

Geneganslet Lake Questions and Answers, 2015 CSLAP

Q1. What is the condition of our lake this year?

A1. Water quality conditions in Geneganslet Lake were close to normal in 2015 and continue to be favorable due to moderate water clarity and algae levels, and low nutrient levels.

Q2. Is there anything new that showed up in the testing this year?

A2. Chloride testing results were typical of lakes with low to moderate impacts from road salt runoff, and no biological impacts are measured or reported.

Q3. How does the condition of our lake this year compare with other lakes in the area?

A3. Geneganslet Lake had similar water clarity, and lower nutrient levels and algae levels, than other nearby lakes. Few shoreline blooms have been reported. Aquatic plant coverage was slightly lower than in many nearby lakes.

Q4. Are there any trends in our lake's condition?

A4. Water temperatures have increased slightly over the last two decades in Geneganslet Lake, but this has not resulted in any measureable changes in any of the other CSLAP indicators. Algae levels have decreased over the last fifteen to twenty years, although water clarity readings may have decreased slightly over this period.

Q5. Should we be concerned about the condition of our lake? Are we close to a tipping point?

A5. Water quality conditions continue to be favorable in the lake, and the lake does not appear to be susceptible to many of the problems experienced in other nearby lakes. The increase in water temperatures may eventually cause some water quality problems not yet apparent.

Q6. Are any actions indicated, based on the trends and this year's results?

A6. Individual stewardship activities such as pumping your septic system, growing a buffer of native plants next to the water bodies, and reducing erosion from shoreline properties and runoff into the lake will help to maintain lake health by reducing nutrient and sediment loading to the lake. Visiting boats should be inspected to reduce the risk of new invasive species, since nearby lakes harbor several invasive plants not presently found in the lake.

Lake Use				
	PWL	Average Year	2015	Primary issue
Potable Water	□	□	□	Not applicable
Swimming	●	●	●	No impacts
Recreation	●	●	▲	Bacteria
Aquatic Life	●	●	▲	Road salt
Aesthetics	●	●	▲	Poor perception
Habitat	●	●	●	No impacts
Fish Consumption	●	□	□	

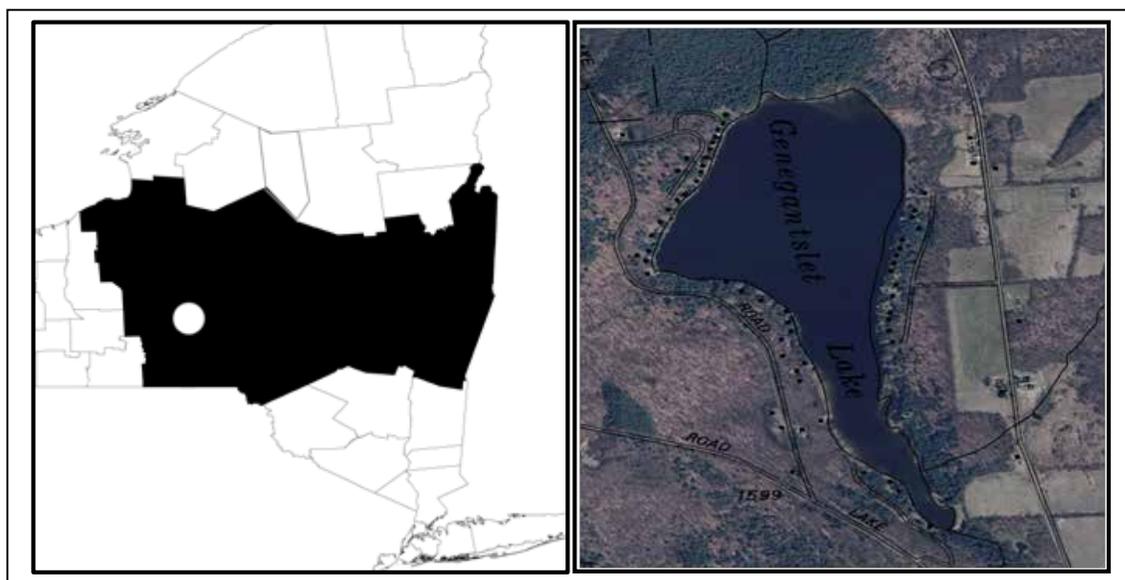
● Supported / Good
▲ Threatened / Fair
◆ Stressed / Poor
 Impaired
 Not Known

CSLAP 2015 Lake Water Quality Summary: Geneganslet Lake

General Lake Information

Location	Town of McDonough
County	Chenango
Basin	Susquehanna River
Size	41.4 hectares (102.3 acres)
Lake Origins	Natural
Watershed Area	1,305 hectares (3,223 acres)
Retention Time	0.7 years
Mean Depth	8.5 meters
Sounding Depth	18.3 meters
Public Access?	no
Major Tributaries	no named tribs
Lake Tributary To...	unnamed outlet to Geneganslet Creek to Chenango River to Susquehanna River
WQ Classification	B (contact recreation = swimming)
Lake Outlet Latitude	42.509
Lake Outlet Longitude	-75.771
Sampling Years	1990-2010, 2012-2015
2014 Samplers	Roger Monaco, Elliott LaRose, Deb Waziak, Linda Best, and Ann Scorza
Main Contact	Elliott LaRose

Lake Map



Background

Geneganslet Lake is a 102 acre, class B lake found in the Town of McDonough in Chenango County, in central New York State. It was first sampled as part of CSLAP in 1990.

It is one of eight CSLAP lakes among the more than 150 lakes and ponds found in Chenango County, and one of 25 CSLAP lakes among the nearly 900 lakes and ponds in the Susquehanna River drainage basin.

Lake Uses

Geneganslet Lake is a Class B lake; this means that the best intended use for the lake is for contact recreation—swimming and bathing, non-contact recreation—boating and fishing, aquatic life, and aesthetics. The lake is used by lake residents and invited guests for swimming, power boating and other recreation via shoreline properties. There is no public access to the lake.

Geneganslet Lake has been stocked with walleye by the lake association for many years, generally 0.4 inch fish, as part of a Cornell study. Bass, brown trout, and rainbow trout have also been stocked through this program. Fisheries netting and other surveys have identified bluegill, brown bullhead, carp, largemouth bass, northern pike, pumpkinseed sunfish, rock bass, smallmouth bass, walleye, and yellow perch in the lake.

General statewide fishing regulations are applicable in Geneganslet Lake. In addition, the open season for trout is April 1st thru October 15th, there is no minimum size limit, but a daily take limit of five, with no more than two fish greater than 12 inches, and five brook trout less than eight inches.

Historical Water Quality Data

CSLAP sampling was conducted on Geneganslet Lake from 1990-2010, and 2012 to 2015. The CSLAP reports for each of the past several years can be found on the NYSFOLA website at <http://nysfola.mylaketown.com>. The most recent CSLAP report for Geneganslet Lake can also be found on the NYSDEC web page at <http://www.dec.ny.gov/lands/77879.html>.

Geneganslet Lake has not been sampled as part of any previous state monitoring programs. It is not known by the report authors if the lake has been sampled as part of any local resource management efforts (such as fish stocking).

None of the unnamed tributaries to or outlet from Geneganslet Lake has been monitored through the NYSDEC Rotating Intensive Basins (RIBS) program or the state stream macroinvertebrate monitoring program. The lake has not been sampled by DEC fisheries staff in support of fish stocking activities.

Lake Association and Management History

Geneganslet Lake is served by the Geneganslet Lake Owners Association. It is not known to what extent the lake association actively manages the lake; the lake association maintains a website at <http://lakegeneganslet.mylaketown.com/>.

Summary of 2015 CSLAP Sampling Results

Evaluation of 2015 Annual Results Relative to 1990-2014

The summer (mid-June through mid-September) average readings are compared to historical averages for all CSLAP sampling seasons in the “Lake Condition Summary” table, and are compared to individual historical CSLAP sampling seasons in the “Long Term Data Plots – Geneganslet Lake” section in Appendix C.

Evaluation of Eutrophication Indicators

Algae levels were slightly lower than usual in 2015, but phosphorus readings were close to normal. Both algae levels and water clarity have decreased since the mid- to late-1990s, although the latter change was not statistically significant.

Lake productivity increases slightly in the fall during the typical CSLAP season, most likely after lake turnover, as manifested in increasing nutrient and algae level, although water clarity does not change much over this period. In 2015, the increase in productivity was confined to early summer; after July, water clarity increased in response to decreasing nutrient and algae levels.

The lake can be characterized as *mesoligotrophic*, or moderately unproductive, based on total phosphorus (typical of *oligotrophic* lakes), water clarity, and chlorophyll *a* readings (both typical of *mesotrophic* lakes). The trophic state indices (TSI) evaluation suggests that phosphorus readings are slightly lower than expected given the algae levels and water clarity readings. This suggests that small changes in phosphorus inputs may result in larger changes in algae levels. Overall trophic conditions are summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Potable Water Indicators

Algae levels are probably not high enough to render the lake susceptible to taste and odor compounds or elevated DBP (disinfection by product) compounds that could affect the potability of the water, and the lake is not used for this purpose. Hypolimnetic phosphorus and ammonia readings in Geneganslet Lake are only slightly higher than those measured at the lake surface, and deepwater phosphorus readings were lower than normal in 2014 and 2015. This suggests that deepwater intakes may also be adequate for “unofficial” use, although other potable water stressors have not been evaluated through CSLAP, and this use is not sanctioned for this lake. Potable water conditions, at least as measurable through CSLAP, are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Limnological Indicators

None of the other limnological indicators (NO_x, ammonia, total nitrogen, pH, color, conductivity and calcium) has exhibited any clear long-term trends, and it is likely that the small changes in each of these limnological indicators have been within the normal range of variability in the lake (color has been higher since 2002, most likely due to small differences in the way the labs analyze color samples, as in many other CSLAP lakes). Each of these indicators was close to normal in 2015.

Chloride levels in the 2015 samples, collected for the first time through CSLAP and cited in Appendix A, ranged from 5 to 19 mg/l. These values fall within the “low” to “moderate” road

salt runoff levels cited by the New Hampshire DES. These readings are well below the state potable water quality standard of 250 mg/l and below the range of values found in most NYS lakes. These readings suggest a low to moderate likelihood of biological impacts from road salt. Additional data will help to determine if these represent normal readings for the lake.

Overall limnological conditions are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Biological Condition

The fluoroprobe screening samples analyzed by SUNY ESF in the last three years found low overall algae levels and low percentages of blue green algae in the open water. There was a mix of algae species in the open water samples. Shoreline blooms sampled in 2015 found high overall algae levels, but relatively low levels of blue green algae, and a microscopic analysis of the sample showed green algae and diatoms.

Macrophyte surveys conducted through CSLAP at Geneganslet Lake have identified at least 13 aquatic plant species, and no exotic or protected plants have been found in the lake. The modified floristic quality index (FQI) data indicate that the quality of the aquatic plant community is “excellent,” although this assessment may change with additional macrophyte survey data.

The composition of the fish community includes a mix of coolwater (at least two species) and warmwater (at least five species) fish species. This suggests that the lake fishery can be described as warmwater, although it is likely that this represents an incomplete inventory.

Macroinvertebrate and zooplankton surveys have not been conducted through CSLAP in Geneganslet Lake.

Biological conditions in the lake are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Lake Perception

Water quality, aquatic plant, and recreational assessments were close to normal in 2014 and 2015, consistent with mostly similar water quality conditions. None of these indicators has exhibited any long term trends. Lake perception is usually very stable (and favorable) during the summer, with some degradation in the fall, consistent with higher nutrient and algae levels in the fall (perhaps consistent with lake turnover). Overall lake perception is summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Local Climate Change

Air temperature readings in the summer index period were close to normal in 2015, but both air and water temperatures have increased slightly since 1990. It is not known if this has led to any ecological changes in the lake.

Evaluation of Algal Toxins

Algal toxin levels can vary significantly within blooms and from shoreline to lake, and the absence of toxins in a sample does not indicate safe swimming conditions. Fluoroprobe readings have usually been well below the threshold for harmful algal blooms (HABs) in the open water

and in shoreline blooms. Microcystin (liver toxin) levels have been low in reported shoreline blooms and open water samples. Anatoxin readings were detectable in the mid-summer shoreline bloom sample in 2015, though most likely below risk levels, suggesting that blue green algae was present in bloom prior to collection.

Lake Condition Summary

Category	Indicator	Min	Annual Avg	Max	2015 Avg	Classification	2015 Change?	Long-term Change?
Eutrophication Indicators	Water Clarity	1.25	3.23	5.93	2.90	Mesotrophic	Within Normal Range	No Change
	Chlorophyll <i>a</i>	0.88	3.98	29.30	2.65	Mesotrophic	Within Normal Range	Decreasing Slightly
	Total Phosphorus	0.001	0.009	0.019	0.010	Oligotrophic	Within Normal Range	No Change
Potable Water Indicators	Hypolimnetic Ammonia	0.01	0.09	0.30	0.10	Close to Surface NH4 Readings	Within Normal Range	Not known
	Hypolimnetic Arsenic							Not known
	Hypolimnetic Iron							Not known
	Hypolimnetic Manganese							Not known
Limnological Indicators	Hypolimnetic Phosphorus	0.001	0.022	0.074	0.011	Close to Surface TP Readings	Lower Than Normal	Not known
	Nitrate + Nitrite	0.00	0.02	0.34	0.02	Low NOx	Within Normal Range	No Change
	Ammonia	0.00	0.03	0.30	0.04	Low Ammonia	Within Normal Range	No Change
	Total Nitrogen	0.05	0.36	1.59	0.37	Low Total Nitrogen	Within Normal Range	No Change
	pH	6.62	7.42	8.74	7.52	Circumneutral	Within Normal Range	No Change
	Specific Conductance	26	48	67	47	Softwater	Within Normal Range	No Change
	True Color	4	19	64	27	Intermediate Color	Higher than Normal	No Change
	Calcium	2.3	5.2	10.9	5.4	Not Susceptible to Zebra Mussels	Within Normal Range	No Change
Lake Perception	WQ Assessment	1	1.6	3	1.9	Not Quite Crystal Clear	Within Normal Range	No Change
	Aquatic Plant Coverage	1	1.9	3	1.8	Subsurface Plant Growth	Within Normal Range	No Change
	Recreational Assessment	1	1.4	4	1.4	Could Not Be Nicer	Within Normal Range	No Change
Biological Condition	Phytoplankton					Open water-low blue green algae biomass; Shoreline-high blue green algae in bloom	Not known	Not known
	Macrophytes					Excellent quality of the aquatic plant community	Not known	Not known
	Zooplankton					Not evaluated through CSLAP	Not known	Not known
	Macroinvertebrates					Not evaluated through CSLAP	Not known	Not known
	Fish					Warmwater fishery?	Not known	Not known
	Invasive Species					None observed through CSLAP	Not known	Not known
Local Climate Change	Air Temperature	9	21.9	37	22.4		Within Normal Range	Increasing Slightly
	Water Temperature	13	22.1	29	23.0		Within Normal Range	Increasing Slightly

Category	Indicator	Min	Annual Avg	Max	2015 Avg	Classification	2015 Change?	Long-term Change?
Harmful Algal Blooms	Open Water Phycocyanin	1	6	35	4	No readings indicate high risk of BGA	Not known	Not known
	Open Water FP Chl.a	0	1	2	1	No readings indicate high algae levels	Not known	Not known
	Open Water FP BG Chl.a	0	0	2	0	No readings indicate high BGA levels	Not known	Not known
	Open Water Microcystis	<DL	<DL	1.8	<DL	Low to undetectable open water microcystins	Not known	Not known
	Open Water Anatoxin a	<DL	<DL	0.0	<DL	Open water Anatoxin-a at times detectable	Not known	Not known
	Shoreline Phycocyanin					No shoreline blooms sampled for PC	Not known	Not known
	Shoreline FP Chl.a	37	271	923	56	All readings indicate high algae levels	Not known	Not known
	Shoreline FP BG Chl.a	0	10	26	0	Few readings indicate high BGA levels	Not known	Not known
	Shoreline Microcystis	<DL	1.2	2.5	<DL	At times measurable shoreline bloom MC-LR	Not known	Not known
	Shoreline Anatoxin a	<DL	<DL	1.3	<DL	Shoreline bloom Anatoxin-a at times detectable	Not known	Not known

Evaluation of Lake Condition Impacts to Lake Uses

Geneganslet Lake is presently among the lakes cited on the 2009 Susquehanna River Basin Priority Waterbody List (PWL) as having “no use impairments.” The PWL listing for Geneganslet Lake is listed in Appendix B.

Potable Water (Drinking Water)

The CSLAP dataset at Geneganslet Lake, including water chemistry data, physical measurements, and volunteer samplers’ perception data, is inadequate to evaluate the use of the lake for potable water. The lake is not classified or authorized for this use. Algae levels are probably not high enough in the surface waters to impact any “unofficial” use of the lake for potable water, and hypolimnetic water quality conditions are mostly comparable to conditions at the lake surface.

Public Bathing

The CSLAP dataset at Geneganslet Lake, including water chemistry data, physical measurements, and volunteer samplers’ perception data, suggests that public bathing, if conducted at a public swimming beach, should be supported, although additional information about bacterial levels is needed to evaluate the safety of the water for swimming.

Recreation (Swimming and Non-Contact Uses)

The CSLAP dataset on Geneganslet Lake, including water chemistry data, physical measurements, and volunteer samplers’ perception data, suggest that recreation should be supported, although elevated bacteria levels measured in 2015 suggest that this use may be *threatened*.

Aquatic Life

The CSLAP dataset on Geneganslet Lake, including water chemistry data, physical measurements, and volunteer samplers’ perception data, suggest that aquatic life should be supported, although depressed deepwater oxygen levels (based on slightly elevated deepwater ammonia and phosphorus readings) and road salt runoff may ultimately *threaten* aquatic life. Additional data are needed to evaluate the food and habitat conditions for aquatic organisms in the lake.

Aesthetics and Habitat

The CSLAP dataset on Geneganslet Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aesthetics may at times be *fair* due to poor perception associated with shoreline algae blooms. Habitat should be *good*.

Fish Consumption

There are no fish consumption advisories posted for Geneganslet Lake.

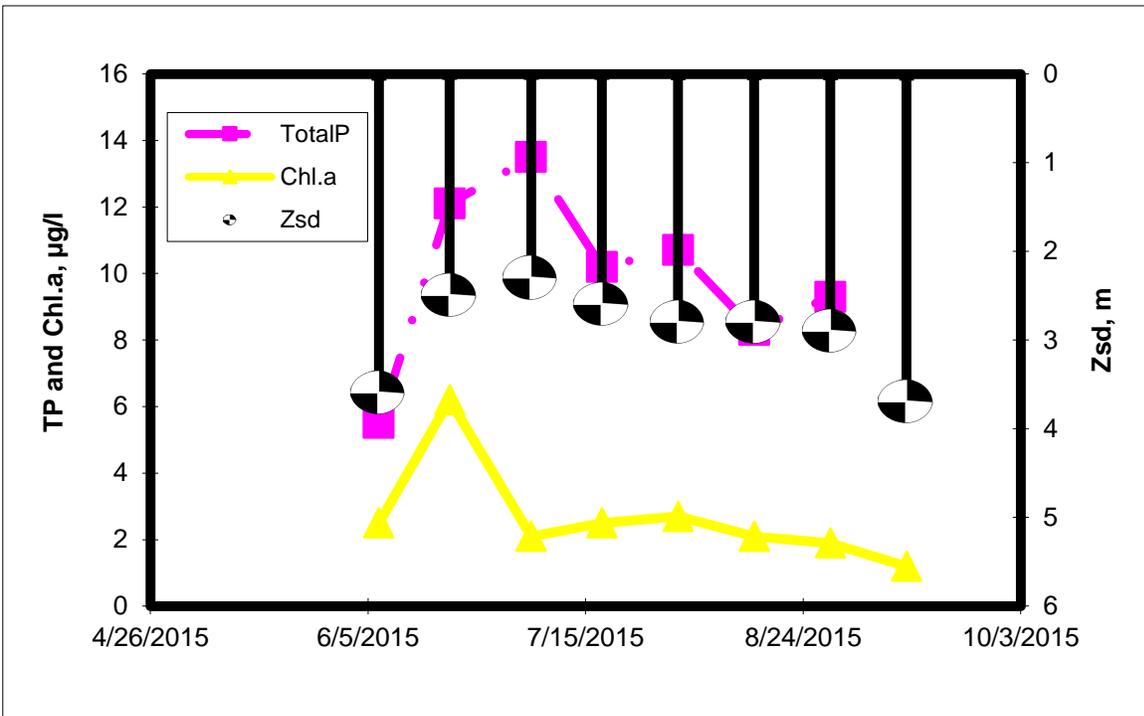
Additional Comments and Recommendations

Surveillance of Geneganslet Lake should continue to provide early detection of any invasive exotic species introduced to the lake. Lake residents should report any shoreline blooms found at the lake, and should avoid exposure to any surface scums and heavily discolored water.

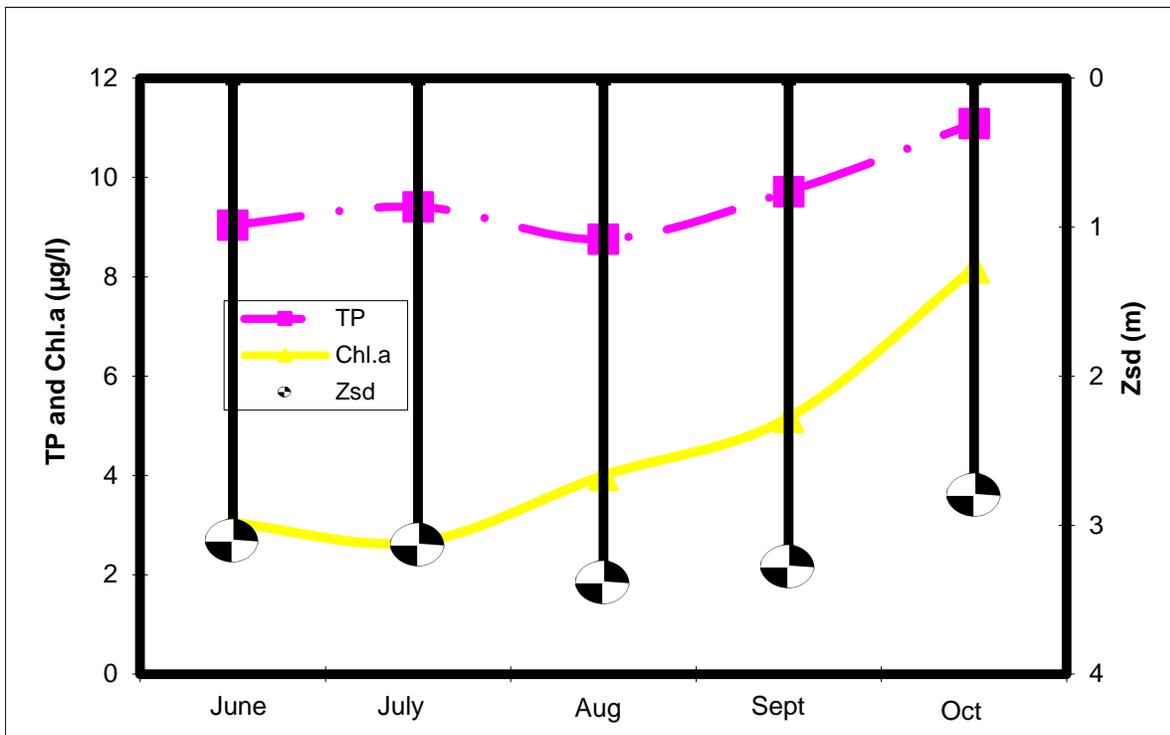
Aquatic Plant IDs-2015

None submitted for identification.

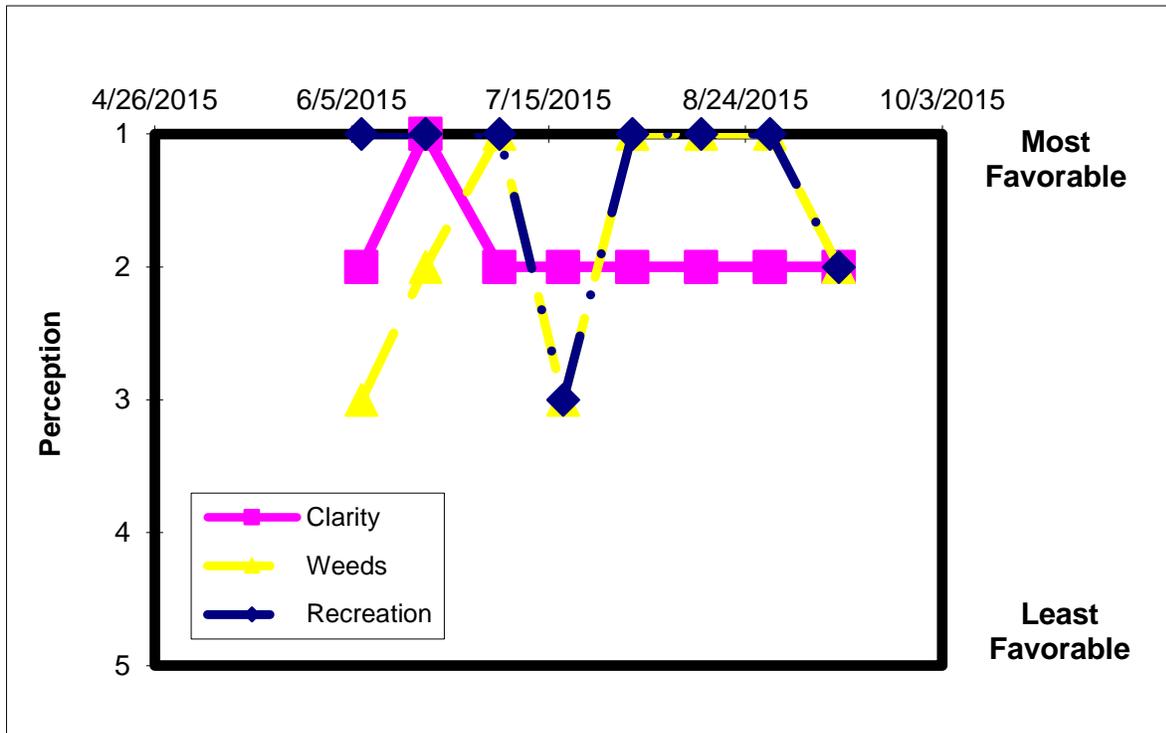
Time Series: Trophic Indicators, 2015



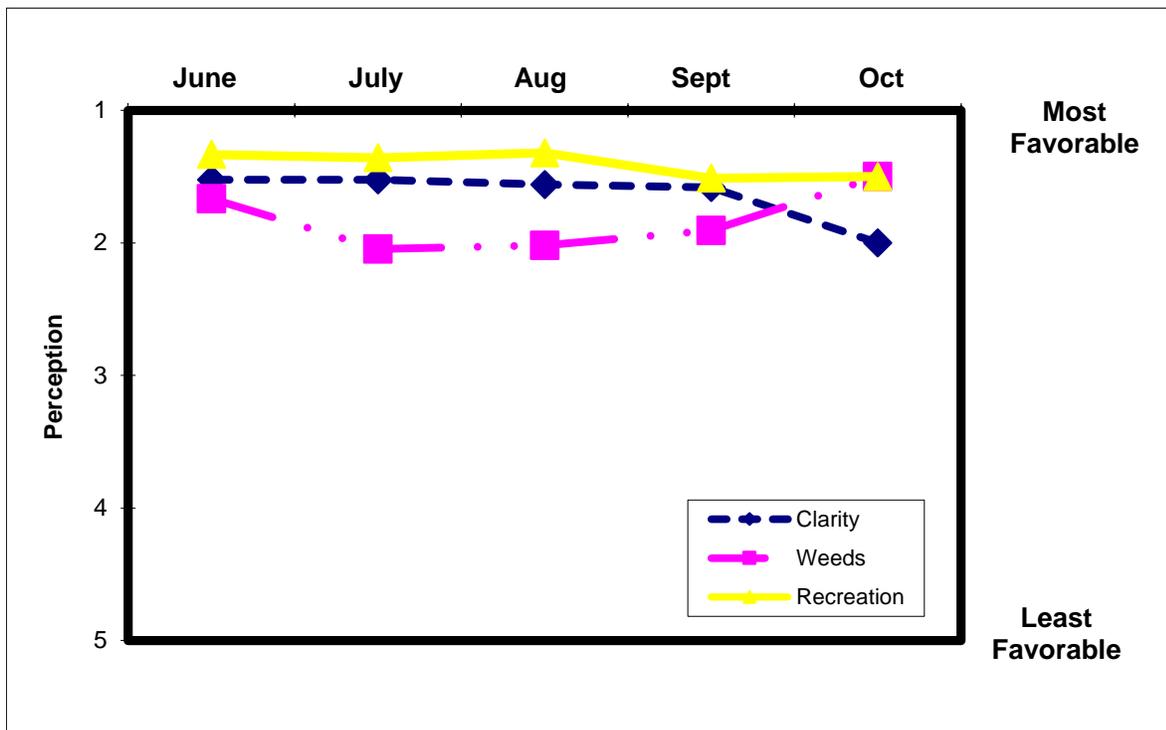
Time Series: Trophic Indicators, Typical Year (1990-2015)



Time Series: Lake Perception Indicators, 2015



Time Series: Lake Perception Indicators, Typical Year (1990-2015)



Appendix A- CSLAP Water Quality Sampling Results for Geneganslet Lake

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	pH	Cond25	Ca	Chl.a	Cl
69	Geneganslet L	7/15/1990	18.3	2.38	1.5	0.012	0.01				18	7.80	26		3.00	
69	Geneganslet L	7/30/1990	18.3	1.63	1.5	0.011	0.01				18	7.82	52		11.40	
69	Geneganslet L	8/12/1990	18.3	1.25	1.5	0.010	0.01				18	7.57	46		29.30	
69	Geneganslet L	8/26/1990	18.3	1.75	1.5	0.017	0.01				13	7.80	49		12.50	
69	Geneganslet L	9/9/1990	18.3	2.00	1.5	0.008	0.01				17	7.10	49		7.43	
69	Geneganslet L	9/23/1990	18.3	2.13	1.5	0.012	0.01				15	7.82			6.60	
69	Geneganslet L	10/7/1990	18.3	3.35	1.5	0.013	0.01				18	7.73	54		7.92	
69	Geneganslet L	10/20/1990	18.3	3.25	1.5	0.014	0.01				24	7.28	53		13.00	
69	Geneganslet L	6/29/1991	18.3	4.25	1.5	0.010	0.01				15	7.69	49		1.73	
69	Geneganslet L	7/14/1991	18.3	3.75	1.5	0.007					14	7.49	49		1.67	
69	Geneganslet L	7/28/1991	18.3	4.88	1.5	0.010	0.01				9	6.66	50		2.53	
69	Geneganslet L	8/11/1991	18.3	4.00	1.5	0.010					11	7.21	49		10.30	
69	Geneganslet L	8/25/1991	18.3	2.88	1.5	0.012	0.01				9	7.57	50		6.88	
69	Geneganslet L	9/8/1991	18.3	1.88	1.5	0.010					10	7.26	48		22.60	
69	Geneganslet L	9/22/1991	18.3	1.38	1.5	0.010	0.01				7	6.76	49		23.20	
69	Geneganslet L	10/6/1991	18.3	1.28	1.5	0.011					6	7.43	51		16.40	
69	Geneganslet L	6/20/1992	18.3	3.00	1.5	0.010	0.02				18	7.28	50		6.60	
69	Geneganslet L	7/4/1992	18.3	3.85	1.5	0.009					18	7.31	50		5.64	
69	Geneganslet L	7/17/1992	18.3	3.00	1.5	0.008	0.01				14	7.55	50		3.55	
69	Geneganslet L	8/2/1992	18.3	2.38	1.5	0.014					19	7.41	50		7.14	
69	Geneganslet L	8/15/1992	18.3	2.50	1.5	0.010	0.01				22	7.54	50		10.10	
69	Geneganslet L	8/29/1992	18.3	1.70	1.5	0.013					19	7.48	51		23.40	
69	Geneganslet L	9/12/1992	18.3	1.38	1.5	0.016	0.01				25	7.57	51		12.50	
69	Geneganslet L	9/27/1992	18.3	1.68	1.5	0.012					22	7.56	51		13.10	
69	Geneganslet L	6/20/1993	17.5	4.25	1.5	0.010	0.01				12	7.74	46		3.82	
69	Geneganslet L	7/3/1993	18.3	4.17	1.5	0.008	0.01				6	7.31	46		1.77	
69	Geneganslet L	7/17/1993	18.3	3.75	1.5	0.006	0.01				7	7.72	47		2.36	
69	Geneganslet L	7/30/1993	18.3	3.67	1.5	0.010					7	6.62	60			
69	Geneganslet L	8/14/1993	18.3	3.67	1.5	0.008	0.01				6	7.42	47		7.56	
69	Geneganslet L	8/28/1993	18.3	3.25	1.5	0.013					8	6.73	47		4.08	
69	Geneganslet L	9/11/1993	18.3	2.75	1.5	0.011	0.01				8	7.32	48		5.95	
69	Geneganslet L	9/25/1993	18.3	3.50	1.5	0.009					9	7.63	48		6.31	
69	Geneganslet L	6/11/1994	18.3	4.25	1.5	0.009	0.01				8	7.32	44		3.14	
69	Geneganslet L	6/25/1994	18.3	3.00	1.5	0.011	0.01				13	7.29	44		3.23	
69	Geneganslet L	7/9/1994	18.3	2.75	1.5	0.009					17	7.62	44		2.24	
69	Geneganslet L	7/23/1994	18.3	3.50	1.5	0.010	0.01				17	6.89	44		2.57	
69	Geneganslet L	8/6/1994	18.3	3.75	1.5	0.010	0.01				19	7.48	44		2.08	
69	Geneganslet L	8/20/1994	18.3	3.17	1.5	0.006	0.01				19	7.27	45		5.66	
69	Geneganslet L	9/3/1994	18.3	2.00	1.5	0.015	0.01				24	7.33	46		16.30	
69	Geneganslet L	9/17/1994	18.3	2.50	1.5	0.014					19	7.09	45		8.67	
69	Geneganslet L	8/1/1995	18.3	3.50	1.5	0.006					10	7.22	54		2.19	
69	Geneganslet L	8/12/1995	18.3	4.30	1.5	0.008					10	7.26	53		2.41	
69	Geneganslet L	8/26/1995	18.3	5.40	1.5	0.005					10	7.15	53		1.14	
69	Geneganslet L	9/9/1995	18.3	5.67	1.5	0.008					10	7.16	53		2.37	
69	Geneganslet L	7/22/1996	18.3	3.88	1.5	0.009					20	7.33	48		3.50	
69	Geneganslet L	8/10/1996	18.3	3.50	1.5	0.011					15	7.23	48		3.00	
69	Geneganslet L	8/31/1996	18.3	3.63	1.5	0.007					20	7.32	48		3.00	
69	Geneganslet L	9/21/1996	18.3	5.00	1.5	0.009					20	7.18	49		2.03	
69	Geneganslet L	7/13/1997		4.00	1.5	0.008					10	7.76	48		4.23	
69	Geneganslet L	8/2/1997	19.7	5.00	1.5	0.005					9	7.53	48		1.49	
69	Geneganslet L	8/23/1997	19.8	5.00	1.5	0.006					7	7.02	49		2.56	
69	Geneganslet L	9/20/1997	19.8	5.00	1.5	0.010	0.01				8	7.51	49		2.31	
69	Geneganslet L	7/11/1998	18.3	3.75	1.5	0.011					16	7.90	47		1.94	
69	Geneganslet L	8/1/1998	18.3	3.50	1.5	0.008					18	6.89	48		2.73	
69	Geneganslet L	8/22/1998	18.3	3.75	1.5	0.009					12	7.31	49		2.71	
69	Geneganslet L	9/12/1998	18.3	3.94	1.5	0.010					12	7.43	50		2.41	
69	Geneganslet L	6/26/1999	18.3	4.50	1.5	0.009	0.01				9	7.00	53		3.70	
69	Geneganslet L	7/18/1999	18.0	5.50	1.5	0.007	0.01				10	7.15	51		1.78	
69	Geneganslet L	8/7/1999	18.0	5.13	1.5	0.007	0.01				11	7.55	55		2.63	
69	Geneganslet L	8/28/1999	18.0	5.00	1.5	0.009	0.01				8	7.76	53		1.96	
69	Geneganslet L	6/11/2000	18.2	2.88	1.5	0.011	0.02				24	7.59	44		1.26	
69	Geneganslet L	6/24/2000	18.0	2.63	1.5	0.008	0.02				22	7.99	44		1.61	
69	Geneganslet L	7/10/2000	18.0	2.71	1.5	0.010	0.01				19	8.08	46		2.14	

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	pH	Cond25	Ca	Chl.a	Cl
69	Geneganslet L	7/22/2000	18.0	2.50	1.5	0.008	0.01				23	7.24	46		4.50	
69	Geneganslet L	8/5/2000	18.0	2.65	1.5	0.008	0.01				17	7.52	48		2.53	
69	Geneganslet L	8/19/2000	18.2	3.00	1.5	0.008	0.01				17	6.98	48		2.51	
69	Geneganslet L	9/2/2000	18.0	3.42	1.5	0.009	0.01				18	7.78	49		1.97	
69	Geneganslet L	9/16/2000	18.3	3.00	1.5	0.019	0.01				17	6.62	49		2.72	
69	Geneganslet L	7/2/2001	18.3	2.63	1.5	0.011	0.01				19	7.82	48		6.75	
69	Geneganslet L	7/16/2001	18.3	2.33	1.5	0.011	0.01				19	7.64	51		1.36	
69	Geneganslet L	7/30/2001	18.3	2.59	1.5	0.010	0.01				16	7.99	48		1.91	
69	Geneganslet L	8/11/2001	18.3	3.88	1.5	0.010	0.01				13	7.45	50		2.28	
69	Geneganslet L	8/26/2001	18.3	4.00	1.5	0.006	0.01				12	7.08	49		1.85	
69	Geneganslet L	9/9/2001	18.3	4.75	1.5	0.006	0.01				14	7.88	50			
69	Geneganslet L	9/24/2001	18.3	3.50	1.5	0.007	0.01				16	6.88	49		1.92	
69	Geneganslet L	10/7/2001	18.3	2.50	1.5	0.012	0.01				15	6.86	51			
69	Geneganslet L	06/17/02	18.3	2.25	1.5	0.001	0.08	0.05	0.74	102.37	24	7.09	44		2.34	
69	Geneganslet L	06/30/02	18.3	2.13	1.5	0.010	0.00	0.05	0.47	123.07	32	6.97	43		1.67	
69	Geneganslet L	07/14/02	18.3	2.35	1.5	0.010	0.00	0.12	0.56	108.41		7.38	44		1.98	
69	Geneganslet L	07/28/02	18.3	2.40	1.5	0.010	0.01	0.08	0.51	132.95	21	7.26	44		3.76	
69	Geneganslet L	08/10/02	18.3	3.15	1.5	0.009	0.02	0.13	0.52	128.48	24	7.15	45	2.3	2.01	
69	Geneganslet L	08/26/02	18.3	2.85	1.5	0.009	0.00	0.08	0.50	188.84	12	7.20	46		3.61	
69	Geneganslet L	09/09/02	18.3	3.53	1.5	0.006	0.00	0.01	0.54		16	6.88	48		1.60	
69	Geneganslet L	09/25/02	18.3	4.30	1.5		0.01	0.02			15	6.93	47		1.66	
69	Geneganslet L	10/15/02	18.3	2.55	1.5		0.01	0.05	0.53	77.97	21	6.70	49		3.58	
69	Geneganslet L	6/16/2003	18.3	4.00		0.009	0.00	0.01	0.31	359.03	20	7.19	50	4.7	1.45	
69	Geneganslet L	7/1/2003	18.3	4.00	3.5	0.010	0.02	0.02	1.59	56.24	9	7.42	51		1.61	
69	Geneganslet L	7/14/2003	18.3	3.20	1.5	0.012	0.00	0.03	0.30	32.31	19	7.32	51		1.41	
69	Geneganslet L	7/27/2003	18.3	2.50	1.5	0.012	0.00	0.00	0.17	92.67	16	7.40	49		4.30	
69	Geneganslet L	8/10/2003	18.3	3.05	1.5	0.006	0.00	0.00	0.24	142.86	17	7.17	47	5.0	2.51	
69	Geneganslet L	8/25/2003	18.3	2.95	1.5	0.006	0.00	0.01	0.37		22	6.98	49		2.41	
69	Geneganslet L	9/7/2003	18.3	2.83	1.5	0.010	0.03	0.01		27.37	25	7.13	50		3.14	
69	Geneganslet L	9/21/2003	18.3	3.60	1.5	0.017	0.00	0.02	0.21	47.71	19	7.06	51		3.02	
69	Geneganslet L	6/20/2004	18.3	2.00	1.5	0.007			0.15	102.05	20	6.90	50		3.13	
69	Geneganslet L	7/5/2004	18.3	2.60	1.5	0.005	0.03	0.01	0.22		15	6.63	51		1.00	
69	Geneganslet L	7/25/2004	18.3	2.60	1.5	0.006	0.02	0.03		92.67	21	7.43	54		0.88	
69	Geneganslet L	8/17/2004	18.3	2.60	1.5	0.011	0.01	0.01	0.45	81.66	34	7.17	52		2.70	
69	Geneganslet L	8/30/2004	18.3	1.80	1.5	0.013	0.03	0.03	0.47	69.33	34	7.68	47	7.3		
69	Geneganslet L	9/7/2004	18.3	1.90	1.5	0.013	0.01	0.01	0.41	180.15	52	7.39	39		6.80	
69	Geneganslet L	9/28/2004	18.3	1.80	1.5	0.011	0.34	0.30	0.92	60.68	25	7.92	33		8.83	
69	Geneganslet L	10/12/2004				0.010	0.01	0.02	0.29	82.62	31	6.69	44			
69	Geneganslet L	6/27/2005	18.3	3.75	1.5	0.005	0.01	0.02	0.19	173.68	9	7.49	47	4.9	1.67	
69	Geneganslet L	7/11/2005	18.3	3.70	1.5	0.002	0.01	0.02	0.17	162.55	15	7.70	49		1.57	
69	Geneganslet L	7/25/2005	18.3	4.05	1.5	0.006	0.15	0.01	0.44	159.49	8	7.82	42		1.79	
69	Geneganslet L	8/7/2005	18.3	4.30	1.5	0.006	0.01	0.01	0.41	103.96	43	7.54	43		0.90	
69	Geneganslet L	8/22/2005	18.3	4.20	1.5	0.005	0.01	0.01	0.22	57.47	13	8.12	41	4.3	1.55	
69	Geneganslet L	9/11/2005	18.3	4.25	1.5	0.007	0.01	0.01	0.17	20.18	14	7.36	45		4.65	
69	Geneganslet L	9/19/2005	18.3	4.40	1.5	0.006	0.01	0.01	0.05	42.47	4	6.90	47		1.76	
69	Geneganslet L	10/1/2005	18.3	2.80	1.5	0.008	0.01	0.01	0.15	102.37	12	7.91	45		4.54	
69	Geneganslet L	7/8/2006	18.3	1.80	1.5	0.018	0.01	0.02	0.33	39.11	43	7.00	35	4.0	3.38	
69	Geneganslet L	7/17/2006	18.3	2.13	1.5	0.012	0.02	0.03	0.66	124.42	64	7.46	37		1.81	
69	Geneganslet L	8/5/2006	18.3	2.50	1.5	0.009	0.02	0.02	0.54	139.16	41	7.38	43		2.47	
69	Geneganslet L	8/20/2006	18.3	2.65	1.5	0.008	0.03	0.05	0.69	196.47	27	7.58	41		2.78	
69	Geneganslet L	9/3/2006	18.3	2.10	1.5	0.011			0.48	100.99	32	7.21	43	4.9	12.53	
69	Geneganslet L	9/10/2006	18.3	2.35	1.5	0.011	0.01	0.01	0.57	115.22	31	6.78	31		5.45	
69	Geneganslet L	9/17/2006	18.3	2.48	1.5	0.012	0.02	0.03			32	8.00	37		4.19	
69	Geneganslet L	9/23/2006	18.3	2.25	1.5	0.010	0.01	0.02	0.61	141.52	22	7.71	36		7.48	
69	Geneganslet L	7/8/2007	18.2	3.90	1.0	0.010	0.01	0.02	0.51	113.98	9	8.51	45	5.0	1.72	
69	Geneganslet L	7/16/2007	18.2	3.70	1.5	0.008	0.01	0.02	0.38	102.84	9	7.42	42		2.04	
69	Geneganslet L	7/21/2007	18.2	2.20	1.5	0.010	0.01	0.01	0.45	100.15	11	8.22	48		2.77	
69	Geneganslet L	8/3/2007	18.2	4.80	1.5	0.006	0.01	0.01	0.53	200.66	9	8.38	43		1.25	
69	Geneganslet L	8/19/2007	18.2	5.13	1.5	0.007	0.01	0.03	0.49	148.10	9	7.15	45	5.2	1.68	
69	Geneganslet L	9/1/2007	18.2	4.35	1.5	0.007	0.00	0.02	0.39	125.21	11	7.58	47		2.09	
69	Geneganslet L	9/8/2007	18.2	4.10	1.5	0.007	0.00	0.02	0.51	163.33	6	7.67	42		1.39	
69	Geneganslet L	9/22/2007	18.2	3.78	1.5	0.008	0.01	0.01	0.44	123.49	9	8.36	44		2.22	
69	Geneganslet L	7/5/2008	18.3	3.00	1.5	0.009	0.02	0.03	0.24	59.09	9	8.03	40	4.6	2.09	
69	Geneganslet L	7/12/2008	18.3	3.45	1.5	0.008	0.02	0.03	0.19	55.66	10	7.85	47		2.41	
69	Geneganslet L	7/28/2008	18.3	3.33	1.5	0.007	0.01	0.02	0.26	76.45	12	7.61	32		2.74	
69	Geneganslet L	8/11/2008	18.3	3.45	1.5	0.003	0.01	0.02	0.19	165.06	7	7.82	52		3.15	

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	pH	Cond25	Ca	Chl.a	Cl
69	Geneganslet L	8/23/2008	18.3	4.55	1.5	0.006	0.00	0.02	0.21	75.97	15	7.16	55	5.0	2.11	
69	Geneganslet L	9/7/2008	18.3	5.23	1.5	0.007	0.00	0.01	0.22	74.52	7	7.93	41		1.90	
69	Geneganslet L	9/20/2008	18.3	3.60	1.5	0.002	0.01	0.02	0.22	305.93	16	7.16	46		2.55	
69	Geneganslet L	10/4/2008	18.3	3.88	1.5	0.009	0.02	0.02	0.21	51.67	12	7.21	49		3.61	
69	Geneganslet L	06/29/2009	18.3	2.85	1.5	0.010	0.05	0.03	0.27	59.84	24	7.83	46	4.7	4.07	
69	Geneganslet L	07/11/2009	18.3	2.90	1.5	0.014	0.01	0.02	0.29	45.08	24	7.73	48		2.05	
69	Geneganslet L	07/26/2009	18.3	2.80	1.5	0.009	0.01	0.02	0.21	49.15	25	7.72	42		2.84	
69	Geneganslet L	08/11/2009	18.3	1.70	1.5	0.015	0.03	0.22	0.22	32.92	23	7.28	35		3.00	
69	Geneganslet L	08/25/2009	18.3	3.15	1.5	0.011	0.01	0.01	0.25	49.95	43	6.80	43	5.0	3.00	
69	Geneganslet L	09/05/2009	18.3	3.03	1.5	0.012	0.02	0.02	0.29	54.71	50	8.05	36		2.00	
69	Geneganslet L	09/21/2009	18.3	3.00	1.5	0.009	0.01	0.02	0.28	67.43	47	6.67	38		2.60	
69	Geneganslet L	09/26/2009	18.3	2.45	1.5	0.010	0.01	0.02	0.28	64.61	40	7.46	42		3.40	
69	Geneganslet L	6/20/2010	18.0	2.35	1.5	0.016	0.02	0.03	0.50	67.63	13	7.21	59	5.8	2.80	
69	Geneganslet L	7/6/2010	18.0	2.98	1.5	0.007	0.04	0.02	0.27	83.97	9	7.21	56		1.40	
69	Geneganslet L	7/17/2010	18.0	3.23	1.5	0.008	0.01	0.02	0.23	67.16	15	8.40	67		1.90	
69	Geneganslet L	8/1/2010	18.3	3.43	1.5	0.008	0.01	0.01	0.28	81.84	16	7.26	62		1.30	
69	Geneganslet L	8/14/2010	18.3	3.70	1.5	0.008	0.01	0.02	0.16	42.10	16	6.92	43	10.9	1.80	
69	Geneganslet L	8/30/2010	18.3	4.35	1.5	0.009	0.01	0.02	0.27	62.26	14	7.41	58		1.70	
69	Geneganslet L	9/6/2010	18.3	4.35	1.5	0.007	0.02	0.02	0.26	87.67	10	7.47	59		2.20	
69	Geneganslet L	9/18/2010	18.3	5.93	1.5	0.007	0.12	0.05	0.31	97.88	21	7.62	65		2.00	
69	Geneganslet L	6/16/2012	18.2	2.85	1.5	0.010	0.04	0.05	0.39	85.78	20	6.93	52	4.6	2.80	
69	Geneganslet L	6/24/2012	18.2	2.85	1.5	0.008	0.04	0.03	0.23	59.19	20	7.76	50		3.60	
69	Geneganslet L	7/8/2012	18.2	3.30	1.5	0.007	0.01	0.01	0.24	79.67	18	7.67	49		1.20	
69	Geneganslet L	7/22/2012	18.2	3.50	1.5	0.009	0.01	0.02	0.25	63.72	16	7.42	51		1.90	
69	Geneganslet L	8/18/2012	18.2	3.60	1.5	0.010	0.01	0.02	0.42	91.45	14	7.75	49	5.5	2.20	
69	Geneganslet L	9/1/2012	18.2	3.38	1.5	0.007	0.01	0.03	0.26	78.36	13	7.45	50		1.60	
69	Geneganslet L	9/15/2012	18.2	3.60	1.5	0.008	0.01	0.02	0.31	84.15	12	7.17	50		2.80	
69	Geneganslet L	9/23/2012	18.2	2.75	1.5	0.009	0.01	0.05	0.24	60.69	13	6.63	50		4.20	
69	Geneganslet L	6/22/2013	18.2	2.63	1.5	0.008	0.01	0.02	0.28	74.38	21	7.43	46		2.70	
69	Geneganslet L	7/6/2013	18.2	2.55	1.5	0.013			0.29	48.50	26	7.62	45		3.30	
69	Geneganslet L	7/20/2013	18.2	2.88	1.5	0.012	0.01	0.01	0.15	27.64	27	8.36	59		1.40	
69	Geneganslet L	7/26/2013			bloom											
69	Geneganslet L	8/3/2013	18.2	2.85	1.5	0.010			0.39	89.57	26	7.09	47		1.60	
69	Geneganslet L	8/17/2013	18.2	2.95	1.5	0.009	0.01	0.01	0.32	76.76	27	8.74	55		2.10	
69	Geneganslet L	8/31/2013	18.2	2.90	1.5	0.009			0.39	94.37	26	6.91	48		3.30	
69	Geneganslet L	9/14/2013	18.2	2.95	1.5	0.012	0.01	0.01	0.40	71.87	33	7.45	48		2.10	
69	Geneganslet L	9/16/2013			bloom											
69	Geneganslet L	9/27/2013	18.2	3.65	1.5	0.009			0.44	107.80	29	7.75	48		2.10	
69	Geneganslet L	6/7/2014	18.2	3.15	1.5	0.009	0.01	0.01	0.29	71.38	18	6.83	50	4.9	3.70	
69	Geneganslet L	6/21/2014	18.0	2.68	1.5	0.010			0.29	66.93	16	7.24	47		3.30	
69	Geneganslet L	7/19/2014	18.2	3.16	1.5	0.010	0.01	0.03	0.28	64.17	20	6.95	51		2.30	
69	Geneganslet L	8/2/2014	18.2	2.90	1.5	0.010			0.28	63.25	14	7.88	52		2.50	
69	Geneganslet L	8/21/2014		3.30	1.5	0.009	0.01	0.02	0.35	88.50	23	7.76	55	5.1	1.90	
69	Geneganslet L	8/30/2014	18.2	3.33	1.5	0.010			0.39	86.24	29	7.33	41		1.70	
69	Geneganslet L	9/13/2014	18.2	2.99	1.5	0.011	0.02	0.05	0.33	66.00	27	7.87	56		2.90	
69	Geneganslet L	9/27/2014	18.2	3.25	1.5	0.010			0.36	78.32	26	7.76	54		4.00	
69	Geneganslet L	6/7/2015	18.2	3.60	1.5	0.006	0.05	0.04	0.21	37.82	24	7.48	48	5.2	2.50	
69	Geneganslet L	6/20/2015	19.0	2.50	1.5	0.012			0.34	27.77	20	7.84	45		6.20	
69	Geneganslet L	7/5/2015	18.2	2.30	1.5	0.014	0.01	0.05	0.42	31.04	27	7.25	47		2.10	18.5
69	Geneganslet L	7/12/2015														
69	Geneganslet L	7/12/2015														
69	Geneganslet L	7/18/2015	18.2	2.60	1.5	0.010			0.40	38.92	35	7.04	46		2.50	
69	Geneganslet L	8/1/2015	18.2	2.80	1.5	0.011	0.02	0.04	0.48	44.67	35	7.44	47	5.6	2.70	
69	Geneganslet L	8/15/2015		2.80	1.5	0.008			0.43	52.29	23	7.84	50		2.10	
69	Geneganslet L	8/29/2015	18.2	2.90	1.5	0.009	0.02	0.03	0.41	43.98	30	7.30	44		1.90	5.0
69	Geneganslet L	9/12/2015	18.2	3.70	1.5				0.27		18	7.95	45		1.20	
69	Geneganslet L	7/3/1993	18.3		16.8	0.018										
69	Geneganslet L	7/30/1993	18.3		16.8	0.034										
69	Geneganslet L	8/28/1993	18.3		16.8	0.058										
69	Geneganslet L	9/25/1993	18.3		16.8	0.046										
69	Geneganslet L	6/25/1994	18.3		16.8	0.022										
69	Geneganslet L	7/23/1994	18.3			0.031										
69	Geneganslet L	8/20/1994	18.3		16.7	0.034										
69	Geneganslet L	9/17/1994	18.3		16.8	0.037										
69	Geneganslet L	06/17/02	18.3	2.25	15.0	0.006	0.17	0.03	0.58	198.64						
69	Geneganslet L	06/30/02	18.3	2.13			0.17	0.05	0.58							

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	pH	Cond25	Ca	Chl.a
69	Geneganslet L	07/14/02	18.3	2.35	17.1	0.025	0.18	0.05	0.64	55.36					
69	Geneganslet L	07/28/02	18.3	2.40		0.025	0.16	0.07	0.59	52.62					
69	Geneganslet L	08/10/02	18.3	3.15		0.029	0.07	0.11	0.59	45.66					
69	Geneganslet L	08/26/02	18.3	2.85		0.033	0.01	0.18	0.46	30.63					
69	Geneganslet L	09/09/02	18.3	3.53		0.048	0.00	0.20	0.56	25.47					
69	Geneganslet L	09/25/02	18.3	4.30			0.00	0.22							
69	Geneganslet L	6/16/2003				0.014	0.12	0.04	0.36	56.33					
69	Geneganslet L	7/1/2003				0.017	0.22	0.01	0.45	58.07					
69	Geneganslet L	7/14/2003				0.018	0.23	0.04	0.42	52.17					
69	Geneganslet L	7/27/2003				0.023	0.23	0.03	0.20	19.26					
69	Geneganslet L	8/10/2003				0.021	0.14	0.11	0.28	29.48					
69	Geneganslet L	8/25/2003				0.022	0.02	0.12	0.30	30.16					
69	Geneganslet L	9/7/2003				0.043	0.08	0.19							
69	Geneganslet L	9/21/2003				0.034	0.00	0.22	0.16	10.22					
69	Geneganslet L	6/20/2004	18.3			0.021	0.24	0.03							
69	Geneganslet L	7/5/2004	18.3			0.005	0.19	0.01	0.42	183.70					
69	Geneganslet L	7/25/2004	18.3			0.017	0.55	0.03							
69	Geneganslet L	8/17/2004	18.3			0.017	0.22	0.04	0.44	55.06					
69	Geneganslet L	8/30/2004	18.3			0.019	0.14	0.04	0.38	43.06					
69	Geneganslet L	9/7/2004	18.3			0.022	0.17	0.05	0.42	42.17					
69	Geneganslet L	9/28/2004	18.3			0.027	0.03	0.12	0.27	22.43					
69	Geneganslet L	10/12/2004				0.028	0.01	0.14	0.34	27.10					
69	Geneganslet L	6/27/2005	18.3			0.010									
69	Geneganslet L	7/11/2005	18.3			0.021									
69	Geneganslet L	7/25/2005	18.3			0.015									
69	Geneganslet L	8/7/2005	18.3			0.030									
69	Geneganslet L	8/22/2005	18.3			0.024									
69	Geneganslet L	9/11/2005	18.3			0.047									
69	Geneganslet L	9/19/2005	18.3			0.051									
69	Geneganslet L	10/1/2005				0.074									
69	Geneganslet L	7/8/2006	18.3			0.014									
69	Geneganslet L	7/17/2006	18.3			0.013									
69	Geneganslet L	8/5/2006	18.3			0.010									
69	Geneganslet L	8/20/2006	18.3			0.016									
69	Geneganslet L	9/3/2006	18.3			0.016									
69	Geneganslet L	9/10/2006	18.3			0.027									
69	Geneganslet L	9/17/2006	18.3			0.031									
69	Geneganslet L	9/23/2006	18.3			0.029									
69	Geneganslet L	7/8/2007	18.2			0.010									
69	Geneganslet L	7/16/2007	18.2			0.009									
69	Geneganslet L	7/21/2007	18.2			0.008									
69	Geneganslet L	8/3/2007	18.2			0.014									
69	Geneganslet L	8/19/2007	18.2			0.016									
69	Geneganslet L	9/1/2007	18.2			0.018									
69	Geneganslet L	9/8/2007	18.2			0.022									
69	Geneganslet L	9/22/2007	18.2			0.029									
69	Geneganslet L	7/5/2008				0.022									
69	Geneganslet L	7/12/2008				0.022									
69	Geneganslet L	7/28/2008				0.025									
69	Geneganslet L	8/11/2008				0.033									
69	Geneganslet L	8/23/2008				0.032									
69	Geneganslet L	9/7/2008				0.051									
69	Geneganslet L	9/20/2008				0.054									
69	Geneganslet L	10/4/2008				0.040									
69	Geneganslet L	06/29/2009	18.3			0.011		0.01							
69	Geneganslet L	07/11/2009	18.3			0.013									
69	Geneganslet L	07/26/2009	18.3			0.018		0.11							
69	Geneganslet L	08/11/2009	18.3			0.020									
69	Geneganslet L	08/25/2009	18.3			0.017		0.25							
69	Geneganslet L	09/05/2009	18.3			0.020									
69	Geneganslet L	09/21/2009	18.3			0.026		0.26							
69	Geneganslet L	09/26/2009	18.3			0.030									
69	Geneganslet L	6/20/2010	18.0		18.0	0.012		0.01							
69	Geneganslet L	7/17/2010	18.0			0.019		0.06							
69	Geneganslet L	8/14/2010	18.3			0.020		0.15							
69	Geneganslet L	9/6/2010	18.3			0.031		0.30							

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	pH	Cond25	Ca	Chl.a	Cl
69	Geneganslet L	6/16/2012			16.7	0.020		0.03								
69	Geneganslet L	7/8/2012			16.7	0.028		0.04								
69	Geneganslet L	8/18/2012				0.002		0.13								
69	Geneganslet L	9/15/2012				0.002		0.08								
69	Geneganslet L	6/22/2013				0.006		0.03								
69	Geneganslet L	7/20/2013				0.018		0.01								
69	Geneganslet L	8/17/2013			18.2	0.011		0.02								
69	Geneganslet L	9/14/2013			18.2	0.019		0.05								
69	Geneganslet L	6/7/2014			17.9	0.009		0.04								
69	Geneganslet L	6/21/2014			17.9	0.009										
69	Geneganslet L	7/19/2014			17.9	0.012		0.06								
69	Geneganslet L	8/2/2014			18.2	0.001										
69	Geneganslet L	8/21/2014			17.9	0.010		0.05								
69	Geneganslet L	8/30/2014			17.9	0.008										
69	Geneganslet L	9/13/2014			17.9	0.020		0.26								
69	Geneganslet L	9/27/2014			17.9	0.017										
69	Geneganslet L	6/7/2015			17.9	0.006		0.10								
69	Geneganslet L	6/20/2015			18.2	0.010										
69	Geneganslet L	7/5/2015			17.9	0.018		0.13								
69	Geneganslet L	7/18/2015			17.9	0.011										
69	Geneganslet L	8/1/2015			17.9	0.014		0.04								
69	Geneganslet L	8/15/2015			18.2	0.007										
69	Geneganslet L	8/29/2015			17.9	0.014		0.12								
69	Geneganslet L	9/12/2015			17.9											

LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-PC	AQ-Chla	MC-LR	Ana-a	Cylin	FP-Chl	FP-BG	HABform	Shore HAB
69	Geneganslet L	7/15/1990	epi	24	22															
69	Geneganslet L	7/30/1990	epi	29	27															
69	Geneganslet L	8/12/1990	epi	20	22															
69	Geneganslet L	8/26/1990	epi	20	22															
69	Geneganslet L	9/9/1990	epi	14	20															
69	Geneganslet L	9/23/1990	epi	10	15															
69	Geneganslet L	10/7/1990	epi	16	15															
69	Geneganslet L	10/20/1990	epi	13	14															
69	Geneganslet L	6/29/1991	epi	30	25															
69	Geneganslet L	7/14/1991	epi	19	23															
69	Geneganslet L	7/28/1991	epi	20	24															
69	Geneganslet L	8/11/1991	epi	17	20															
69	Geneganslet L	8/25/1991	epi	17	21															
69	Geneganslet L	9/8/1991	epi	23	20															
69	Geneganslet L	9/22/1991	epi	9	17															
69	Geneganslet L	10/6/1991	epi	11	15															
69	Geneganslet L	6/20/1992	epi	14	18	1	1	4	5											
69	Geneganslet L	7/4/1992	epi	18	20	2	1	2	5											
69	Geneganslet L	7/17/1992	epi	20	22	2	3	2	5											
69	Geneganslet L	8/2/1992	epi	25	20	2	1	1												
69	Geneganslet L	8/15/1992	epi	15	19	2	1	1	5											
69	Geneganslet L	8/29/1992	epi	16	22	3	3	2	15											
69	Geneganslet L	9/12/1992	epi	11	19	2	2	1	5											
69	Geneganslet L	9/27/1992	epi	16	17	3	2	4	15											
69	Geneganslet L	6/20/1993	epi	25	22	2	1	1	5											
69	Geneganslet L	7/3/1993	epi	20	21	1	2	1												
69	Geneganslet L	7/17/1993	epi	18	22															
69	Geneganslet L	7/30/1993	epi	18	22	2	1	1	5											
69	Geneganslet L	8/14/1993	epi	21	22	1	1	2	6											
69	Geneganslet L	8/28/1993	epi	25	24	2	1	2												
69	Geneganslet L	9/11/1993	epi	15	20	2	1	1	5											
69	Geneganslet L	9/25/1993	epi	20	16	1	1	1	5											
69	Geneganslet L	6/11/1994	epi	20	20	1	1	1	5											
69	Geneganslet L	6/25/1994	epi	20	22	2	1	2	5											
69	Geneganslet L	7/9/1994	epi	29	26	2	3	2												
69	Geneganslet L	7/23/1994	epi	23	25	2	1	2												

LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-PC	AQ-Chla	MC-LR	Ana-a	Cylin	FP-Chl	FP-BG	HAB form	Shore HAB
69	Geneganslet L	8/6/1994	epi	16	21	1	1	1												
69	Geneganslet L	8/20/1994	epi	20	21	2	2	1												
69	Geneganslet L	9/3/1994	epi	16	19	2	1	2	5											
69	Geneganslet L	9/17/1994	epi	20	20	3	3	2	5											
69	Geneganslet L	8/1/1995	epi	30	26	1	3	2												
69	Geneganslet L	8/12/1995	epi	20	24															
69	Geneganslet L	8/26/1995	epi	20	22	1	3	2	5											
69	Geneganslet L	9/9/1995	epi	15	20	1	3	1												
69	Geneganslet L	7/22/1996	epi	22	21	1	2	1												
69	Geneganslet L	8/10/1996	epi	17	22	2	2	2	5											
69	Geneganslet L	8/31/1996	epi	21	22	1	3	1												
69	Geneganslet L	9/21/1996	epi	18	18	1	2	1	5											
69	Geneganslet L	7/13/1997	epi	24	22	1	3	1												
69	Geneganslet L	8/2/1997	epi	22	23	1	3	1												
69	Geneganslet L	8/23/1997	epi	16	20	1	2	1	5											
69	Geneganslet L	9/20/1997	epi	21	20	1	3	1	5											
69	Geneganslet L	7/11/1998	epi	21	20	1	1	1	5											
69	Geneganslet L	8/1/1998	epi	19	22	2	1	1												
69	Geneganslet L	8/22/1998	epi	24	24	1	3	1												
69	Geneganslet L	9/12/1998	epi	19	19	1	1	1												
69	Geneganslet L	6/26/1999	epi	28	24	1	1	1												
69	Geneganslet L	7/18/1999	epi	26	24	1	2	1												
69	Geneganslet L	8/7/1999	epi	19	23	1	3	1												
69	Geneganslet L	8/28/1999	epi	19	22	1	1	1												
69	Geneganslet L	6/11/2000	epi	27	22	2	1	1	5											
69	Geneganslet L	6/24/2000	epi	21	21	1	2	1	5											
69	Geneganslet L	7/10/2000	epi	25	22	2	3	1	5											
69	Geneganslet L	7/22/2000	epi	16	20	1	2	4	5											
69	Geneganslet L	8/5/2000	epi	20	22	1	2	1	6											
69	Geneganslet L	8/19/2000	epi	16	20	2	2	1	5											
69	Geneganslet L	9/2/2000	epi	24	24	1	3	1												
69	Geneganslet L	9/16/2000	epi	11	17	2	3	2	5											
69	Geneganslet L	7/2/2001	epi	15	19	2	3	1	5											
69	Geneganslet L	7/16/2001	epi	28	22	2	1	1												
69	Geneganslet L	7/30/2001	epi	24	24	1	3	1												
69	Geneganslet L	8/11/2001	epi	24	26	1	1	1												
69	Geneganslet L	8/26/2001	epi	23	24	1	1	1	5											
69	Geneganslet L	9/9/2001	epi	25	24	1	1	1	5											
69	Geneganslet L	9/24/2001	epi	18	19	2	2	2	5											
69	Geneganslet L	10/7/2001	epi	10	15	3	2	2	5											
69	Geneganslet L	06/17/02	epi	18	16	3	1	2	5											
69	Geneganslet L	06/30/02	epi	29	25	1	1	1												
69	Geneganslet L	07/14/02	epi	25	23	1	1	1												
69	Geneganslet L	07/28/02	epi	23	24	1	1	1	5											
69	Geneganslet L	08/10/02	epi	25	22	1	3	1												
69	Geneganslet L	08/26/02	epi	22	23	2	3	2												
69	Geneganslet L	09/09/02	epi	26	25	1	3	1												
69	Geneganslet L	09/25/02	epi	16	19	1	2	1	8											
69	Geneganslet L	10/15/02	epi	11	13	1	1	1	5											
69	Geneganslet L	6/16/2003	epi	22	19	2	2	2	5											
69	Geneganslet L	7/1/2003	epi	22	22	1	2	1	5											
69	Geneganslet L	7/14/2003	epi	25	24	2	2	1	5											
69	Geneganslet L	7/27/2003	epi	22	22	2	2	2	5											
69	Geneganslet L	8/10/2003	epi	26	25	2	3	1	5											
69	Geneganslet L	8/25/2003	epi	20	23	2	3	2	5											
69	Geneganslet L	9/7/2003	epi	21	20	2	2	2	5											
69	Geneganslet L	9/21/2003	epi	24	20	2	2	1	5											
69	Geneganslet L	6/20/2004	epi	18	21	2	3	1	5											
69	Geneganslet L	7/5/2004	epi	21	24	1	1	1	5											
69	Geneganslet L	7/25/2004	epi	27	25	2	2	1	0											
69	Geneganslet L	8/17/2004	epi	23	23	2	2	1	8											

LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-PC	AQ-Chla	MC-LR	Ana-a	Cylin	FP-Chl	FP-BG	HAB form	Shore HAB
69	Geneganslet L	8/30/2004	epi	23	24	2	2	2	5											
69	Geneganslet L	9/7/2004	epi	24	22	2	3	3	8											
69	Geneganslet L	9/28/2004	epi	19	20	2	2	2	5											
69	Geneganslet L	6/27/2005	epi	27	26	1	2	1	0											
69	Geneganslet L	7/11/2005	epi	27	25	1	2	1	0											
69	Geneganslet L	7/25/2005	epi	27	26	1	2	1	0											
69	Geneganslet L	8/7/2005	epi	37	27	2	2	1	0											
69	Geneganslet L	8/22/2005	epi	20	24	1	2	1	5											
69	Geneganslet L	9/11/2005	epi	26	23	1	2	1	8											
69	Geneganslet L	9/19/2005	epi	25	24	1	1	1	8											
69	Geneganslet L	10/1/2005	epi	22	20	3	2	2	5											
69	Geneganslet L	7/8/2006	epi	32	26	3	3	1	1											
69	Geneganslet L	7/17/2006	epi	28	26	2	2	2	8											
69	Geneganslet L	8/5/2006	epi	23	25	2	2	1	0											
69	Geneganslet L	8/20/2006	epi	30	24	2	3	2	5											
69	Geneganslet L	9/3/2006	epi	20	20	1	2	2	5											
69	Geneganslet L	9/10/2006	epi	19	20	2	3	1	5											
69	Geneganslet L	9/17/2006	epi	25	20	2	2	2	5											
69	Geneganslet L	9/23/2006	epi	19	19	2	2	2	5											
69	Geneganslet L	7/8/2007	epi	35	25	1	3	1	5											
69	Geneganslet L	7/16/2007	epi	26	25	2	2	1	0											
69	Geneganslet L	7/21/2007	epi	25	23	2	2	1	5											
69	Geneganslet L	8/3/2007	epi	27	26	1	2	1	0											
69	Geneganslet L	8/19/2007	epi	30	24	1	2	1	0											
69	Geneganslet L	9/1/2007	epi	21	23		2	1	5											
69	Geneganslet L	9/8/2007	epi	27	24	2	2	2	5											
69	Geneganslet L	9/22/2007	epi	22	21	2	2	1	5											
69	Geneganslet L	7/5/2008	epi	25	24															
69	Geneganslet L	7/12/2008	epi	27	25	1	1	1	0											
69	Geneganslet L	7/28/2008	epi	25	25	1	3	3	5											
69	Geneganslet L	8/11/2008	epi	19	23	2	2	4	5											
69	Geneganslet L	8/23/2008	epi	26	24	2	2	1	0											
69	Geneganslet L	9/7/2008	epi	24	24	1	1	1	0											
69	Geneganslet L	9/20/2008	epi	16	19	1	1	1	5											
69	Geneganslet L	10/4/2008	epi	15	17	1	1	1	5											
69	Geneganslet L	06/29/2009	epi	24	25	2	2	2	0											
69	Geneganslet L	07/11/2009	epi	25	24	2	3	2	5											
69	Geneganslet L	07/26/2009	epi	28	25	2	3	2	5											
69	Geneganslet L	08/11/2009	epi	27	25	2	2	2	1											
69	Geneganslet L	08/25/2009	epi	28	25	2	2	2	0											
69	Geneganslet L	09/05/2009	epi	26	22	2	3	2	0			25.26								
69	Geneganslet L	09/21/2009	epi	21	20	2	1	2	5			20.02								
69	Geneganslet L	09/26/2009	epi	16	18							26.22								
69	Geneganslet L	6/20/2010	epi	27	25	2	1	1	5	0	0									
69	Geneganslet L	7/6/2010	epi	32	29	1	3	1	0	0	57									
69	Geneganslet L	7/17/2010	epi	30	27	1	1	1	0											
69	Geneganslet L	8/1/2010	epi	31	26	2	2	1	0											
69	Geneganslet L	8/14/2010	epi	23	25	2	3	1	0	0	0									
69	Geneganslet L	8/30/2010	epi	26	23	1	1	1	0	0	0									
69	Geneganslet L	9/6/2010	epi	23	23	1	1	1	5	0	0	34.64								
69	Geneganslet L	9/18/2010	epi	20	19	1	2	1	5	0	0									
69	Geneganslet L	6/16/2012	epi	27	24	1	1	1	0	0	0	1.60	0.40	<0.30	<0.413		0.68	0.39	I	
69	Geneganslet L	6/24/2012	epi	31	25	1	2	1	0	0	0	2.10	0.60	<0.30	<0.410		0.75	0.29	I	
69	Geneganslet L	7/8/2012	epi	28	27	1	2	1	0	0	0	1.70	0.60	<0.30	<0.392		1.84	0.78	I	
69	Geneganslet L	7/22/2012	epi	25	26	1	2	1	0	0	0	2.30	0.50	<0.30	<0.328		1.44	0.32		
69	Geneganslet L	8/18/2012	epi	21	24	1	3	1	0	0	0	6.30	0.30	<0.30	<0.552		2.20	1.49	I	
69	Geneganslet L	9/1/2012	epi	27	25	2	1	1	0			6.00	0.40	<0.30	<0.580		2.14	1.57	I	
69	Geneganslet L	9/15/2012	epi	19	21	2	2	1	5			4.50	0.40	<0.30	<3.299		1.18	0.95	I	
69	Geneganslet L	9/23/2012	epi	20	19	2	1	4	5	0	0	7.80	0.60	<0.30	<3.205		2.36	1.63	I	
69	Geneganslet L	6/22/2013	epi	27	23	1	2	1	0	0	0	2.00	1.90	<0.30	<0.410		1.50	0.00	I	
69	Geneganslet L	7/6/2013	epi	31	27	2	2	1	0	0	0	1.80	2.10	<0.30	<0.510		1.70	0.00	I	

LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-PC	AQ-Chla	MC-LR	Ana-a	Cylin	FP-Chl	FP-BG	HAB form	Shore HAB
69	Geneganslet L	7/20/2013	epi	26	27	1	2	1	0			2.50	1.50	<0.30	<0.370		1.00	0.10		
69	Geneganslet L	7/26/2013	bloom											2.53	<0.760		49.40	11.9		
69	Geneganslet L	8/3/2013	epi	23	23	1	3	1	0			2.70	1.00	<0.30	<0.390		0.60	0.00		
69	Geneganslet L	8/17/2013	epi	27	24	1	2	1	0	0	0	2.90	2.00	<0.30	<0.510		1.90	0.20	i	
69	Geneganslet L	8/31/2013	epi	28	25	1	1	1	0	0	0	6.10	1.90	<0.30	<1.100		1.60	0.00		
69	Geneganslet L	9/14/2013	epi	11	20	1	1	1	5			2.00	1.30	<0.30	<0.100		0.40	0.00	i	
69	Geneganslet L	9/16/2013	bloom											1.58	<2.200		922.5	26.3		
69	Geneganslet L	9/27/2013	epi	27	19	2	3	1	0			2.80	2.30	<0.30	<0.100		1.70	0.00	i	
69	Geneganslet L	6/7/2014	epi	25	22	1	2	1	0	0	0	0.60	2.30	<3.66	<0.35	<0.003	1.70	0.00		
69	Geneganslet L	6/21/2014	epi	20	22	2	3	1	0	0	0	4.70	0.50	<0.58	<0.44	<0.002	2.00	0.00	i	
69	Geneganslet L	7/19/2014	epi	21	23	1	3	1	0	0	0	4.50	0.30	<0.39	<0.03	<0.001	1.60	0.40	i	
69	Geneganslet L	8/2/2014	epi	22	23	2	3	1	0	0	0	5.80	0.30	<0.33	<0.01	<0.002	1.30	0.00	i	
69	Geneganslet L	8/21/2014	epi	14	20	2	1	1	0	0	0	3.40	0.20	<0.39	<0.03	<0.001	0.50	0.00	i	
69	Geneganslet L	8/30/2014	epi	18	21	1	2	2	0	0	0	2.70	0.30	<0.25	<0.14	<0.002	1.00	0.00	i	
69	Geneganslet L	9/13/2014	epi	11	19	2	2	2	1	0	0	3.60	0.30	<0.24	<0.03	<0.001	0.90	0.00		
69	Geneganslet L	9/27/2014	epi	16	18	1	1	1	0	0	0	1.80	0.30	<0.19	<0.12	<0.001	1.40	0.00	i	i
69	Geneganslet L	6/20/2015	epi	14	21	2	3	1	0	0	0	4.70	0.50	<0.77	<0.126	<1.739	1.27	0.00		
69	Geneganslet L	7/5/2015	epi	21	21	1	2	1	0	0	0	5.80	0.50	<0.55	<0.004	<0.001	1.69	0.05	i	i
69	Geneganslet L	7/12/2015	Bloom	30	24	2	1	1	0	0	0	7.60	0.50	<0.86	<0.008	<0.046	1.86	0.42		
69	Geneganslet L	7/12/2015	bloom											<1.57	<0.006	<0.022	36.69	0.00		d
69	Geneganslet L	7/18/2015	epi											<1.57	1.31	<0.022	75.22	0.00		d
69	Geneganslet L	8/1/2015	epi	21	22	2	3	3	5	4	4	3.70	0.40	<0.36	<0.003	<0.018	1.68	0.73	i	
69	Geneganslet L	8/15/2015	epi	20	25	2	1	1	0	0	0	4.07	0.48	<0.18	<0.002	<0.009	1.19	0.09	i	
69	Geneganslet L	8/29/2015	epi	24	24	2	1	1	0	0	0	2.30	0.30	<0.28	<0.008	<0.021	1.03	0.36	H	
69	Geneganslet L	9/12/2015	epi	28	23	2	1	1	0	0	0			<0.49	<0.031	<0.028	1.17	0.00	i	
69	Geneganslet L	6/20/2015	epi	21	24	2	2	2	0	0	0	3.10	0.40	<0.27	0.00	<0.022	0.89	0.00	i	
69	Geneganslet L	7/5/2015	epi	14	21	2	3	1	0	0	0	4.70	0.50	<0.77	<0.126	<1.739	1.27	0.00		
69	Geneganslet L	7/3/1993	hypo	20	11															
69	Geneganslet L	7/30/1993	hypo	18	8															
69	Geneganslet L	9/25/1993	hypo	20	9															
69	Geneganslet L	6/25/1994	hypo	20	7	2	1	2	5											
69	Geneganslet L	8/20/1994	hypo		9															
69	Geneganslet L	9/17/1994	hypo		9															
69	Geneganslet L	06/17/02	hypo	18	8	3	1	2	5											
69	Geneganslet L	06/30/02	hypo	29	9	1	1	1												
69	Geneganslet L	07/14/02	hypo	25	9	1	1	1												
69	Geneganslet L	07/28/02	hypo	23	8	1	1	1	5											
69	Geneganslet L	08/10/02	hypo	25	8	1	3	1												
69	Geneganslet L	08/26/02	hypo	22	9	2	3	2												
69	Geneganslet L	09/09/02	hypo	26	9	1	3	1												
69	Geneganslet L	09/25/02	hypo	16	8	1	2	1	8											
69	Geneganslet L	6/16/2003	hypo		8															
69	Geneganslet L	7/1/2003	hypo		9															
69	Geneganslet L	7/14/2003	hypo		10															
69	Geneganslet L	7/27/2003	hypo		9															
69	Geneganslet L	8/10/2003	hypo		10															
69	Geneganslet L	8/25/2003	hypo		9															
69	Geneganslet L	9/7/2003	hypo		10															
69	Geneganslet L	9/21/2003	hypo		9															
69	Geneganslet L	6/20/2004	hypo		7															
69	Geneganslet L	7/5/2004	hypo		9															
69	Geneganslet L	7/25/2004	hypo		8															
69	Geneganslet L	8/17/2004	hypo		7															
69	Geneganslet L	8/30/2004	hypo		8															
69	Geneganslet L	9/7/2004	hypo		8															
69	Geneganslet L	9/28/2004	hypo		8															
69	Geneganslet L	6/27/2005	hypo		8															
69	Geneganslet L	7/11/2005	hypo		8															
69	Geneganslet L	7/25/2005	hypo		9															
69	Geneganslet L	8/7/2005	hypo		8															
69	Geneganslet L	8/22/2005	hypo		8															

LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-PC	AQ-Chla	MC-LR	Ana-a	Cylin	FP-Chl	FP-BG	HAB form	Shore HAB
69	Geneganslet L	9/11/2005	hypo		9															
69	Geneganslet L	9/19/2005	hypo		9															
69	Geneganslet L	7/8/2006	hypo		8															
69	Geneganslet L	7/17/2006	hypo		10															
69	Geneganslet L	8/5/2006	hypo		9															
69	Geneganslet L	8/20/2006	hypo		9															
69	Geneganslet L	9/3/2006	hypo		8															
69	Geneganslet L	9/10/2006	hypo		8															
69	Geneganslet L	9/17/2006	hypo		10															
69	Geneganslet L	9/23/2006	hypo		9															
69	Geneganslet L	7/8/2007	hypo		8															
69	Geneganslet L	7/16/2007	hypo		7															
69	Geneganslet L	7/21/2007	hypo		8															
69	Geneganslet L	8/3/2007	hypo		9															
69	Geneganslet L	8/19/2007	hypo		9															
69	Geneganslet L	9/1/2007	hypo		8															
69	Geneganslet L	9/8/2007	hypo		9															
69	Geneganslet L	9/22/2007	hypo		8															
69	Geneganslet L	7/5/2008	hypo		8															
69	Geneganslet L	7/12/2008	hypo		9															
69	Geneganslet L	7/28/2008	hypo		8															
69	Geneganslet L	8/11/2008	hypo		9															
69	Geneganslet L	8/23/2008	hypo		10															
69	Geneganslet L	9/7/2008	hypo		9															
69	Geneganslet L	9/20/2008	hypo		8															
69	Geneganslet L	10/4/2008	hypo		8															
69	Geneganslet L	06/29/2009	hypo		8															
69	Geneganslet L	07/11/2009	hypo		8															
69	Geneganslet L	07/26/2009	hypo		8															
69	Geneganslet L	08/11/2009	hypo		9															
69	Geneganslet L	08/25/2009	hypo		9															
69	Geneganslet L	09/05/2009	hypo		9															
69	Geneganslet L	09/21/2009	hypo		8															
69	Geneganslet L	09/26/2009	hypo		8															
69	Geneganslet L	6/20/2010	hypo		9															
69	Geneganslet L	7/17/2010	hypo		9															
69	Geneganslet L	8/14/2010	hypo		8															
69	Geneganslet L	9/6/2010	hypo		8															
69	Geneganslet L	6/16/2012	hypo		10															
69	Geneganslet L	7/8/2012	hypo		10															
69	Geneganslet L	8/18/2012	hypo		10															
69	Geneganslet L	9/15/2012	hypo		11															
69	Geneganslet L	6/22/2013	hypo		9															
69	Geneganslet L	7/20/2013	hypo		11															
69	Geneganslet L	8/17/2013	hypo		8															
69	Geneganslet L	9/14/2013	hypo		9															
69	Geneganslet L	6/7/2014	hypo		11															
69	Geneganslet L	6/21/2014	hypo		10															
69	Geneganslet L	7/19/2014	hypo		11															
69	Geneganslet L	8/2/2014	hypo		10															
69	Geneganslet L	8/21/2014	hypo		9															
69	Geneganslet L	8/30/2014	hypo		9															
69	Geneganslet L	9/13/2014	hypo		9															
69	Geneganslet L	9/27/2014	hypo		10															
69	Geneganslet L	6/7/2015	hypo		8															
69	Geneganslet L	6/20/2015	hypo		10															
69	Geneganslet L	7/5/2015	hypo		9															
69	Geneganslet L	7/18/2015	hypo		8															
69	Geneganslet L	8/1/2015	hypo		8															
69	Geneganslet L	8/15/2015	hypo		9															
69	Geneganslet L	8/29/2015	hypo		9															

69	Geneganslet L	9/12/2015	hypo		10														
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Legend Information

<i>Indicator</i>	<i>Description</i>	<i>Detection Limit</i>	<i>Standard (S) / Criteria (C)</i>
General Information			
Lnum	lake number (unique to CSLAP)		
Lname	name of lake (as it appears in the Gazetteer of NYS Lakes)		
Date	sampling date		
Field Parameters			
Zbot	lake depth at sampling point, meters (m)		
Zsd	Secchi disk transparency or clarity	0.1m	1.2m (C)
Zsamp	water sample depth (m) (epi = epilimnion or surface; bot = bottom)	0.1m	none
Tair	air temperature (C)	-10C	none
TH20	water temperature (C)	-10C	none
Laboratory Parameters			
Tot.P	total phosphorus (mg/l)	0.003 mg/l	0.020 mg/l (C)
NOx	nitrate + nitrite (mg/l)	0.01 mg/l	10 mg/l NO3 (S), 2 mg/l NO2 (S)
NH4	total ammonia (mg/l)	0.01 mg/l	2 mg/l NH4 (S)
TN	total nitrogen (mg/l)	0.01 mg/l	none
TN/TP	nitrogen to phosphorus (molar) ratio, = (TKN + NOx)*2.2/TP		none
TCOLOR	true (filtered) color (ptu, platinum color units)	1 ptu	none
pH	powers of hydrogen (S.U., standard pH units)	0.1 S.U.	6.5, 8.5 S.U. (S)
Cond25	specific conductance, corrected to 25C (umho/cm)	1 umho/cm	none
Ca, Cl	calcium, chloride (mg/l)	1 mg/l	none
Chl.a	chlorophyll a (ug/l)	0.01 ug/l	none
Fe	iron (mg/l)	0.1 mg/l	1.0 mg/l (S)
Mn	manganese (mg/l)	0.01 mg/l	0.3 mg/l (S)
As	arsenic (ug/l)	1 ug/l	10 ug/l (S)
AQ-PC	Phycocyanin (aquafior) (unitless)	1 unit	none
AQ-Chl	Chlorophyll a (aquafior) (ug/l)	1 ug/l	none
MC-LR	Microcystis-LR (ug/l)	0.01 ug/l	1 ug/l potable (C) 20 ug/l swimming (C)
Ana	Anatoxin-a (ug/l)	variable	none
Cyl	Cylindrospermopsin (ug/l)	0.1 ug/l	none
FP-Chl, FP-BG	Fluoroprobe total chlorophyll, fluoroprobe blue-green chlorophyll (ug/l)	0.1 ug/l	none
Lake Assessment			
QA	water quality assessment; 1 = crystal clear, 2 = not quite crystal clear, 3 = definite algae greenness, 4 = high algae levels, 5 = severely high algae levels		
QB	aquatic plant assessment; 1 = no plants visible, 2 = plants below surface, 3 = plants at surface, 4 = plants dense at surface, 5 = surface plant coverage		
QC	recreational assessment; 1 = could not be nicer, 2 = excellent, 3 = slightly impaired, 4 = substantially impaired, 5 = lake not usable		
QD	reasons for recreational assessment; 1 = poor water clarity, 2 = excessive weeds, 3 = too much algae, 4 = lake looks bad, 5 = poor weather, 6 = litter/surface debris, 7 = too many lake users, 8 = other		
QF, QG	Health and safety issues today (QF) and past week (QG); 0 = none, 1 = taste/odor, 2 = GI illness humans/animals, 3 = swimmers itch, 4 = algae blooms, 5 = dead fish, 6 = unusual animals, 7 = other		
HAB form, Shore HAB	HAB evaluation; A = spilled paint, B = pea soup, C = streaks, D = green dots, E = bubbling scum, F = green/brown tint, G = duckweed, H = other, I = no bloom		

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, general recreation use and aquatic life support, but not for drinking water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

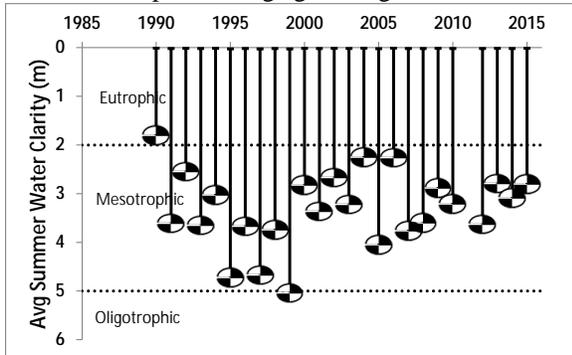
Segment Description

This segment includes the total area of the entire lake.

Appendix C- Long Term Trends: Geneganslet Lake

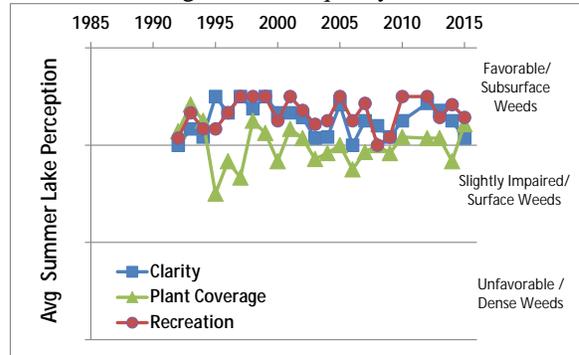
Long Term Trends: Water Clarity

- ↓ mid-1990s to present
- Most readings typical of *mesotrophic* lakes, in expected range given algae and TP levels



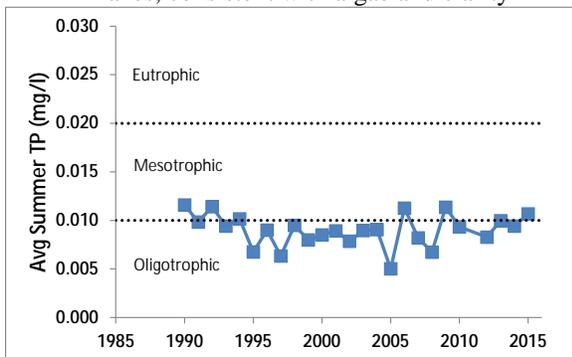
Long Term Trends: Lake Perception

- No trends apparent; perception favorable
- Recreational perception more closely linked to changes in water quality than weeds



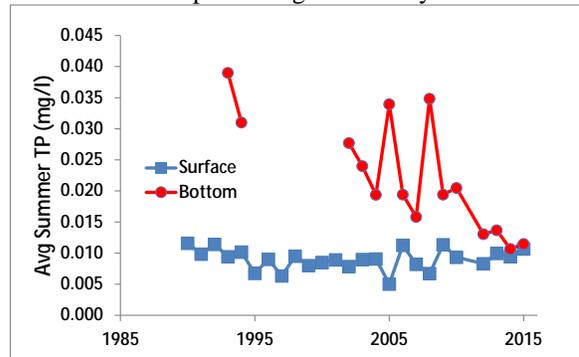
Long Term Trends: Phosphorus

- No trends apparent; slight annual changes
- Most readings typical of *mesoligotrophic* lakes, consistent with algae and clarity



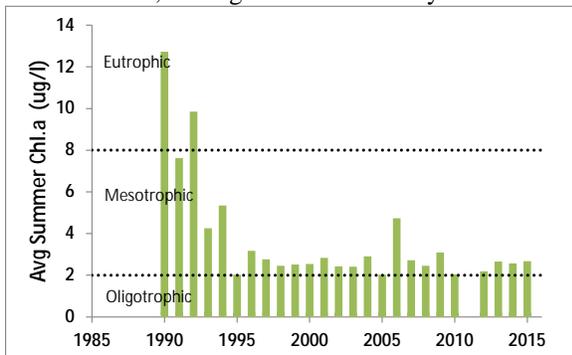
Long Term Trends: Bottom Phosphorus

- Bottom TP dropping; slight higher than surf
- Bottom TP suggests little internal nutrient load despite strong thermal layer



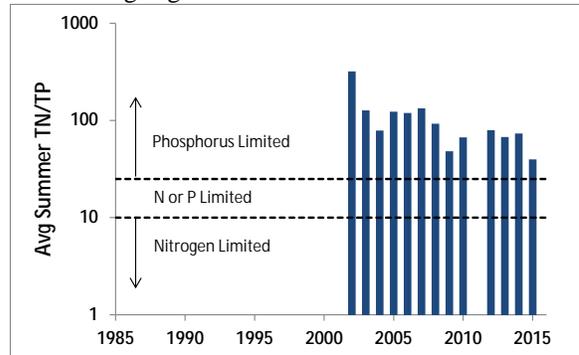
Long Term Trends: Chlorophyll a

- Lower but stable since mid-90s
- Most readings typical of *mesoligotrophic* lakes, in range of TP and clarity



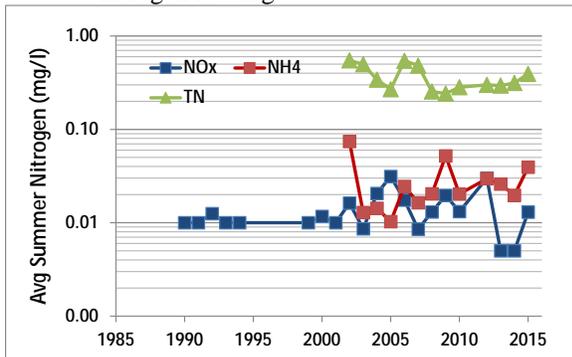
Long Term Trends: N:P Ratio

- Decreasing ratios
- Most readings indicate phosphorus limits algae growth



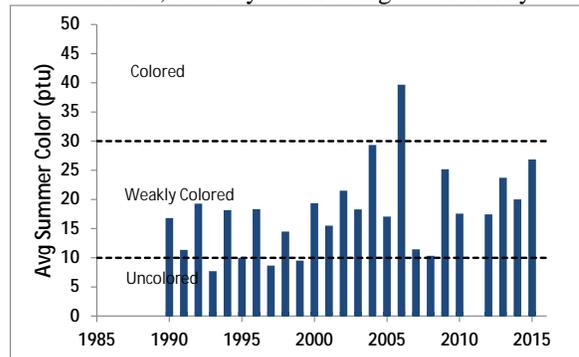
Long Term Trends: Nitrogen

- No trends apparent
- Generally low NO_x, ammonia, and total nitrogen readings



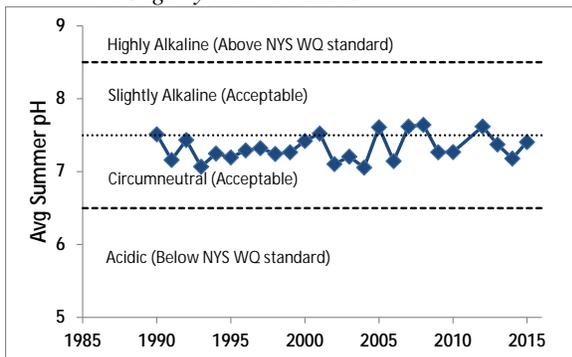
Long Term Trends: Color

- Higher color after 2002 but no clear trend
- Most readings typical of *weakly colored* lakes, but may be affecting water clarity



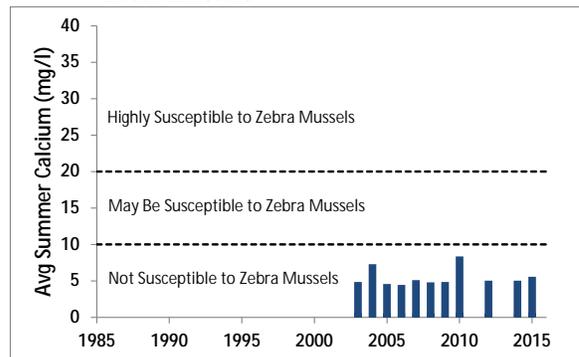
Long Term Trends: pH

- No trends apparent; readings fairly stable
- Most readings now typical of *circumneutral* to *slightly alkaline* lakes



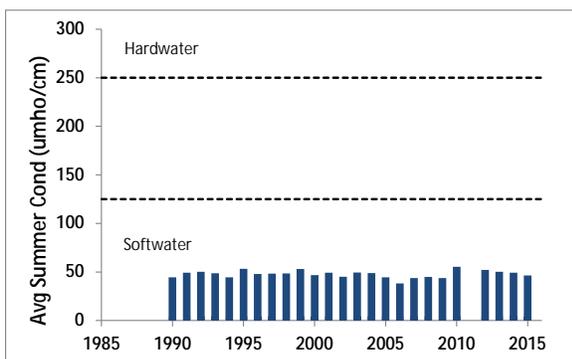
Long Term Trends: Calcium

- No trends apparent
- Most readings indicate low susceptibility to zebra mussels



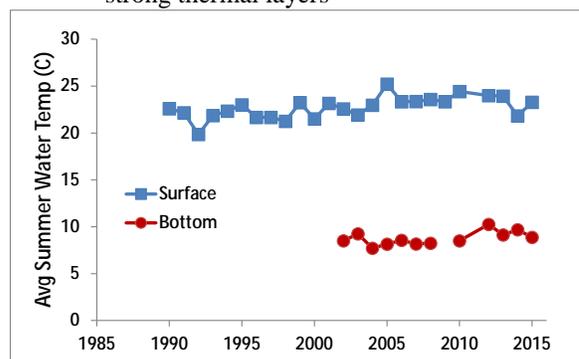
Long Term Trends: Conductivity

- Readings very stable with no clear trend
- Most readings typical of lakes with *soft water*



Long Term Trends: Water Temperature

- Slight increase in surface temperatures
- Much colder bottom temperatures indicate strong thermal layers



Appendix D: Algae Testing Results from SUNY ESF Study

Most algae are harmless, naturally present, and an important part of the food web. However excessive algae growth can cause health, recreational, and aesthetic problems. Some algae can produce toxins that can be harmful to people and animals. High quantities of these algae are called harmful algal blooms (HABs). CSLAP lakes have been sampled for a variety of HAB indicators since 2008. This was completed on selected lakes as part of a NYS DOH study from 2008-2010. In 2011, enhanced sampling on all CSLAP lakes was initiated through an EPA-funded project that has continued through the current sampling season. This study has evaluated a number of HAB indicators as follows:

- Algae types - blue green, green, diatoms, and "other"
- Algae densities
- Microscopic analysis of bloom samples
- Algal toxin analysis

Some of these results are reported in other portions of these reports. This appendix the seasonal change in blue green algae, other algae types, and the primary algal toxin (microcystin-LR, a liver toxin). Analysis was completed on open water samples and, for some lakes, shoreline samples that were collected when visual evidence of blooms were apparent. Results are compared to the DEC criteria of 25-30 ug/l blue green chlorophyll a and 20 ug/l microcystin-LR (based on the World Health Organization (WHO) threshold for unsafe swimming conditions) and the WHO provisional criteria for long-term protection of treated water supplies (= 1 ug/l microcystin-LR). The data for algae types are drawn from a high end fluorometer used by SUNY ESF. While these results are useful for timely approximation of lake conditions, they are not as accurate as the total chlorophyll results measured as a regular part of CSLAP since 1986 in all open water samples. Therefore these results are used judiciously in the assessment of sampled waterbodies.

Two separate samples are evaluated. A sample is taken at the CSLAP sample point at the deepest point of the lake at every sample session. In addition, shoreline samples can be taken when a bloom is visible. It should be noted that shoreline conditions can vary significantly over time and from one location to another. The shoreline bloom sampling results summarized below are not collected as routinely as open water samples, and therefore represent snapshots in time. It is assumed that sampling results showing high blue green algae and/or toxin levels indicate that algae blooms may be common and/or widespread on these lakes. However, the absence of elevated blue green algae and toxin levels does not assure the lack of shoreline blooms on these lakes. Elevated open water readings may indicate a higher likelihood of shoreline blooms, but in some lakes, these shoreline blooms have not been (well) documented.

The results from these samples are summarized within the CSLAP report for the lake.



Figure D1:
2013 Open Water Total and BGA Chl.a

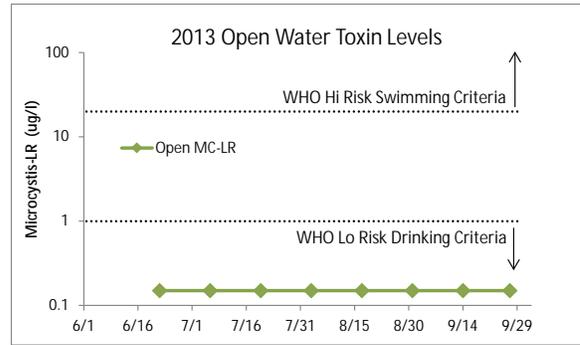


Figure D2:
2013 Open Water Microcystin-LR

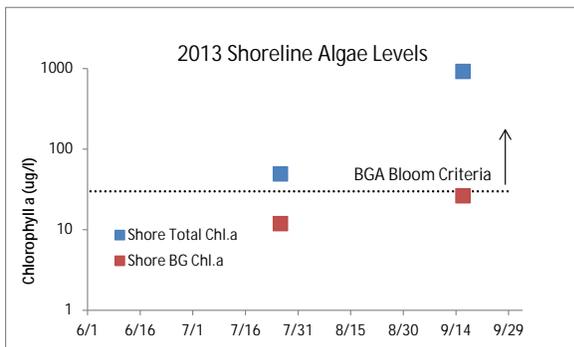


Figure D3:
2013 Shoreline Total and BGA Chl.a



Figure D4:
2013 Shoreline Microcystin-LR

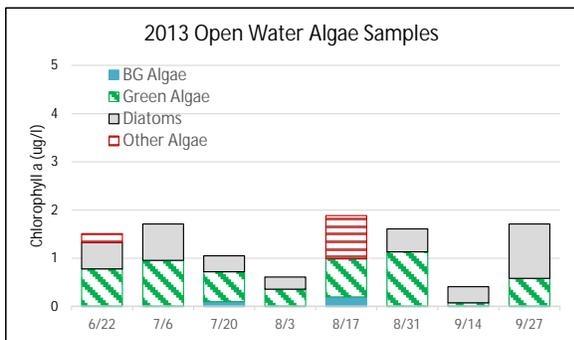


Figure D5:
2013 Open Water Algae Types

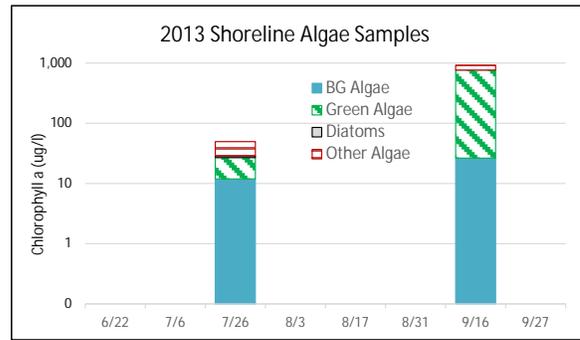


Figure D6:
2013 Shoreline Algae Types

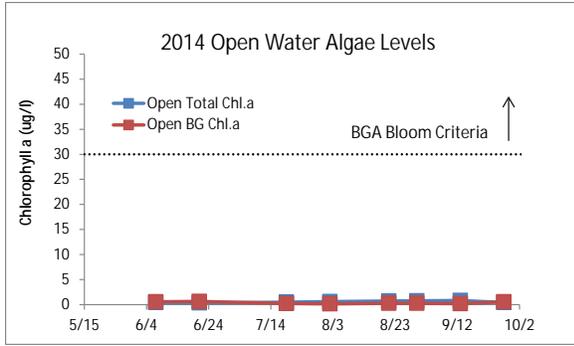


Figure D7:
2014 Open Water Total and BGA Chl.a

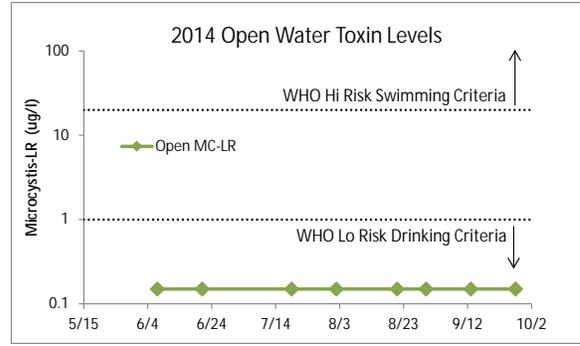


Figure D8:
2014 Open Water Microcystin-LR

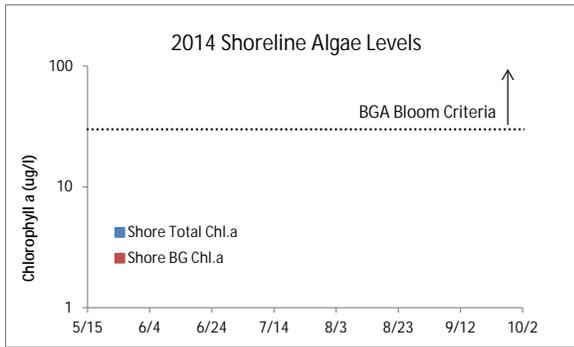


Figure D9:
2014 Shoreline Total and BGA Chl.a

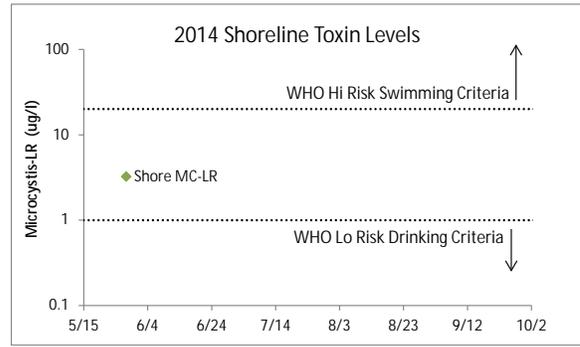


Figure D10:
2014 Shoreline Microcystin-LR

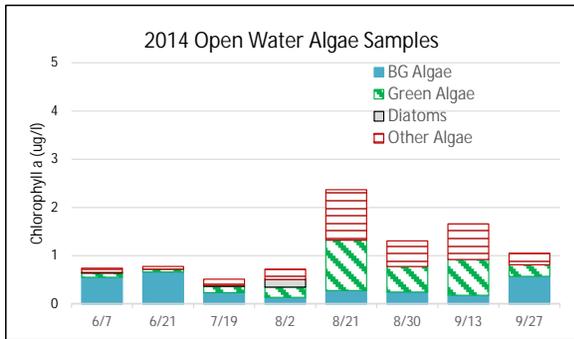


Figure D11:
2014 Open Water Algae Types

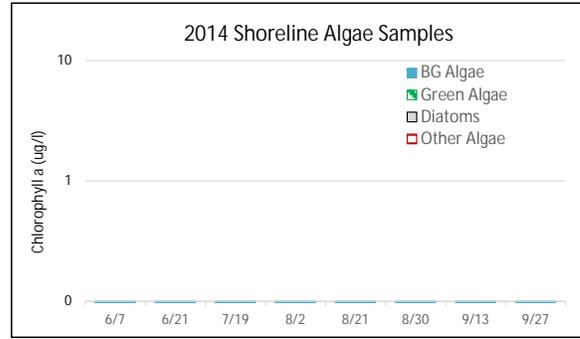


Figure D12:
2014 Shoreline Algae Types

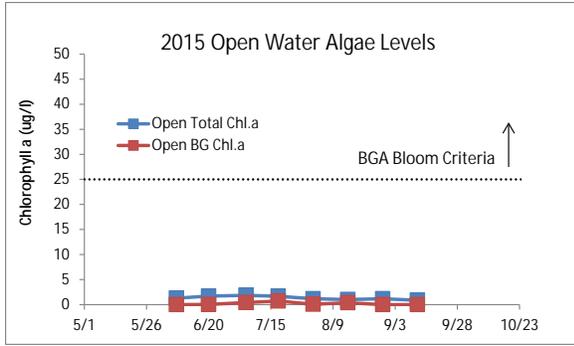


Figure D13:
2015 Open Water Total and BGA Chl.a

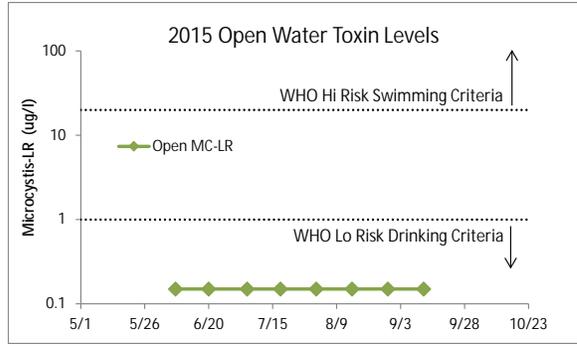


Figure D14:
2015 Open Water Microcystin-LR

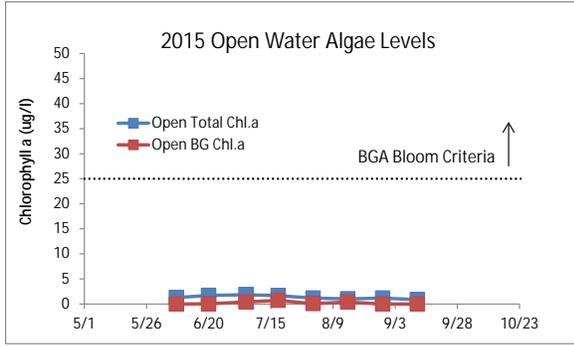


Figure D15:
2015 Shoreline Total and BGA Chl.a

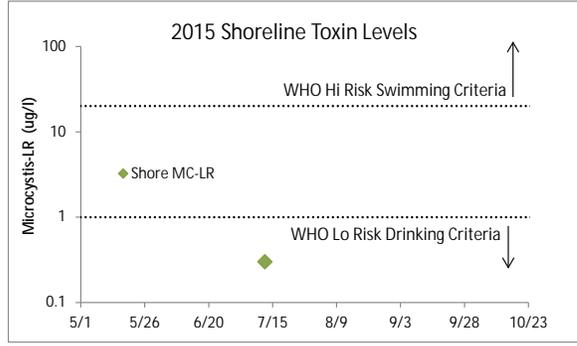


Figure D16:
2015 Shoreline Microcystin-LR

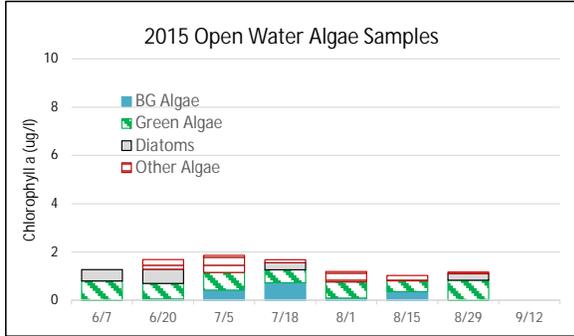


Figure D17:
2015 Open Water Algae Types

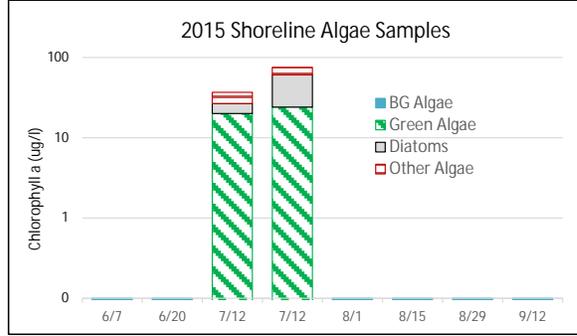


Figure D18:
2015 Shoreline Algae Types

Appendix E: AIS Species in Chenango County

The table below shows the invasive aquatic plants and animals that have been documented in Chenango County, as cited in either the iMapInvasives database (<http://www.imapinvasives.org/>) or in the NYSDEC Division of Water database. These databases may include some, but not all, non-native plants or animals that have not been identified as “Prohibited and Regulated Invasive Species” in New York state regulations (6 NYCRR Part 575; http://www.dec.ny.gov/docs/lands_forests_pdf/islist.pdf).

This list is not complete, but instead represents only those species that have been reported and verified within the county. If any additional aquatic invasive species (AIS) are known or suspected in these or other waterbodies in the county, this information should be reported through iMap invasives or by contacting NYSDEC at dowinfo@dec.ny.gov.

Aquatic Invasive Species – Chenango County			
Waterbody	Kingdom	Common name	Scientific name
Balsam Pond	Plant	Variable watermilfoil	<i>Myriophyllum heterophyllum</i>
Bowman Lake	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Chenango Lake	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Chenango River near Greene	Animal	Asian clam	<i>Corbicula fluminea</i>
Chenango River near Oxford	Animal	Asian clam	<i>Corbicula fluminea</i>
Guilford Lake	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Hunt Pond	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Jackson Pond	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Long Pond	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Mill Brook Reservoir	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Mud Creek e of Cortland	Animal	Asian clam	<i>Corbicula fluminea</i>
Otselic River near Pitcher	Animal	Asian clam	<i>Corbicula fluminea</i>
Plymouth Reservoir	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Warn Lake	Plant	Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Warn Lake	Plant	Curly leafed pondweed	<i>Potamogeton crispus</i>

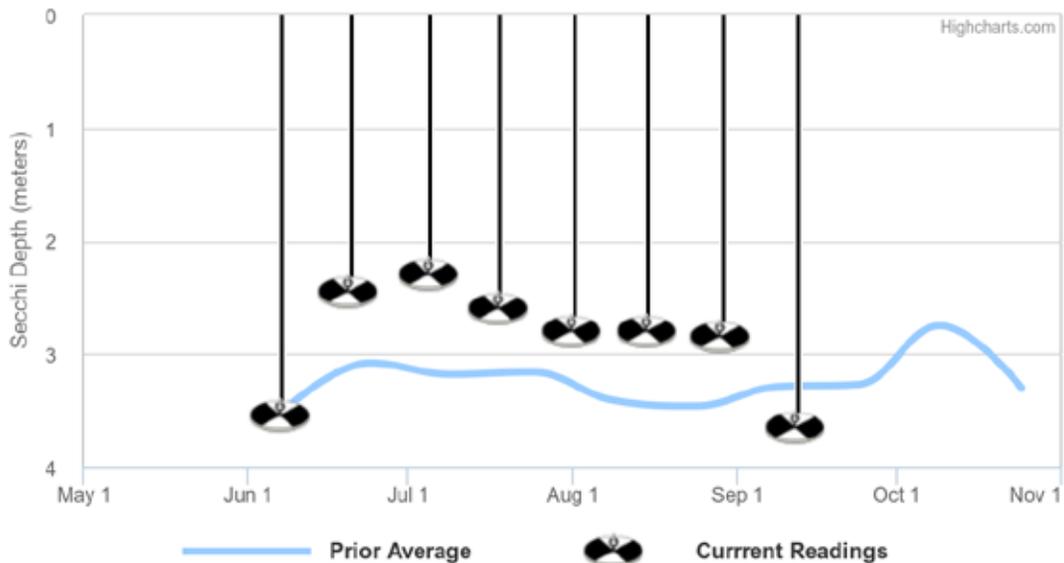
Appendix F: Current Year vs. Prior Averages for Geneganslet Lake

Current Year Water Temperatures vs. Prior Average



This year's shallow water sample temperatures are tending to be higher than normal when compared to the average of readings collected from 1990 to 2014. This year's deep water sample temperatures are tending to be higher than normal when compared to the average of readings collected from 1993 to 2014.

Current Year Secchi Readings vs. Prior Average



This year's session Secchi readings are tending to be lower than normal when compared to the average of readings collected from 1990 to 2014

Appendix G: Watershed and Land Use Map for Geneganslet Lake

This watershed and land use map was developed using USGS StreamStats and ESRI ArcGIS using the 2006 land use satellite imagery. The actual watershed map and present land uses within this watershed may be slightly different due to the age of the underlying data and some limits to the use of these tools in some geographic regions and under varying flow conditions. However, these maps are intended to show the approximate extent of the lake drainage basin and the major land uses found within the boundaries of the basin.

