006	0.031	35.8	25	35.3	6.91

Sample Device - Horizontal Polycarbonate Sampler

"<" 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.