

AMBIENT LAKE MONITORING NETWORK

Lake Name: Lake 31A

County: SOMERSET

SiteID: NJW04459-242

Municipality: HILLSBOROUGH 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	1	0.4	1	17	5.57	58.7	7.14	0.316
2	1	0.5	1	17.21	3.04	32.3	7.09	0.314
outlet		0.5		16.71	4.78	50	7.23	0.315

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	0.9	0.5	0.5	27.7	4.53	57.4	7.3	0.254
2	0.9	0.5	0.4	27.81	4.63	58.4	7.48	0.256
outlet	1	0.5		27.53	3.3	41.6	7.21	0.256

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	1.1	0.5	1.1	17.24	4.38	45.6	7.48	0.249
2	1	0.5	0.8	17.01	3.85	39.9	7.31	0.247
outlet	0.2	0.2		17.22	3.98	41.2	7.2	0.25

-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	0.066	0.709	0.010	0.041	4.5	59	91.059	1.8
2	0.126	0.689	0.006	0.020	5.5	65	90.702	2.02
outlet	0.071	0.833	0.008	0.037	15.3	59	90.439	2.83

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	0.147		0.006	0.039	119	59	84.122	13.1
2	0.185	1.780	0.006	0.015	144.3	61	84.660	15.8
outlet	0.183	2.110	0.016	0.100	100.4	65	94.527	17.3

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	0.15	1.700	0.094	0.728	17.2	67	84.395	6.77
2	0.169	1.900	0.064	0.769	21.7	66	85.520	16.9
outlet	0.151	1.870	0.133	0.672	21.7	67	84.436	7.58

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.