

AMBIENT LAKE MONITORING NETWORK

Lake Name: Wawayanda Lake

County: SUSSEX

SiteID: NJW04459-271

Municipality: VERNON 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	26.6	1	3.7	19.67	7.86	88.7	7.58	0.206
1	26.6	2	3.7	19.42	8.02	89.9	7.79	0.206
1	26.6	3	3.7	17.04	8.39	89.7	7.84	0.201
1	26.6	4	3.7	14.62	8.68	88.1	7.87	0.194
1	26.6	5	3.7	11.59	9.92	94.1	7.89	0.187
1	26.6	6	3.7	8.57	10.08	89.1	7.9	0.181
1	26.6	7	3.7	7.2	9.57	81.8	7.84	0.181
1	26.6	8	3.7	6.77	9.04	76.4	7.78	0.181
1	26.6	9	3.7	6.35	8.81	73.7	7.71	0.181
1	26.6	10	3.7	6.13	8.55	71.1	7.63	0.181
1	26.6	11	3.7	5.93	8.63	71.4	7.58	0.18
1	26.6	12	3.7	5.69	8.48	69.7	7.53	0.18
1	26.6	13	3.7	5.45	8.56	69.9	7.52	0.179
1	26.6	14	3.7	5.28	8.46	68.8	7.49	0.179
2	14.4	1	3.3	19.91	8.03	90.9	7.99	0.234
2	14.4	2	3.3	19.67	7.95	89.6	8.01	0.236
2	14.4	3	3.3	17.57	7.95	85.9	7.93	0.239
2	14.4	4	3.3	15.41	7.47	77.2	7.83	0.243
2	14.4	5	3.3	12.41	8.09	78.1	7.82	0.246
2	14.4	6	3.3	9.37	8.81	79.4	7.82	0.244
2	14.4	7	3.3	8.51	8.63	76.1	7.78	0.245
2	14.4	8	3.3	7.64	8.29	71.6	7.74	0.246
2	14.4	9	3.3	6.95	8.1	68.8	7.71	0.246
2	14.4	10	3.3	6.67	7.75	65.3	7.66	0.247
2	14.4	11	3.3	6.43	7.53	63.2	7.61	0.247
2	14.4	12	3.3	6.25	7.35	61.4	7.58	0.248
2	14.4	13	3.3	5.96	6.63	54.9	7.54	0.249
2	14.4	14	3.3	5.77	5.93	48.8	7.49	0.25

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	24.9	1	3.2	25.45	6.7	84.8	6.93	0.244
1	24.9	2	3.2	25.3	6.85	86.3	7.24	0.243
1	24.9	3	3.2	24.04	4.45	54.8	7.08	0.209
1	24.9	4	3.2	18.86	5.81	64.7	7.09	0.216
1	24.9	5	3.2	14.56	6.21	63.2	7.11	0.227
1	24.9	6	3.2	11.11	5.69	53.7	7.08	0.228

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1	24.9	7	3.2	8.89	6.4	57.2	7.08	0.226
1	24.9	8	3.2	7.42	6.24	53.8	7.08	0.225
1	24.9	9	3.2	6.79	6.31	53.7	7.06	0.225
1	24.9	10	3.2	6.27	6.54	54.8	7.04	0.225
1	24.9	11	3.2	5.92	6.5	54.1	7.03	0.224
1	24.9	12	3.2	5.68	6.82	56.3	7.02	0.224
1	24.9	13	3.2	5.48	6.56	53.9	7	0.223
1	24.9	14	3.2	5.3	6.62	54.1	6.99	0.223
1	24.9	15	3.2	5.14	6.62	54	6.98	0.223
1	24.9	16	3.2	5.01	6.64	53.9	6.97	0.222
1	24.9	17	3.2	4.86	6.73	54.5	6.96	0.222
1	24.9	18	3.2	4.79	6.46	52.2	6.95	0.222
1	24.9	19	3.2	4.7	5.92	47.6	6.92	0.222
1	24.9	20	3.2	4.57	5.52	44.3	6.9	0.222
1	24.9	21	3.2	4.53	4.33	34.8	6.86	0.222
1	24.9	22	3.2	4.53	3.34	26.7	6.8	0.224
1	24.9	23	3.2	4.51	2.2	17.6	6.75	0.226
1	24.9	24	3.2	4.47	1.08	8.7	6.71	0.229
1	24.9	1	3.2	25.64	6.61	83.9	7.22	0.316
2	14.4	1	2.7	25.64	6.61	83.9	7.22	0.316
2	14.4	2	2.7	25.42	6.52	82.4	7.33	0.317
2	14.4	3	2.7	23.29	1.92	23.3	7.03	0.372
2	14.4	4	2.7	19.01	1.09	12.2	7.04	0.343
2	14.4	5	2.7	15.43	2.94	30.5	7.06	0.317
2	14.4	6	2.7	11.5	3.96	37.6	7.08	0.307
2	14.4	7	2.7	9.47	4.77	43.3	7.09	0.306
2	14.4	8	2.7	8.33	5.39	47.5	7.1	0.305
2	14.4	9	2.7	7.59	4.78	41.4	7.08	0.308
2	14.4	10	2.7	7.07	5.28	45.2	7.07	0.307
2	14.4	11	2.7	6.74	4.23	35.9	7.03	0.309
2	14.4	12	2.7	6.36	3.83	32.2	7	0.31
2	14.4	13	2.7	6.03	3.44	28.7	6.98	0.311
2	14.4	14	2.7	5.77	1.92	15.9	6.94	0.313

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	26.8	1	4.6	10.76	9.58	88.8	7.3	0.231
1	26.8	2	4.6	10.69	9.47	87.7	7.31	0.231
1	26.8	3	4.6	10.59	9.37	86.5	7.34	0.231
1	26.8	4	4.6	10.56	9.41	86.8	7.36	0.231
1	26.8	5	4.6	10.47	9.1	83.8	7.38	0.231
1	26.8	6	4.6	10.19	8.66	79.3	7.37	0.231

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1	26.8	7	4.6	9.88	8.43	76.5	7.36	0.23
1	26.8	8	4.6	9.65	8.14	73.4	7.36	0.233
1	26.8	9	4.6	8.41	6.37	55.8	7.35	0.218
1	26.8	10	4.6	7.06	5.14	43.5	7.33	0.206
1	26.8	11	4.6	6.04	5.25	43.4	7.28	0.205
1	26.8	12	4.6	5.7	5.27	43.1	7.26	0.205
1	26.8	13	4.6	5.47	5.41	44	7.23	0.204
1	26.8	14	4.6	5.27	5.58	45.3	7.2	0.203
1	26.8	15	4.6	5.05	4.94	39.9	7.18	0.202
1	26.8	16	4.6	4.91	4.32	34.7	7.15	0.203
1	26.8	17	4.6	4.84	4	32.1	7.12	0.203
1	26.8	18	4.6	4.76	3.4	27.1	7.1	0.203
1	26.8	19	4.6	4.74	2.42	19.3	7.06	0.204
1	26.8	20	4.6	4.71	1.81	14.5	7.03	0.206
1	26.8	21	4.6	4.62	0.35	2.9	6.97	0.209
1	26.8	22	4.6	4.62	0.2	1.6	6.94	0.21
1	26.8	23	4.6	4.57	0.14	1.1	6.89	0.215
1	26.8	24	4.6	4.56	0.12	0.9	6.89	0.217
1	26.8	25	4.6	4.64	0.1	0.8	6.94	0.344
2	14.5	1	3.6	10.79	9.77	90.7	7.3	0.302
2	14.5	2	3.6	10.66	9.58	88.6	7.23	0.302
2	14.5	3	3.6	10.53	9.6	88.5	7.24	0.302
2	14.5	4	3.6	10.46	9.42	86.8	7.27	0.302
2	14.5	5	3.6	10.44	9.39	86.3	7.34	0.302
2	14.5	6	3.6	10.24	8.88	81.3	7.34	0.303
2	14.5	7	3.6	9.87	8.44	76.7	7.34	0.304
2	14.5	8	3.6	9.55	8.12	73.2	7.34	0.304
2	14.5	9	3.6	9.03	7.51	66.8	7.33	0.304
2	14.5	10	3.6	7.87	5.4	46.7	7.29	0.293
2	14.5	11	3.6	6.46	2.59	21.6	7.24	0.284
2	14.5	12	3.6	6.13	0.91	7.5	7.17	0.288
2	14.5	13	3.6	6.01	0.27	2.2	7.09	0.289
2	14.5	14	3.6	5.84	0.2	1.7	7.02	0.297

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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	0.011	0.352	0.006	0.008	2.72	42	60.5	0.97
1A	ND	0.273	0.006	0.009	2.63	49	53.4	0.57
2	0.01	0.415	0.006	0.008	3.2	59	68.3	1.07
2A	ND	0.322	0.111	0.018	1.8	62	69.8	0.75

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	ND	0.345	0.00630	0.00778	6.7	30	61.4	1.31
1A	ND	0.192	0.0594	0.00778	1.44	50	55.6	0.94
2	0.017	0.348	0.00630	0.00778	7.9	59	77.8	1.71
2A	ND	0.214	0.0312	0.00922	3.02	61	73.4	1.36

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	0.015	0.351	0.00630	0.0143	8.8	44	62.4	0.8
1A	0.053	0.487	0.0146	0.178	1	39	56.7	3.63
2	0.025	0.399	0.00630	0.0155	8.1	75	78.2	1.8
2A	0.031	0.353	0.0129	0.0963	2.64	40	74.3	1.64

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.