CSLAP 2013 Lake Water Quality Summary: Schroon Lake

General Lake Information

Location Towns of Chester, Horicon and Schroon

County Essex and Warren Upper Hudson River

Size 1,670.6 hectares (4,126.4 acres)

Lake Origins Natural

Watershed Area 136,000 hectares (335,920 acres)

Retention Time0.4 yearsMean Depth17 metersSounding Depth44 metersPublic Access?DEC launch

Major Tributaries Schroon River, Alder Creek, Mill Brook, Rogers Brook,

Spectacle Brook, Sucker Brook, Sucker Brook

Lake Tributary To... Schroon River to Hudson River

WQ Classification AA (potable water)

Lake Outlet Latitude 43.728 **Lake Outlet Longitude** -73.812

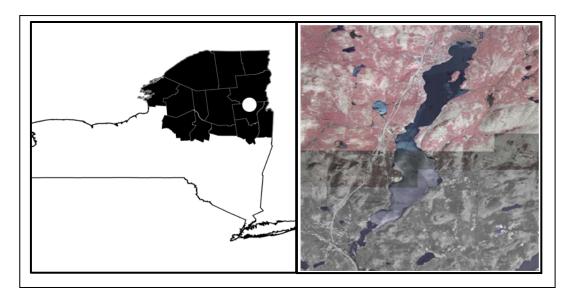
Sampling Years 1987-1995, 1997-2013

2013 Samplers Chuck and Nancy Harste, Sandy Salit, M. Weinberg, P. and

M. Korn, Bob Colegrove and Mike Purdy

Main Contact Chuck Harst and Bob Colegrove

Lake Map



Background

Schroon Lake is a 4125 acre, class AA lake found in the Town of Schroon in Essex County and the town of Horicon in Essex County, in southeastern Adirondack region of New York State. It was first sampled as part of CSLAP in 1987.

It is one of nine CSLAP lakes among the more than 270 lakes found in Essex County, one of 12 CSLAP lakes among the 120 lakes in Warren County, and one of 25 CSLAP lakes among the more than 470 lakes and ponds in the Upper Hudson River drainage basin.

Lake Uses

Schroon Lake is a Class AA lake; this means that the best intended use for the lake is for potable water use—drinking, contact recreation—swimming and bathing, non-contact recreation—boating and angling, aquatic life, and aesthetics. The lake is used by lake residents and visitors for swimming, boating and other recreation via shoreline properties and a public boat launch.

The state stocks about 7,300 six to seven inch lake trout and about 3,000 seven inch landlocked salmon each year at Schroon Lake. Fish species in the lake include Atlantic salmon, black crappie, brown bullhead, lake trout, largemouth bass, northern pike, pumpkinseed sunfish, rainbow smelt, rock bass, white sucker, and yellow perch.

General statewide fishing regulations are applicable in Schroon Lake. In addition, for sunfish, yellow perch, and pickerel, the open season lasts all year long, with no daily take or size limit. For landlocked salmon, open season lasts all year long, with a minimum size limit of 15 inches and a daily take limit of three fish. There is a daily limit of two lake trout and a minimum size of 18 inches. For trout, there is a daily take limit of five fish, but no size limits or limits on the length of the open season.

In addition to the statewide fish consumption advisories, there are several fish advisories governing consumption of fish in Schroon Lake. For lake trout greater than 27 inches in length, yellow perch more than 13 inches in length, or smallmouth bass of any size, the New York State Department of Health recommends no more than a single meal per month.

Historical Water Quality Data

CSLAP sampling was conducted on Schroon Lake from 1987 to 1995, and 1997 to 2013. 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 and scorecard for Schroon Lake can also be found on the NYSDEC web page at http://www.dec.ny.gov/lands/77872.html.

Schroon Lake has been sampled through a number of major monitoring programs. It was sampled in 1992 as part of the US Environmental Protection Agency (USEPA) Environmental Monitoring and Assessment Program (EMAP), a short-term nationwide monitoring program in which samples lakes are randomly chosen. The lake was also sampled in 1991 as part of the USEPA Temporal Integrated Monitoring (TIME) program used to evaluate lake acidity and other water quality issues. Schroon Lake was also sampled through several NYSDEC monitoring programs prior to CSLAP, including the Lake Classification and Inventory (LCI) survey and its predecessor ambient lake monitoring program in 1982, 1973 and 1972. The lake has also been

regularly sampled by NYSDEC Fisheries staff, recently in 1983, 1984, 1989, and 1998, and originally by the Conservation Department (the predecessor to the NYSDEC) as part of the Biological Survey of the Black River basin in 1931. The lake was also sampled extensively by Adirondack Ecologists (AE) through consulting work conducted by Steve LaMere.

The data from the USEPA and NYSDEC monitoring programs from the early 1970s through the early 1990s indicated that water quality conditions were similar to that measured through CSLAP starting in the late 1980s. There was depressed pH in the 1982 LCI surface sample, but it is likely that this was not representative of the lake.

The 1932 Biological Survey was intended in part to evaluate water quality conditions as they relate to fisheries management, so much of the information collected cannot be easily compared to the CSLAP dataset. The summary information for the lake included the following:

"Within the area bounded by its shores are a variety of depths and bottom conditions which meet the life requirements of several species of fishes. A large part of the lakes is over 50 feet deep and in most places the bottom slopes rapidly away from the shores which are made for the most part of sand, gravel, or rubble. The oxygen and temperature relationships are especially good, the oxygen value of 8.1 parts per million which obtains on the bottom in 130 feet of water surpassing all other records secured in the deep part of lakes in the watershed. In spite of these excellent conditions in the deeper portions of the lake there are few records of lake trout for this season.

The principal weed beds are located at the head and foot of the lake and extend into the river at the foot. Few weeds grow along the greater part of the shoreline because of the hard bottom and the action of winds which have an unobstructed sweep of the length of the lake.

(Schroon Lake) has a rather irregular shoreline which provides several large bays, some of which support considerable weed areas. The most extensive weed areas were found in the narrow bay at the south end and in the mouth of the Schroon River. Another weed area was found at the north end west of the Schroon River"

The water quality data showed much higher water transparency than in any of the monitoring programs conducted 40 to 60 years later. Dissolved oxygen levels were very high even at the lake bottom in 130 feet of water.

None of the major tributaries to the lake (Mill Brook, Sucker Brook, Spectacle Brook, Rogers Brook, and the Schroon River) have been sampled through the state Rotating Intensive Basins (RIBS) stream monitoring program. However, Mill Brook at Adirondack and the Schroon River at Schroon Falls were sample as part of the state stream biomonitoring program in 2001. The summary of those sampling results is as follows, as appearing in the 30 Year Trends in Water Quality of Rivers and Streams in New York State (1972-2002):

"(Mill Brook) This small tributary of Schroon Lake was sampled at Adirondack in 2001, and was assessed as non-impacted. Two metrics were within the range of slight impact, and the headwater correction factor was applied to these. The stream habitat of boulders was not conducive to a diverse fauna.

(Schroon River) The upstream site at Schroon Falls was assessed as slightly impacted in 2001. Although the fauna contained many clean-water mayflies, stoneflies, and caddisflies, species richness was low, possibly due to the substrate of boulders embedded in sand. A similarly reduced fauna was found at the downstream Warrensburg site. Previous sampling assessed the Schroon Falls site as non-impacted in 1994. The Warrensburg site was assessed as non-impacted in 1994, slightly impacted in 1993, and non-impacted in 1987 and 1988. Further sampling of these sites is recommended to determine if the decline is genuine."

Lake Association and Management History

Schroon Lake is served by the Schroon Lake Association and the East Shore Schroon Lake Association. The former was founded in 1911, the latter in 1964, and these associations collectively oversee much of the management of the lake. This includes:

- Hiring a lake manager to evaluate water quality data, conduct milfoil hand harvesting and matting, and recommending other management actions
- Development of a lake management master plan
- Conducting association and outreach educational efforts
- Conducting Scientific studies
- Supporting management activities through donations and SLA arts and crafts show
- Coordinating volunteer weed watchers through the APIPP program
- Developing a volunteer Milfoil Scout Program

The Schroon Lake Association maintains a website at www.schroonlakeassociation.com. The East Shore Schroon Lake Association maintains a website at www.essla.org.

Summary of 2013 CSLAP Sampling Results

Evaluation of 2013 Annual and Monthly Results Relative to 2006-2012

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 – Schroon Lake" section in Appendix C.

Evaluation of Eutrophication Indicators

Chlorophyll *a* samples (algae filters) were not submitted from the north basin in 2012 or 2013, but algae levels were slightly higher than normal in the south basin in 2013, and phosphorus readings in the north basin were higher than normal in 2013. Algae levels in the north basin have decreased slightly since the early 1990s, despite a slight increase in phosphorus readings since the mid 2000s. None of these indicators has exhibited any clear long-term trends in the south basin. Lake productivity is fairly stable (or varies unpredictably) over the course of the typical summer in both basins, and no seasonal trends in these indicators were apparent in 2012 or 2013.

The lake continues to be characterized as *mesoligotrophic* at both sites, based on water clarity (typical of *mesotrophic* lakes), total phosphorus readings (typical of *oligotrophic* lakes) and chlorophyll *a* readings (typical of *mesotrophic* lakes in the north basin and *oligotrophic* lakes in

the south basin). The trophic state indices (TSI) evaluation suggests that each of these trophic indicators is "internally consistent"—each of these indicators is in the expected range given the readings of the other indicators—although phosphorus levels are lower than expected (given the algae and water clarity readings) in the south basin. Overall trophic conditions are summarized on the Lake Scorecards.

Lake productivity appears to be slightly higher in the north basin than in the south basin, based on typically higher chlorophyll *a* readings measured in the north basin, although the difference in the water quality conditions in these basins is not significant. Overall trophic conditions are summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Potable Water Indicators

Algae levels are 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. Hypolimnetic phosphorus and ammonia readings in Schroon Lake are similar to those measured at the lake surface. Deepwater iron, manganese and arsenic levels appear to be low in the north basin, but higher iron readings were apparent at times in the south basin—none of these indicators was measured in 2013 due to a laboratory instrumentation problem. This suggests that deepwater intakes may support potable water use in the north basin, and would probably support this use in the south basin. Potable water conditions, at least as measurable through CSLAP, are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Limnological Indicators

NOx readings were lower than normal in both basins in 2013, although these changes were not part of a long-term change. Ammonia readings were lower than normal in 2013 in the south basin, but also not part of a long-term change, and total nitrogen readings in the south basin have increased since the early 2000s. However, all nitrogen readings have remained very low. pH readings were higher than normal in both sites in 2012 and 2013, but still well within the acceptable range, despite a slight increase in pH over the last decade in the south basin. Conductivity readings were lower than normal in the south basin in 2013. Color readings have been higher since 2002, but this is probably due to the laboratory change and has not resulted in any change in water clarity (and therefore may not be a "real" change). It is likely that most of the small changes in these indicators represent normal variability, since, among these limnological indicators, only the slight rise in pH and total nitrogen in the south basin was statistically significant. Limnological conditions were mostly comparable in both basins. Overall limnological conditions are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Biological Condition

Macrophyte communities in the lake have been evaluated by the Darrin Freshwater Institute. These plant surveys found a high plant diversity, with at least 20 plant species, including two protected plant species (*Myriophyllum alterniflorum*, alternate flower watermilfoil, and *Potamogeton alpinus*, northern pondweed) and one invasive exotic plant species (*Myriophyllum spicatum*, Eurasian watermilfoil). The modified floristic quality index (FQI) indicates the quality of the aquatic plant community is "excellent."

The fish community in the lake is comprised of a mix of coldwater (at least two species), coolwater (at least five species) and warmwater (at least five species) fish. This indicates that the lake supports a two story fishery.

Zooplankton and macroinvertebrate surveys have not been conducted through CSLAP at Schroon Lake, although historical data from previous studies may be included in future generations of the CSLAP reports. The fluoroprobe screening samples analyzed by SUNY ESF in 2012 and 2013 indicated low overall algae levels and low percentages of blue green algae, and no shoreline blooms have been reported or sampled at either site.

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

Evaluation of Lake Perception

Water quality assessments, aquatic plant coverage, and recreational conditions in the north basin of Schroon Lake were close to normal in 2013. Aquatic plant coverage was more significant in the south basin in 2012 and 2013, and plant coverage is reported by the CSLAP volunteers to have increased slightly in recent years. Recreational assessments in the south basin in 2013 were less favorable than normal, but this was not associated with the greater plant coverage or any water quality changes.

Recreational and water quality assessments improve slightly during the typical summer in both basins, but this was not apparent in 2012 or 2013. Overall lake perception is summarized on the Lake Scorecard and Lake Condition Summary Table. Lake perception was comparable at both sampling sites.

Evaluation of Local Climate Change

Water and air temperature readings in the summer index period were close to normal in 2012 in both sampled basins, and neither air nor water temperature readings has exhibited any long-term change. It is not likely that any of the small changes in air or water temperature readings are indicative of local climate change 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. Phycocyanin readings have been well below the levels indicating susceptibility for harmful algal blooms (HABs) in the open water and within shoreline blooms in both basins. This is consistent with the fluoroprobe screening results from 2012 and 2013 indicating low levels of blue green algae in nearly all samples. An analysis of algae samples indicate microcystin and anatoxin readings below the levels needed to support safe swimming and potable water use in both basins.

Lake Condition Summary-North Basin

Category	Indicator	Min	87-13 Avg	Max	2013 Avg	Classification	2013 Change?	Long-term Change?
Eutrophication	Water Clarity	2.25	4.03	10.00	3.28	Mesotrophic	Within Normal Range	No Change
Indicators	Chlorophyll a	0.05	2.97	12.40		Mesotrophic	Not sampled	Decreasing Slightly
	Total Phosphorus	0.001	0.008	0.024	0.011	Oligotrophic	Higher than Normal	Increasing Significantly
Potable Water Indicators	Hypolimnetic Ammonia	0.01	0.03	0.11	0.02	Close to Surface NH4 Readings	Lower Than Normal	Not known
	Hypolimnetic Arsenic	0.34	1.32	4.00		Elevated Deepwater As	Higher than Normal	Not known
	Hypolimnetic Iron	0.01	0.70	3.01		Elevated Deepwater Fe	Higher than Normal	Not known
	Hypolimnetic Manganese	0.01	0.11	0.28		Low Manganese Levels	Higher than Normal	Not known
Limnological Indicators	Hypolimnetic Phosphorus	0.000	0.013	0.074	0.044	Close to Surface TP Readings	Higher than Normal	Not known
	Nitrate + Nitrite	0.00	0.04	0.30	0.02	Low NOx	Lower Than Normal	No Change
	Ammonia	0.00	0.03	0.20	0.01	Low Ammonia	Within Normal Range	No Change
	Total Nitrogen	0.07	0.31	1.34	0.33	Low Total Nitrogen	Within Normal Range	No Change
	рН	6.19	7.47	9.07	7.72	Circumneutral	Higher than Normal	No Change
	Specific Conductance	26	69	104	73	Softwater	Within Normal Range	No Change
	True Color	3	19	52	28	Intermediate Color	Higher than Normal	Increasing Slightly
	Calcium	2.9	6.2	11.6		Not Susceptible to Zebra Mussels		No Change
Lake	WQ Assessment	1	1.3	3	1.0	Crystal Clear	Within Normal Range	No Change
Perception	Aquatic Plant Coverage	1	1.2	2	1.0	Plants Not Visible	Within Normal Range	No Change
	Recreational Assessment	1	1.8	5	1.5	Excellent	Within Normal Range	No Change
Biological Condition	Phytoplankton					Open water-low blue green algae biomass	Not known	Not known
	Macrophytes					Excellent quality of 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					Two story fishery	Not known	Not known
	Invasive Species					rudd, bluntnose minnow, chain pickerel, fallfish, gizzard shad, northern pike, rainbow smelt, smallmouth bass, Eurasian watermilfoil, curly-leafed pondweed	Not known	Not known
Local Climate	Air Temperature	10	22.1	38	26.8		Within Normal Range	No Change
Change	Water Temperature	11	21.6	33	23.1		Within Normal Range	No Change

Category	Indicator	Min	87-13	Max	2013	Classification	2013 Change?	Long-term
			Avg		Avg			Change?
Harmful Algal Blooms	Open Water Phycocyanin	-1	10	61	4	No readings indicate high risk of BGA	Not known	Not known
	Open Water FP Chl.a	0	2	14	1	Few readings indicate high algae levels	Not known	Not known
	Open Water FP BG Chl.a	0	1	11	0	Few readings indicate high BGA levels	Not known	Not known
	Open Water Microcystis	<dl< td=""><td>0.2</td><td>0.5</td><td><0.30</td><td>Mostly undetectable open water MC-LR</td><td>Not known</td><td>Not known</td></dl<>	0.2	0.5	<0.30	Mostly undetectable open water MC-LR	Not known	Not known
	Open Water Anatoxin a	<dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td><dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<>	<dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<>	Open water Anatoxin-a not detectable	Not known	Not known
	Shoreline Phycocyanin					No shoreline blooms sampled for PC	Not known	Not known
	Shoreline FP Chl.a					No shoreline blooms sampled for FP	Not known	Not known
	Shoreline FP BG Chl.a					No shoreline blooms sampled for FP	Not known	Not known
	Shoreline Microcystis					No shoreline bloom MC-LR data	Not known	Not known
	Shoreline Anatoxin a	<dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< td=""><td>Shoreline bloom Anatoxin- a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td><dl< td=""><td>Shoreline bloom Anatoxin- a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td>Shoreline bloom Anatoxin- a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<>	<dl< td=""><td>Shoreline bloom Anatoxin- a not detectable</td><td>Not known</td><td>Not known</td></dl<>	Shoreline bloom Anatoxin- a not detectable	Not known	Not known

Lake Condition Summary-South Basin

Category	Indicator	Min	87-13 Avg	Max	2013 Avg	Classification	2013 Change?	Long-term Change?
Eutrophication	Water Clarity	2.30	4.16	9.00	3.48	Mesotrophic	Within Normal Range	No Change
Indicators	Chlorophyll a	0.05	1.47	6.50	2.60	Oligotrophic	Higher than Normal	No Change
	Total Phosphorus	0.003	0.009	0.026	0.007	Oligotrophic	Within Normal Range	No Change
Potable Water Indicators	Hypolimnetic Ammonia	0.00	0.06	0.67	0.02	Close to Surface NH4 Readings	Lower Than Normal	Not known
	Hypolimnetic Arsenic	0.34	0.68	1.00		Low Deepwater Arsenic Levels	Higher than Normal	Not known
	Hypolimnetic Iron	0.01	1.17	5.32		Highly Elevated Deepwater Fe	Higher than Normal	Not known
	Hypolimnetic Manganese	0.01	0.13	0.68		Low Manganese Levels	Higher than Normal	Not known
Limnological Indicators	Hypolimnetic Phosphorus	0.002	0.010	0.059	0.006	Close to Surface TP Readings	Lower Than Normal	Not known
	Nitrate + Nitrite	0.00	0.04	0.17	0.01	Low NOx	Lower Than Normal	No Change
	Ammonia	0.00	0.03	0.14	0.01	Low Ammonia	Lower Than Normal	No Change
	Total Nitrogen	0.09	0.28	1.04	0.28	Low Total Nitrogen	Within Normal Range	Increasing Significantly
	рH	6.25	7.51	8.77	8.01	Alkaline	Higher than Normal	Increasing Significantly
	Specific Conductance	30	68	96	52	Softwater	Lower Than Normal	No Change
	True Color	6	21	50	24	Intermediate Color	Within Normal Range	No Change
	Calcium	4.2	6.0	8.4		Not Susceptible to Zebra Mussels		No Change
Lake Perception	WQ Assessment	1	1.5	3	2.0	Crystal Clear	Less Favorable than Normal	No Change
	Aquatic Plant Coverage	1	1.7	3	2.7	Subsurface Plant Growth	More Significant than Normal	Slightly Increasing
	Recreational Assessment	1	1.7	4	2.0	Excellent	Within Normal Range	No Change
Biological Condition	Phytoplankton			ļ		Open water-low blue green algae biomass	Not known	Not known
	Macrophytes			ļ		Excellent quality of 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					Two story fishery	Not known	Not known
	Invasive Species					rudd, bluntnose minnow, chain pickerel, fallfish, gizzard shad, northern pike, rainbow smelt, smallmouth bass, Eurasian watermilfoil, curly-leafed pondweed	Not known	Not known
Local Climate	Air Temperature	6	21.2	37	24.5		Within Normal Range	No Change
Change	Water Temperature	12	20.5	29	19.7		Within Normal Range	No Change

Category	Indicator	Min	87-13	Max	2013	Classification	2013 Change?	Long-term
			Avg		Avg			Change?
Harmful Algal Blooms	Open Water Phycocyanin	0	12	57	4	No readings indicate high risk of BGA	Not known	Not known
	Open Water FP Chl.a	1	2	3	2	No readings indicate high algae levels	Not known	Not known
	Open Water FP BG Chl.a	0	1	2	0	No readings indicate high BGA levels	Not known	Not known
	Open Water Microcystis	<dl< td=""><td>0.1</td><td>0.0</td><td><0.30</td><td>Mostly undetectable open water MC-LR</td><td>Not known</td><td>Not known</td></dl<>	0.1	0.0	<0.30	Mostly undetectable open water MC-LR	Not known	Not known
	Open Water Anatoxin a	<dl< td=""><td><dl< td=""><td><dl< td=""><td><dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td><dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<></td></dl<>	<dl< td=""><td><dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<></td></dl<>	<dl< td=""><td>Open water Anatoxin-a not detectable</td><td>Not known</td><td>Not known</td></dl<>	Open water Anatoxin-a not detectable	Not known	Not known
	Shoreline Phycocyanin					No shoreline blooms sampled for PC	Not known	Not known
	Shoreline FP Chl.a					No shoreline blooms sampled for FP	Not known	Not known
	Shoreline FP BG Chl.a					No shoreline blooms sampled for FP	Not known	Not known
	Shoreline Microcystis					No shoreline bloom MC- LR data	Not known	Not known
	Shoreline Anatoxin a					No shoreline bloom anatoxin data	Not known	Not known

Evaluation of Lake Condition Impacts to Lake Uses

The 2006 NYSDEC Priority Waterbody Listings (PWL) for the Upper Hudson River drainage basin indicated that *fish consumption* is *impaired* in Schroon Lake due to PCBs and mercury. The PWL listing for Schroon Lake is shown in Appendix C.

Potable Water (Drinking Water)

The CSLAP dataset at Schroon 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 limited data related to algae levels indicate that the lake may presently support potable water usage, although deepwater intakes in both basins may be *threatened* by elevated iron levels.

Contact Recreation (Swimming)

The CSLAP dataset at Schroon Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggests that swimming and contact recreation should be fully supported. Additional information about bacterial levels is needed to evaluate the safety of the water for swimming.

Non-Contact Recreation (Boating and Fishing)

The CSLAP dataset on Schroon Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that non-contact recreation should be fully supported, although this use may ultimately be *threatened* by the presence of Eurasian watermilfoil.

Aquatic Life

The CSLAP dataset on Schroon Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aquatic life may be *threatened* by deepwater hypoxia in the south basin, and by the presence of exotic plants and fish. Additional data are needed to evaluate the food and habitat conditions for aquatic organisms in the lake.

Aesthetics

The CSLAP dataset on Schroon Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aesthetics should be fully supported.

Fish Consumption

There are several fish consumption advisories for Schroon Lake—the NYS Department of Health recommends no more than one meal per month for lake trout greater than 27" in length, yellow perch greater than 13 inches in length, or smallmouth bass of any size.

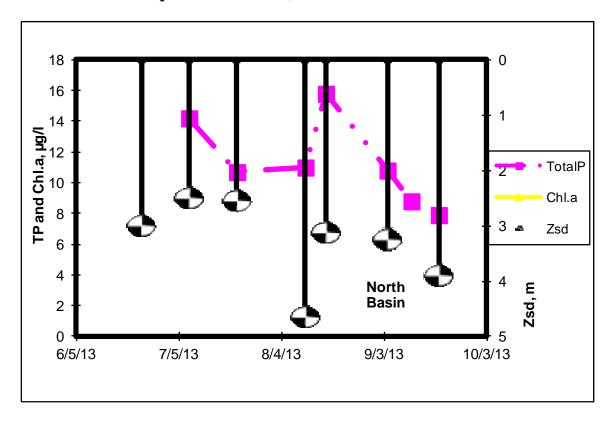
Additional Comments and Recommendations

Additional information might be needed to determine if the Eurasian watermilfoil populations in the lake have significantly affected the biological integrity of the lake. Lake residents should report and avoid direct exposure to any shoreline blooms.

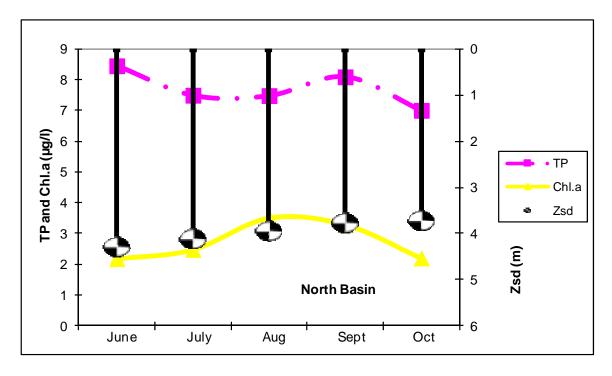
Aquatic Plant IDs-2013

None submitted for identification in 2013.

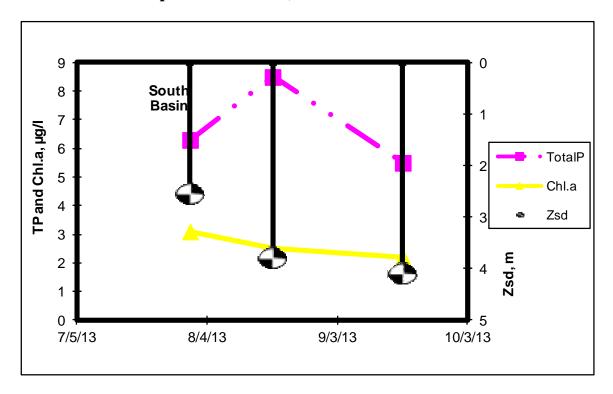
Time Series: Trophic Indicators, 2013- North Basin



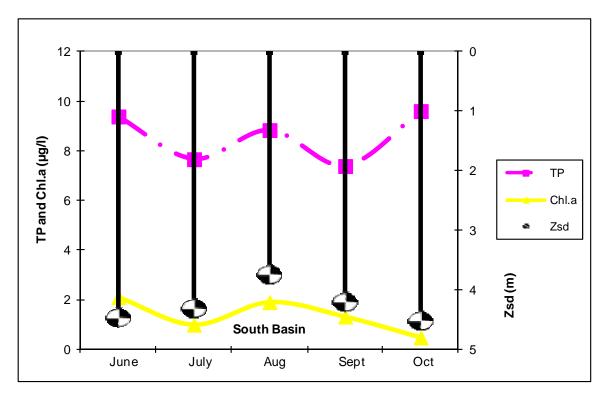
Time Series: Trophic Indicators, Typical Year (1987-2013)-North Basin



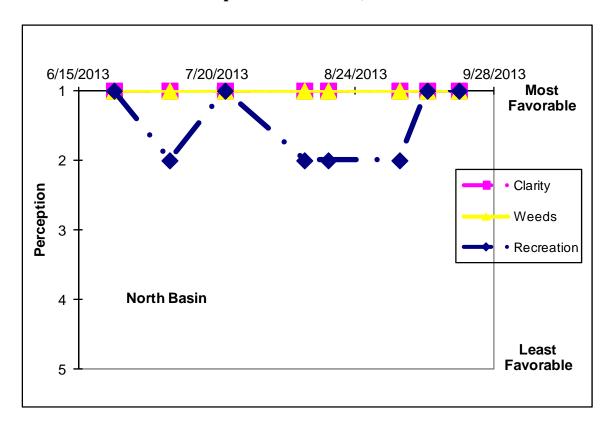
Time Series: Trophic Indicators, 2013- South Basin



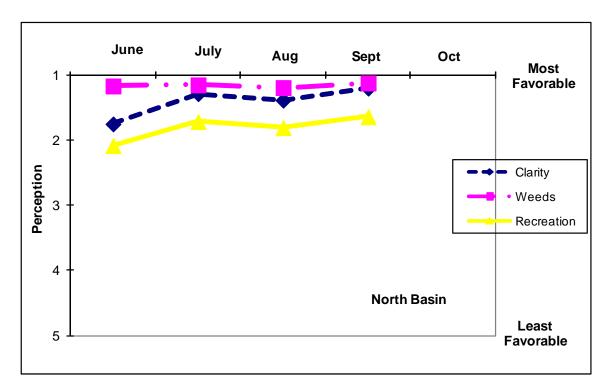
Time Series: Trophic Indicators, Typical Year (1987-2013)- South Basin



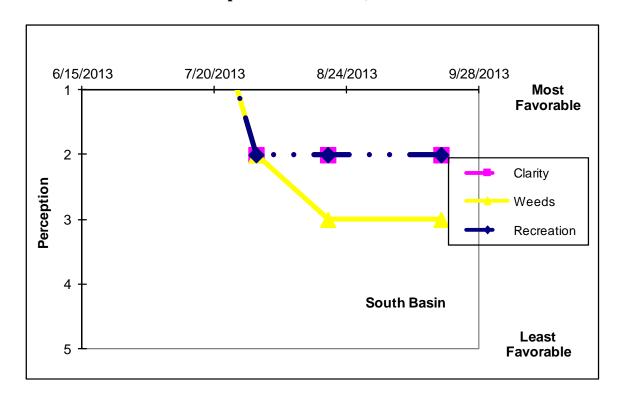
Time Series: Lake Perception Indicators, 2013-North Basin



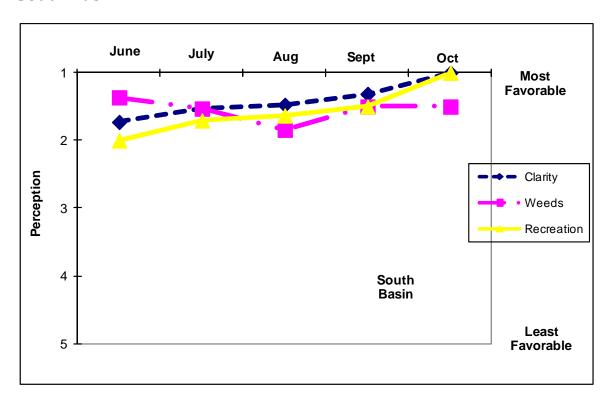
Time Series: Lake Perception Indicators, Typical Year (1987-2013)-North Basin



Time Series: Lake Perception Indicators, 2013-South Basin



Time Series: Lake Perception Indicators, Typical Year (2003-2013)-South Basin



Appendix A- CSLAP Water Quality Sampling Results for Schroon Lake

LNum	4.70 5.80
34 Schroon L-N 7/1/1987 20.0 3.00 1.5 0.006 0.15 16 7.58 60	
34 Schroon L-N 7/8/1987 21.0 4.00 1.5 0.006 0.12 14 7.09 60 34 Schroon L-N 7/13/1987 21.0 3.00 1.5 0.005 0.10 16 6.91 61 34 Schroon L-N 7/21/1987 20.0 4.00 1.5 0.001 0.09 16 7.23 62 34 Schroon L-N 7/21/1987 20.0 4.00 1.5 0.001 0.09 16 7.23 62 34 Schroon L-N 8/21/1987 20.0 4.00 1.5 0.009 0.06 15 7.51 62 34 Schroon L-N 8/4/1987 20.0 4.00 1.5 0.005 0.06 17 7.87 64 34 Schroon L-N 8/4/1987 45.0 4.15 1.5 0.009 0.03 111 7.02 63 34 Schroon L-N 8/1/1987 45.0 4.15 1.5 0.009 0.03 111 7.02 63 34 Schroon L-N 8/14/1987 23.0 3.35 1.5 0.007 0.03 177 7.26 64 34 Schroon L-N 8/14/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 17 7.26 66 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 17 7.52 66 34 Schroon L-N 9/91/987 24.0 3.83 1.5 0.006 0.02 9 7.36 62 34 Schroon L-N 9/91/987 23.0 5.35 1.5 0.006 0.02 9 7.36 62 34 Schroon L-N 9/14/1987 23.0 5.35 1.5 0.006 0.02 9 7.36 62 34 Schroon L-N 9/14/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 35 Schroon L-N 8/17/1988 25.0 5.25 1.5 0.006 0.02 9 7.76 63 36 Schroon L-N 7/6/1988 25.0 5.25 1.5 0.004 0.01 1 15 7.75 80 37 Schroon L-N 8/16/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 38 Schroon L-N 8/16/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 39 Schroon L-N 8/16/1988 25.0 5.05 1.5 0.006 0.02 77 7.79 70 30 Schroon L-N 8/16/1988 25.0 5.45 1.5 0.006 0.02 77 7.79 70 31 Schroon L-N 8/16/1988 25.0 5.45 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 8/16/1988 25.0 5.45 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 8/16/1988 13.0 4.50 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 8/16/1988 13.0 4.50 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.45 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.55 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.55 1.5 0.006 0.00 70 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.55 1.5 0.006 0.00 70 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.55 1.5 0.006 0.00 70 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.55 1.5 0.006 0.00 70 77 7.79 70 34 Schroon L-N 8/16/1989 25.0 5.55 1.5 0.006 0.00 70 77 77	
34 Schroon L-N 7/13/1987 21.0 3.00 1.5 0.005 0.10 16 6.91 61 34 Schroon L-N 7/21/1987 20.0 4.00 1.5 0.009 0.06 15 7.23 62 34 Schroon L-N 7/27/1987 20.0 4.00 1.5 0.009 0.06 15 7.51 62 34 Schroon L-N 8/4/1987 20.0 4.00 1.5 0.005 0.06 17 7.87 64 34 Schroon L-N 8/4/1987 20.0 4.00 1.5 0.005 0.06 17 7.87 64 34 Schroon L-N 8/14/1987 23.7 3.50 1.5 0.005 0.03 11 7.22 63 34 Schroon L-N 8/14/1987 23.7 3.50 1.5 0.007 0.03 17 7.26 64 34 Schroon L-N 8/14/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/14/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.01 15 7.75 80 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 6 7.92 70 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 6 7.92 70 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.00 77 7.79 70 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.00 77 7.79 70 34 Schroon L-N 8/26/1988 18.0 5.75 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.006 0.02 77 7.79 70 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.006 0.00 77 7.79 70 70 34 Schroon L-N 9/26/1989 18.3 3.10 1.5 0.006 0.00 17 7.72 72 72 72 72 72 72 72 72 72 72 72 72 7	4.40
34 Schroon L-N 7/21/1987 20.0 4.00 1.5 0.001 0.09 16 7.23 62 34 Schroon L-N 7/27/1987 20.0 4.00 1.5 0.009 0.06 15 7.51 62 34 Schroon L-N 8/4/1987 20.0 4.00 1.5 0.005 0.06 17 7.87 64 34 Schroon L-N 8/14/1987 23.0 3.5 1.5 0.007 0.03 11 7.02 63 34 Schroon L-N 8/14/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/9/1987 24.0 3.83 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.005	4.00
34 Schroon L-N 7/27/1987 20.0 4.00 1.5 0.009 0.06 15 7.51 62 34 Schroon L-N 8/4/1987 20.0 4.00 1.5 0.005 0.06 17 7.87 64 34 Schroon L-N 8/7/1987 45.0 4.15 1.5 0.009 0.03 11 7.02 63 34 Schroon L-N 8/17/1987 23.0 3.55 1.5 0.007 0.03 17 7.26 64 34 Schroon L-N 8/17/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/30/1987 24.0 3.83 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003	7.60
34 Schroon L-N 8/4/1987 20.0 4.00 1.5 0.005 0.06 17 7.87 64 34 Schroon L-N 8/7/1987 45.0 4.15 1.5 0.009 0.03 11 7.02 63 34 Schroon L-N 8/14/1987 23.7 3.50 1.5 0.007 0.03 17 7.26 64 34 Schroon L-N 8/17/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 9/9/1987 24.0 3.83 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/9/1987 24.0 3.83 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/9/1987 23.0 5.10 1.5 0.001 <	5.60
34 Schroon L-N 8/7/1987 45.0 4.15 1.5 0.009 0.03 11 7.02 63 34 Schroon L-N 8/4/1987 23.7 3.50 1.5 0.007 0.03 17 7.26 64 34 Schroon L-N 8/24/1987 23.0 3.35 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/9/1987 24.0 3.83 1.5 0.006 0.08 8 7.48 71 34 Schroon L-N 9/14/1987 23.0 5.15 1.5 0.006 0.08 8 7.48 71 34 Schroon L-N 9/2/1987 23.0 1.5 0.001 0.01 <	6.20
34 Schroon L-N 8/14/1987 23.7 3.50 1.5 0.007 0.03 17 7.26 64 34 Schroon L-N 8/17/1987 23.0 3.35 1.5 0.005 0.02 12 7.63 64 34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/9/1987 24.0 3.83 1.5 0.006 0.08 8 7.48 7.1 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 11 7.34 68 34 Schroon L-N 7/6/1988 25.0 5.25 1.5 0.004	8.70
34 Schroon L-N 8/24/1987 23.0 3.15 1.5 0.005 0.02 10 7.52 66 34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/9/1987 23.0 3.83 1.5 0.006 0.08 8 7.48 71 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 9/9/21/987 23.0 5.10 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 7/6/1988 25.0 5.25 1.5 0.004 0.01 15 7.75 80 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/16/1988 25.0 5.05 1.5 0.001 <	6.10
34 Schroon L-N 8/30/1987 25.0 4.25 1.5 0.005 0.02 9 7.36 62 34 Schroon L-N 9/9/1987 24.0 3.83 1.5 0.006 0.08 8 7.48 71 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 7/6/1988 22.5 4.30 1.5 0.004 0.01 15 7.75 80 34 Schroon L-N 7/20/1988 25.0 5.05 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/16/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/31/1988 25.0 5.25 1.5 0.004 <	4.70
34 Schroon L-N 9/9/1987 24.0 3.83 1.5 0.006 0.08 8 7.48 71 34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 7/6/1988 22.5 4.30 1.5 0.004 0.01 15 7.75 80 34 Schroon L-N 7/20/1988 25.0 5.25 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.08 5 7.92 70 34 Schroon L-N 8/31/1988 25.0 5.20 1.5 0.001 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.006 <t< td=""><td>10.10</td></t<>	10.10
34 Schroon L-N 9/14/1987 23.5 5.35 1.5 0.003 0.01 6 7.17 69 34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 7/6/1988 22.5 4.30 1.5 0.004 0.11 15 7.75 80 34 Schroon L-N 7/20/1988 25.0 5.25 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/19/1988 25.0 5.05 1.5 0.001 0.02 7 7.69 65 34 Schroon L-N 8/31/1988 25.0 5.45 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 <	
34 Schroon L-N 9/22/1987 23.0 5.10 1.5 0.007 0.03 11 7.34 68 34 Schroon L-N 7/6/1988 22.5 4.30 1.5 0.004 0.11 15 7.75 80 34 Schroon L-N 7/20/1988 25.0 5.25 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/16/1988 25.0 4.50 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/11/1988 25.0 5.20 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.005 0.02	9.70
34 Schroon L-N 7/6/1988 22.5 4.30 1.5 0.004 0.11 15 7.75 80 34 Schroon L-N 7/20/1988 25.0 5.25 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/16/1988 25.0 4.50 1.5 0.001 0.02 7 7.69 65 34 Schroon L-N 8/31/1988 25.0 5.20 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 7/5/1989 23.0 4.90 1.5 0.006 <td< td=""><td>5.30</td></td<>	5.30
34 Schroon L-N 7/20/1988 25.0 5.25 1.5 0.004 0.08 6 7.93 76 34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/16/1988 25.0 4.50 1.5 0.001 0.02 7 7.69 65 34 Schroon L-N 8/31/1988 25.0 5.20 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 <t< td=""><td>3.50</td></t<>	3.50
34 Schroon L-N 8/4/1988 25.0 5.05 1.5 0.004 0.05 5 7.92 70 34 Schroon L-N 8/16/1988 25.0 4.50 1.5 0.001 0.02 7 7.69 65 34 Schroon L-N 8/31/1988 25.0 5.20 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 24.0 4.60 1.5 0.003 <	3.63
34 Schroon L-N 8/16/1988 25.0 4.50 1.5 0.001 0.02 7 7.69 65 34 Schroon L-N 8/31/1988 25.0 5.20 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005	2.15
34 Schroon L-N 8/31/1988 25.0 5.20 1.5 0.006 0.02 7 7.79 70 34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003	2.15
34 Schroon L-N 9/12/1988 25.0 5.45 1.5 0.005 0.02 7 7.72 72 34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004	2.96
34 Schroon L-N 9/26/1988 18.0 5.75 1.5 0.003 0.02 7 7.58 71 34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/21/1989 25.0 3.55 1.5 0.004	2.15
34 Schroon L-N 6/27/1989 23.0 4.90 1.5 0.006 0.08 15 7.68 64 34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006	3.77
34 Schroon L-N 7/5/1989 24.0 4.60 1.5 0.003 0.07 17 7.77 64 34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/25/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009	3.03
34 Schroon L-N 7/17/1989 20.0 4.25 1.5 0.008 0.06 17 7.42 64 34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006 0.01 16 7.62 67 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004	2.64
34 Schroon L-N 7/31/1989 18.3 4.85 1.5 0.005 0.03 12 7.58 71 34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006 0.01 16 7.62 67 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004	2.55
34 Schroon L-N 8/14/1989 24.4 3.65 1.5 0.003 0.01 13 7.41 69 34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006 0.01 16 7.62 67 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	2.11
34 Schroon L-N 8/29/1989 18.3 3.10 1.5 0.004 0.01 10 7.58 70 34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006 0.01 16 7.62 67 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	4.31
34 Schroon L-N 9/11/1989 25.0 3.55 1.5 0.007 0.01 9 7.44 71 34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006 0.01 16 7.62 67 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	4.23
34 Schroon L-N 9/25/1989 25.0 3.75 1.5 0.006 0.01 16 7.62 67 34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	4.03 3.70
34 Schroon L-N 7/2/1990 24.0 4.20 1.5 0.009 0.10 15 7.37 62 34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	4.33
34 Schroon L-N 7/19/1990 25.0 4.70 1.5 0.004 0.06 15 7.61 65 34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	4.12
34 Schroon L-N 7/30/1990 25.0 5.10 1.5 0.004 0.06 14 70 34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	3.69
34 Schroon L-N 8/15/1990 25.0 4.00 1.5 0.005 0.04 16 7.70 64	0.69
	7.29
	2.56
34 Schroon L-N 9/17/1990 25.0 3.80 1.5 0.005 0.04 19 7.36 67	8.00
34 Schroon L-N 10/1/1990 25.0 4.95 1.5 0.005 0.08 18 6.73 66	2.81
34 Schroon L-N 7/9/1991 25.0 6.50 1.5 0.003 0.10 15 7.60 66	2.17
34 Schroon L-N 7/22/1991 25.0 5.72 1.5 0.005 0.07 10 7.04 88	1.89
34 Schroon L-N 8/6/1991 25.0 5.80 1.5 0.009 0.03 14 7.08 69	3.67
34 Schroon L-N 8/19/1991 20.0 4.30 1.5 0.005 0.01 9 7.65 69	4.42
34 Schroon L-N 9/3/1991 25.0 3.90 1.5 0.009 0.01 11 7.64 69	4.20
34 Schroon L-N 9/16/1991 25.0 3.70 1.5 0.010 0.01 9 7.60 69	3.11
34 Schroon L-N 7/20/1997 4.00 1.5 0.008 0.05 10 7.51 68	3.48
34 Schroon L-N 8/3/1997 9.3 5.05 1.5 0.004 0.02 9 7.53 69	3.03
34 Schroon L-N 9/8/1997 2.80 1.5 0.006 0.01 7 6.89 72	2.50
34 Schroon L-N 6/10/2002 43.6 3.05 1.0 0.10 0.02 1.01 14 7.25 73	0.95
34 Schroon L-N 6/25/2002 44.2 3.25 1.0 0.007 0.07 0.04 0.47 68.14 15 7.25 73	2.68
34 Schroon L-N 7/9/2002 44.3 4.10 1.0 0.007 0.06 0.07 0.32 45.20 15 7.27 77	1
34 Schroon L-N 7/23/2002 43.6 3.30 2.0 0.005 0.04 0.07 0.34 64.37 19 7.29 81	3.37
34 Schroon L-N 8/6/2002 42.6 8.50 1.0 0.002 0.03 0.06 0.47 235.76 11 7.56 86	1.79
34 Schroon L-N 8/20/2002 44.2 3.30 0.006 0.02 0.05 0.47 77.36 15 7.64 87	2.37
34 Schroon L-N 9/3/2002 43.9 3.50 0.005 0.02 0.01 0.31 60.94 12 7.43 82	3.03
34 Schroon L-N 9/17/2002 42.6 4.50 1.0 0.005 0.00 0.01 0.31 60.13 16 7.64 86	3.47
34 Schroon L-N 6/24/2003 44.2 3.45 1.0 0.08 0.02 0.19 22 7.28 82 6.2	
34 Schroon L-N 7/8/2003 42.7 4.15 1.0 0.006 0.06 0.03 0.21 36.65 12 7.34 84	1.15
34 Schroon L-N 7/22/2003 44.5 5.54 0.004 0.04 0.02 0.21 47.79 21 7.48 88	2.63
34 Schroon L-N 8/5/2003 43.0 2.75 1.0 0.007 0.00 0.03 0.24 32.27 17 7.25 84	4.61
34 Schroon L-N 8/19/2003 42.7 3.10 0.007 0.01 0.02 0.29 40.99 21 7.19 81 6.9	
34 Schroon L-N 9/2/2003 43.9 3.40 1.0 0.007 0.00 0.02 0.25 37.09 17 7.08 84	0.87
34 Schroon L-N 9/17/2003 44.0 3.60 1 0.005 0.01 0.02 0.07 12.15 13 7.25 88	2.36
34 Schroon L-N 9/30/2003 45.1 3.88 0.004 0.00 0.01 0.28 75.66 12 7.22 81	0.46
34 Schroon L-N 6/11/2004 6.75 0.011 0.07 0.02 0.19 17.30 22 6.32 79	2.36

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NО3	NHA	TDN	TN/TP	TColor	рН	Cond25	Ca	Chl.a
34	Schroon L-N	6/23/2004	44.2	10.00	1.0	0.003	0.05	0.02	0.31	108.66	19	6.29	81	Ca	3.92
34	Schroon L-N	7/7/2004	43.9	4.00		0.003		0.02		176.65	17	6.32			
34	Schroon L-N	7/1/2004	44.5	4.00	1.0	0.004	0.13	0.08	1.34	311.07	14	7.40	59 83		1.00 0.60
34	Schroon L-N	8/4/2004	44.5	4.05	1.0	0.004	0.02	0.02	0.31	102.98	17	8.29	91	9.1	3.70
34		8/18/2004	43.3	3.85	1.0	0.003	0.02	0.03	0.39	155.96	12	7.17	74	9.1	3.90
34	Schroon L-N	9/1/2004	44.8	3.40	1.0	0.003	0.01	0.01	0.34	36.74	12	7.02	61		2.30
34	Schroon L-N	9/1/2004	43.3	4.10	1.0	0.009	0.01	0.01	0.34	41.12	22	7.48	51		2.10
34	Schroon L-N	6/21/2005	46.0			0.003	0.02	0.03	0.38	13.21	35			5.1	4.17
34	Schroon L-N	7/5/2005	44.8	2.80	1.0 1.0	0.008	0.01	0.08	0.13	32.46	33	7.50 8.20	60 88	5.1	1.49
34	Schroon L-N	7/19/2005	44.8	3.10	1.0	0.008	0.03	0.04	0.17	12.20	18	7.10	70		4.11
34	Schroon L-N	8/2/2005 8/16/2005	44.0	2.85	1.0	0.011	0.03	0.01	0.35	9.63	25	7.02	83	2.9	5.51
34				2.65	1.0	0.013	0.03	0.01	0.34	12.17	35	6.76	72	2.9	2.84
34	Schroon L-N Schroon L-N	8/30/2005 9/13/2005	44.0	3.90	1.0	0.013	0.03	0.01	0.23	6.12 5.30	25 14	6.94	81 83		2.62 1.99
			45.0		1.0		0.01	0.01	0.18			7.40			
34		9/27/2005	45.1	4.45	1.0	0.018		0.20		15.22	3	7.25	104	F 0	1.67
34	Schroon L-N	6/16/2006	44.8	2.75	1.5	0.013	0.10	0.01	0.25	19.52	22	7.53	40	5.8	0.39
34	Schroon L-N	6/29/2006	44.2	2.60	1.0	0.014	0.04	0.00	0.57	45.05	21	6.96	62		2.65
34	Schroon L-N	7/27/2006	44.8	2.90	1.0	0.012	0.04	0.02	0.57	45.85	35	7.36	55		2.76
34	Schroon L-N	8/10/2006	44.2	2.70	1.0	0.012	0.03	0.04	0.67	55.69	26	7.53	48	0.0	3.41
34	Schroon L-N	8/24/2006	43.3	3.30	1.0	0.016	0.04	0.03	0.59	36.49	31	7.55	62	6.0	2.84
34	Schroon L-N	9/7/2006	44.2	3.70	1.0	0.009		0.02		47.64	10	8.25	59		2.51
34	Schroon L-N	9/20/2006	44.2	2.85	1.0	0.009	0.04	0.02	0.53	62.26	17	7.31	75		1.68
34	Schroon L-N	6/22/2008	33.0	4.00	1.5	0.008	0.04	0.02	0.15	41.95	20	7.38	53	4.0	0.10
34	Schroon L-N	7/5/2008	30.0	7.10	1.5	0.007		0.02	0.15	46.67		7.90	66		0.22
34	Schroon L-N	7/21/2008	31.0	5.35	1.5	0.008	0.03	0.01	0.23	62.66	13	7.95	53		0.10
34	Schroon L-N	8/1/2008	32.0	5.55	1.5	0.005	0.01	0.02	0.32	134.03	15	7.78	58		0.28
34		8/18/2008		4.35	1.5	0.008	0.00	0.01	0.17	49.10	20	8.10	56	5.9	0.80
34		8/29/2008	30.5	4.65	1.5	0.005	0.00	0.00	0.18	74.39	18	8.34	60		0.46
34	Schroon L-N	9/16/2008	33.5	4.95	1.5	0.007	0.03	0.00	0.17	51.68	26	7.91	66		0.46
34	Schroon L-N	9/25/2008	32.0	5.40	1.5	0.008	0.02	0.00	0.19	53.67	21	9.07	68		0.10
34	Schroon L-N	07/02/2009		2.75		0.008	0.06	0.02	0.13	35.25	35	6.19	49	6.1	0.10
34	Schroon L-N	07/20/2009		2.85		0.020	0.06	0.04	0.18	19.60	45	6.39	30		0.10
34	Schroon L-N	08/13/2009		2.90		0.008	0.06	0.02	0.16	46.86	52	7.23	58		0.10
34	Schroon L-N	08/22/2009		3.20		0.009	0.01	0.01	0.21	49.74	47	7.30	56		0.70
34	Schroon L-N	08/30/2009		3.05		0.006	0.01	0.01	0.14	49.05	38	7.40	26	5.1	6.90
34	Schroon L-N	09/03/2009		3.30		0.011	0.01	0.01	0.12	24.02	28	7.27	62		12.40
34	Schroon L-N	09/13/2009	44.5	3.50		0.024	0.01	0.01	0.14	12.64	40	7.58	35		
34	Schroon L-N	09/21/2009	50.3	3.90		0.013	0.02	0.02	0.32	53.74	34	7.38	44		0.30
34		5/25/2010	35.7	6.40	1.5	0.006	0.10	0.04			16	8.44	65	11.6	0.20
34	Schroon L-N	6/4/2010	37.4	5.38	1.5	0.008	0.07	0.03	0.19	54.13	10	7.61	70		0.20
34	Schroon L-N	7/13/2010	37.4	4.25	1.5	0.007	0.09	0.03		52.61	15	8.70	80		0.30
34	Schroon L-N	7/27/2010	36.6	5.40		0.019	0.04	0.04	0.23	26.72	11	8.66	55		0.40
34	Schroon L-N				1.5		0.10			52.22	8	7.56	41	6.4	0.30
34	Schroon L-N					0.009					6	6.93	89	0	3.50
34	Schroon L-N			2.50	1.5	0.009		0.02		57.69	46	6.82	82		1.60
34	Schroon L-N		40.0	3.23	1.0	0.003	0.07			69.26	31	7.29	84	6.2	0.05
34	Schroon L-N			4.10	1.0	0.006				103.20	17	6.41	72		2.90
34	Schroon L-N	8/3/2011		3.55	1.0	0.006		0.05		98.10	30	8.42	90		0.05
34	Schroon L-N			3.30	1.0	0.010		0.02		34.74	25	7.21	74		2.70
34		8/22/2011		3.10	1.5	0.018		0.02		32.18	24	8.59	75	6.1	3.80
34	Schroon L-N	9/7/2011		2.50	1.0	0.006	0.04			98.61	36	6.92	63	J. I	1.40
34		9/22/2011		2.65	1.5			0.02		139.96	32	7.20	53		3.80
34	Schroon L-N	9/28/2011		2.45	1.5	0.014			0.36	165.92	40	6.63	68		4.20
34	Schroon L-N	6/20/2012		3.85	1.5	0.003	0.07	0.04	0.35	75.18	22	6.83	72	5.9	4.20
34	Schroon L-N	7/5/2012		2.90	1.5	0.006	0.03	0.01	0.33	49.59	20	8.01	78	5.5	
		7/5/2012			1.5	0.006			0.13						—
34				4.30						39.46	19	8.65	78 76		-
34	Schroon L-N	8/10/2012		3.65	1.5	0.006		0.02		55.71	15	6.62	76	6.7	
34	Schroon L-N	8/19/2012		3.60	1.5	0.010	0.01	0.02	0.17	36.31	16	8.38	77	6.7	—
34		9/1/2012		3.55	1.5	0.011		0.02		49.19	13	8.79	90		
34	Schroon L-N	9/21/2012		3.55	1.5	0.009	0.01	0.02		53.69	18	7.35	79		—
34	Schroon L-N	9/26/2012		3.40	1.5	0.006	0.01	0.02		78.75	11	7.46	54		—
34		6/24/2013		3.00	1.5		0.05	0.01	0.39		32	7.18	59		—
34	Schroon L-N	7/8/2013	41.0	2.50	1.5	0.014					31	8.45	86		
34	Schroon L-N	7/22/2013		2.55	1.5	0.011	0.02	0.03		37.42	30	7.45	62		
34		8/11/2013		4.65	1.5	0.011			0.44	87.84	30	7.95	60		
34	Schroon L-N	8/17/2013	38.0	3.13	1.5	0.016	0.01	0.01	0.35	48.58	28	7.28	71		1

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	На	Cond25	Ca	Chl.a
34	Schroon L-N			3.25	1.5	0.011			0.30	61.88	25	8.00	95	<u> </u>	Ja
34	Schroon L-N	9/11/2013			1.5	0.009	0.01	0.01	0.29		26	7.91	77		
34	Schroon L-N			3.90	1.5	0.008			0.34	94.17	25	7.57	73		
34	Schroon L-N				30.5	0.005				94.25					
34	Schroon L-N				30.5	0.007									
34	Schroon L-N					0.006									
34	Schroon L-N									6806.88					
34	Schroon L-N				30.5	0.000				1377.45					
LNum	PName	Date	Zbot		Zsamp	Tot.P						NO2	Fe	Mn	As
34	Schroon L-N				30.5					114.58					
34	Schroon L-N				00.5	0.004									
34	Schroon L-N		42.6	4.50	30.5	0.004				114.01					
34	Schroon L-N Schroon L-N				30.5 30.5	0.004				58.33 95.49					
34	Schroon L-N				30.5	0.005				4.93					
34	Schroon L-N				43.0	0.003				73.96					
34	Schroon L-N				73.0	0.004				60.18					
34	Schroon L-N				30.5	0.004		0.01							
34	Schroon L-N				30.5	0.003				91.30					
34	Schroon L-N				30.5										
34	Schroon L-N				44.2	0.005				27.26					
34	Schroon L-N				30.5	0.004				22.04					
34	Schroon L-N	7/7/2004	43.9		30.5	0.005	0.23	0.02	0.98	207.35					
34	Schroon L-N	7/21/2004	44.5		30.5	0.005	0.28	0.11	0.72	154.26					
34	Schroon L-N					0.005	0.20	0.01	0.35	76.63					
34	Schroon L-N					0.003	0.18	0.01	0.42	132.85					
34	Schroon L-N					0.005									
34	Schroon L-N		43.3		30.5	0.006	0.03	0.04	0.33	59.04					
34	Schroon L-N				30.5	0.010									
34	Schroon L-N				25.0	0.014									
34	Schroon L-N				25.0	0.036									
34	Schroon L-N				25.0	0.028									
34	Schroon L-N				25.0	0.038									
34	Schroon L-N				25.0	0.034									
34	Schroon L-N				30.5	0.007									
34	Schroon L-N Schroon L-N				30.5 30.5	0.011									
34	Schroon L-N				30.5	0.010									
34	Schroon L-N				30.5	0.013									
34	Schroon L-N				30.5	0.003									
34	Schroon L-N				30.5	0.004									
34	Schroon L-N				33.0	0.059									
34	Schroon L-N				30.0	0.005									
34	Schroon L-N					0.005									
34	Schroon L-N	8/1/2008	32.0		30.5	0.003									
34	Schroon L-N				31.0	0.005									
34	Schroon L-N				30.5	0.004									
34	Schroon L-N				30.5	0.002									
34	Schroon L-N				30.0	0.005									
34	Schroon L-N				40.0	0.010		0.05							
34	Schroon L-N				45.0										
34	Schroon L-N				39.0	0.005		0.02							
34	Schroon L-N				43.0	0.007		0.0:						0.1-	
34	Schroon L-N				46.0	0.008		0.01					0.10	U.10	1.70
34	Schroon L-N				41.5	0.057		0.04					0.00	0.04	0.04
34	Schroon L-N				42.0	0.043		0.04				-	2.60	0.24	0.34
34	Schroon L-N				43.0 35.0	0.031		0.04				-	0.03		
34	Schroon L-N Schroon L-N				35.0	0.008		0.04					0.03		
34	Schroon L-N				35.0	0.014		0.04				-	0.03		
34	Schroon L-N				42.0	U.UZ I		0.03		1			0.03		1.20
34	Schroon L-N			3.23	39.0	0.007		0.02					0.21	0.01	1.20
34	Schroon L-N		40.0	3.55	42.0	0.007		0.02						0.01	
34	Schroon L-N			3.10	43.5	0.006		0.03							0.50
34	Schroon L-N			2.65	48.0	0.007		0.03						0.01	4.00
34	Schroon L-N				46.0	0.009		0.01							
<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · - · - · -		·									1		

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP		NO2	Fe	Mn	As
34	Schroon L-N	7/5/2012			50.0								0.60	0.02	
34	Schroon L-N	7/20/2012			42.0	0.025		0.03							
34	Schroon L-N	8/10/2012			42.0								0.93	0.13	
34	Schroon L-N	8/19/2012			42.0										
34	Schroon L-N	9/1/2012			46.0								3.01	0.28	0.50
34	Schroon L-N	9/21/2012			44.0	0.015		0.02							
34	Schroon L-N	9/26/2012			43.0								1.12	0.27	1.00
34	Schroon L-N	6/24/2013			42.0	0.016		0.02							
34	Schroon L-N	7/8/2013			41.0										
34	Schroon L-N	7/22/2013			46.0	0.035		0.02							
34	Schroon L-N	8/11/2013			43.0										
34	Schroon L-N	8/17/2013			3.8	0.074		0.02							
34	Schroon L-N	9/4/2013			45.0										
34	Schroon L-N	9/11/2013			42.0	0.053		0.01		•					_
34	Schroon L-N	9/19/2013		·	44.0	·					·				

														_	1
Num	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	рН	Cond25	Ca	Chl.a
34.1	Schroon L-S	6/24/2003	35.7	3.95	1.0	0.004	0.15	0.02	0.17	41.00	16	7.31	72	8.4	0.49
34.1	Schroon L-S	7/8/2003	36.6	4.85	1.0	0.004	0.07	0.01	0.32	78.09	11	7.38	74		1.16
34.1	Schroon L-S	7/22/2003	34.0	6.14		0.004	0.05	0.03	0.28	73.80	15	7.44	77		2.05
34.1	Schroon L-S	8/5/2003	34.0	3.95	1.0	0.004	0.00	0.02	0.28	64.14	17	7.15	78		3.15
34.1	Schroon L-S	8/19/2003	36.6	3.30	1.0	0.004	0.00	0.01	0.23	62.40	11	7.23	79	6.7	2.83
34.1	Schroon L-S	9/2/2003	32.6	4.60	1.0	0.004	0.00	0.01	0.16	40.20	17	7.24	81		1.96
34.1	Schroon L-S	9/17/2003	35.0	4.95	1.0	0.004	0.00	0.01	0.11	27.86	13	7.04	85		2.21
34.1	Schroon L-S	9/30/2003	35.0	2.83	1.5	0.006	0.02	0.01	0.29	47.41	17	6.97	86		2.22
34.1	Schroon L-S	6/11/2004		5.00		0.006	0.09	0.02	0.38	62.83	22	6.26	73		1.22
34.1	Schroon L-S	6/23/2004	34.7	9.00	1.0	0.004	0.05	0.01	0.29	80.38	16	6.25	72		2.09
34.1	Schroon L-S	7/7/2004	34.4	4.50	1.0	0.003	0.09	0.03	1.04	301.24	16	6.76	74		0.50
34.1	Schroon L-S	7/21/2004	34.5	4.00		0.005	0.05	0.07	0.36	77.23	13	7.54	76		0.40
34.1	Schroon L-S	8/4/2004	35.1	3.70	1.0	0.005	0.02	0.02	0.23	45.52	17	7.77	85		3.30
34.1	Schroon L-S	8/18/2004	36.0	2.90	1.0	0.003	0.02	0.01	0.35	138.23	14	7.20	63		2.70
34.1	Schroon L-S	9/1/2004	36.0	4.10	1.0	0.003	0.03	0.01	0.38	124.89		7.02	61		2.60
34.1	Schroon L-S	9/14/2004	36.0	5.00	1.0	0.006	0.03	0.03	0.34	61.04	18	6.64	64		1.20
34.1	Schroon L-S	6/21/2005	36.0	3.00	1.0	0.006	0.01	0.08	0.33	53.51	28	8.00	65	5.9	2.30
34.1	Schroon L-S	7/5/2005	25.0	2.80	1.0	0.005	0.02	0.06	0.25	45.84	23	7.80	64		1.23
34.1	Schroon L-S	7/19/2005	34.1	3.40	1.0	0.014	0.01	0.05	0.17	12.12	15	7.29	72		2.80
34.1	Schroon L-S	8/2/2005	34.0	3.15	1.0	0.014	0.04	0.02	0.31	21.91	39	7.02	76		4.85
34.1	Schroon L-S	8/16/2005	35.0	3.10	1.0	0.019	0.03	0.02	0.29	15.81	40	6.83	72	6.3	2.12
34.1	Schroon L-S	8/30/2005	34.0	4.48	1.0	0.021	0.01	0.01	0.19	8.92	20	7.31	90		2.52
34.1	Schroon L-S	9/13/2005	33.0	3.25	1.0	0.019	0.01	0.01	0.17	8.83	14	7.30	73		2.18
34.1	Schroon L-S	9/27/2005	34.1	4.10	1.0	0.010	0.02	0.03	0.15	15.33	16	7.06	82		1.17
34.1	Schroon L-S	6/16/2006	34.8	3.45	1.0	0.011	0.10	0.01	0.27	24.29	13	7.27	48	5.0	2.09
34.1	Schroon L-S	6/28/2006	36.0	3.25	1.0	0.010	0.08	0.03	0.41	41.11	18	7.75	60		2.79
34.1	Schroon L-S	7/27/2006	34.1	3.09	1.0	0.011	0.03	0.02	0.50	46.49	37	8.40	37		3.65
34.1	Schroon L-S	8/10/2006	35.1	3.00	1.0	0.011	0.04	0.02	0.62	59.20	28	7.81	66		3.91
34.1	Schroon L-S	8/24/2006	36.0	3.15	1.0	0.009	0.05	0.03	0.66	77.15	17	7.55	74	5.7	0.41
34.1	Schroon L-S	9/7/2006	36.0	3.15	1.0	0.005	0.03	0.03	0.51	103.52	11	7.60	60		2.67
34.1	Schroon L-S	9/20/2006	36.0	3.00	1.0	0.010	0.04	0.09	0.46	45.87	13	7.86	73	0.0	1.56
34.1	Schroon L-S	6/22/2008	33.0	3.90	1.5	0.026	0.04	0.01	0.25	21.11	21	6.98	58	6.0	0.71
34.1	Schroon L-S	7/23/2008	43.0	4.45	1.5	0.004	0.04	0.00	0.07	444.00	15	8.24	58		0.10
34.1	Schroon L-S	8/18/2008	33.0	2.30	1.5	0.005	0.01	0.00	0.27	114.69	00	7.76	61		0.10
34.1	Schroon L-S	8/27/2008	33.0	2.85		0.007	0.01	0.00	0.17	56.77	26	7.88	66	4.0	0.10
34.1	Schroon L-S Schroon L-S	9/15/2008	33.0	4.40		0.004	0.02	0.02	0.20	110.27 77.22	19 20	7.65 7.52	69 65	4.3	0.10
34.1	Schroon L-S	9/20/2008	44.0	4.40		0.005	0.02	0.01	0.20	86.66	19	7.74	77		0.10
	Schroon L-S		44.0	5.30	1.5						17				
34.1		10/7/2008	25.0		1.5	0.004	0.03	0.01	0.17	95.26		8.30	79	5.4	0.10
34.1		06/30/2009		4.55	1.5	0.009	0.04	0.01	0.09	22.00	36	7.23	60	5.4	0.29
34.1		07/10/2009 07/19/2009	37.0	3.36 4.40	1.5 1.5	0.012	0.03	0.01	0.22	41.04 30.00	50 32	7.95	53		0.48
34.1		07/19/2009 08/04/2009		4.40	1.5	0.009	0.04	0.03	0.12	40.00	32	7.56 7.44	50 58		0.33
34.1		08/04/2009 08/21/2009		3.75	1.5	0.007	0.02	0.02	0.12	59.13	31	7.44	54	5.8	0.32
34.1		08/21/2009		3.85	1.5	0.005	0.01	0.01	0.13	53.78	27	8.15	49	3.0	0.50
34.1	Schroon L-S	09/01/2009		5.93	1.5	0.005	0.02	0.03	0.13	38.06	20	7.44	58		0.30
34.1	Schroon L-S	10/02/2009	35.7	3.95	1.0	0.005	0.01	0.01	0.11	54.59	24	7.44	64		0.10
34.1	Schroon L-S	6/13/2010	45.0	4.10		0.003	0.04	0.02	0.13	64.50	13	7.66	74	8.0	2.80
J7.1	COMOUNT L-O	0/10/2010	40.0	7.10	l	0.010	0.07	0.01	0.00	UT.UU	10	7.00	17	5.0	2.00

Num Phame Date Zbot Zabr Zabr	Nium	DNome	Doto	Zhat	Zod	Zaamn	Tot D	NO2	NILIA	TDN	TN/TD	TColor	nl l	Candor	Co	Chlo
34.1 Schroon LS 778/2010 47.0 4.10	Num	PName Sebrean L S	Date			Zsamp					TN/TP	TColor	_		Ca	Chl.a
94.1 Schroon LS 1731/2010 42.0 3.85																_
34.1 Schroon L.S 81/22/010 48.0 44.5																-
34.1 Schroon LS 8/24/2010 4.0 4.95																
34.1 Schroon LS 97/2010															C 4	
34.1 Schroon LS 10/10/2010				44.0		4.5									6.1	
34.1 Schroon LS 7/19/2011																
34.1 Schroon LS 73/12011 5.50 1.5 0.011 0.08 0.04 0.29 58.27 32 7.73 57 0.20 0.40 1.41 Schroon LS 81/12011 5.51 5. 0.011 0.08 0.04 0.15 1.75 2.3 8.22 60 0.40 0.40 1.41 Schroon LS 81/12011 3.65 1.5 0.010 0.08 0.04 0.15 1.76 2.3 8.20 60 0.40 1.41 Schroon LS 81/12011 3.65 1.5 0.010 0.00 1.02 0.20 2.3 58.00 20 7.78 70 0.60 0.40 1.41 Schroon LS 91/12011 3.65 1.5 0.010 0.00 1.04 0.29 61.56 7.36 65 5.5 0.65 1.41 Schroon LS 91/12011 3.10 1.5 0.009 0.07 0.03 0.31 7.53 7.50 1.00 1.41 Schroon LS 10/12011 3.10 1.5 0.009 0.07 0.03 0.31 7.53 7.52 1.41 0.40 1.41 Schroon LS 91/12012 3.00 5.40 1.5 0.000 0.07 0.03 0.15 78.53 2.8 7.52 1.41 0.40 1.41 Schroon LS 91/12012 3.00 5.40 1.5 0.000 0.02 0.03 0.24 8.83 30 7.73 57 0.02 0.03 1.41 Schroon LS 91/12012 3.00 5.40 1.5 0.000 0.02 0.03 0.24 8.87 19 7.67 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.41 0.10 1.4																
34.1 Schroon LS 73/1/2011															4.2	
34.1 Schroon L.S 34/19/2011 4.30 1.5 0.009 0.02 0.02 0.23 58.00 20 7.78 70 0.66 0.04 0.04 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05																
34.1 Schroon LS 8/31/2011 3.65 1.5 0.010 0.06 0.04 0.29 61.56 7.36 65 5.5 0.05 34.1 Schroon LS 0.09/2011 3.10 1.5 0.013 0.10 0.30 2.28 45.83 30 7.13 57 0.10 34.1 Schroon LS 0.09/2012 30.5 496 1.5 0.006 0.07 0.03 0.31 76.53 28 7.52 41 0.10 34.1 Schroon LS 0.09/2012 30.5 496 1.5 0.006 0.07 0.03 0.31 76.53 28 7.52 41 0.10 34.1 Schroon LS 8/22012 30.0 6.40 1.5 0.006 0.02 0.03 0.24 8.78 19 7.67 41 0.10 34.1 Schroon LS 8/22012 30.0 4.08 1.5 0.006 0.02 0.03 0.24 8.78 19 7.67 41 0.30 34.1 Schroon LS 8/22012 30.0 4.08 1.5 0.006 0.02 0.03 0.24 8.69.2 10 8.77 91 0.30 34.1 Schroon LS 8/22012 30.0 4.08 1.5 0.006 0.01 0.02 0.11 81.96 6 8.75 98 62 2.20 34.1 Schroon LS 7/21/2013 3.00 2.55 1.5 0.006 0.01 0.02 0.14 0.9 10 6.75 73 6.7 2.10 34.1 Schroon LS 7/21/2013 3.00 2.55 1.5 0.006 0.01 0.02 0.13 44.00 10 6.75 73 6.7 2.10 34.1 Schroon LS 8/19/2013 3.0 3.0 8.0 1.5 0.000 0.00 0.02 0.13 44.00 26 8.32 61 3.10 34.1 Schroon LS 8/19/2013 3.0 3.0 8.0 1.5 0.000 0.00 0.13 44.00 26 8.32 61 3.10 34.1 Schroon LS 8/19/2013 3.0 3.0 0.04 0.01 0.01 0.15 3.68 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00																
34.1 Schroon L.S 9/18/2011 3.90 1.5 0.013 0.10 0.30 0.28 45.83 30 7.13 67 0.40 34.1 Schroon L.S 16/28/2012 30.5 4.95 1.5 0.006 0.07 0.03 0.15 50.60 17 7.83 35 5.8 6.50 34.1 Schroon L.S 8/12/2012 30.0 5.40 1.5 0.006 0.07 0.03 0.15 50.60 17 7.83 35 5.8 6.50 34.1 Schroon L.S 8/12/2012 30.0 5.20 1.5 0.006 0.02 0.01 0.02 0.21 8.78 19 7.67 41 0.10 34.1 Schroon L.S 8/12/2012 30.0 5.20 1.5 0.006 0.02 0.03 0.24 86.92 10 8.77 91 0.30 34.1 Schroon L.S 8/12/2012 30.0 4.68 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20 34.1 Schroon L.S 9/16/2012 30.0 4.68 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20 34.1 Schroon L.S 9/16/2012 30.0 5.08 1.5 0.004 0.01 0.03 0.26 145.20 13 7.25 75 0.80 34.1 Schroon L.S 7/17/2013 30.0 8.05 1.5 0.004 0.01 0.03 0.26 145.20 13 7.25 75 0.80 34.1 Schroon L.S 7/17/2013 30.0 8.01 1.5 0.006 0.01 0.01 0.30 8.79 9.6 7.75 66 2.50 34.1 Schroon L.S 9/18/2013 33.0 4.10 1.5 0.006 0.01 0.01 0.34 137.94 20 7.96 30 2.20 34.1 Schroon L.S 9/18/2013 33.0 4.10 1.5 0.006 0.01 0.01 0.34 137.94 20 7.96 30 2.20 34.1 Schroon L.S 9/18/2003 30.5 0.004 0.10 0.10 0.10 0.28 73.96 0.24 0.25 34.1 Schroon L.S 8/18/2003 30.5 0.004 0.10 0.10 0.28 73.96 0.24 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25	34.1				4.30	1.5				0.23		20		70		0.60
34.1 Schroon L.S 109/2011 3.10 1.5 0.009 0.07 0.03 0.31 78.53 28 75.52 41 0.40 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41 0.41	34.1					1.5				0.29	61.56			65	5.5	0.05
34.1 Schroon L-S 6/28/2012 30.5 4.95 1.5 0.006 0.07 0.03 0.15 69.60 17 7.83 35 5.8 6.50 34.1 Schroon L-S 72/2012 30.0 5.20 1.5 0.006 0.02 0.03 0.24 8.69.2 10 8.77 91 0.30 34.1 Schroon L-S 8/4/2012 30.0 4.88 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20 34.1 Schroon L-S 9/4/2012 30.0 4.88 1.5 0.005 0.01 0.14 0.20 14.09 10 6.75 73 6.7 2.10 34.1 Schroon L-S 9/4/2012 30.0 5.08 1.5 0.004 0.01 0.14 0.20 14.09 10 6.75 73 6.7 2.10 34.1 Schroon L-S 77/21073 73 0.50 1.5 0.004 0.01 0.03 0.26 145.20 13 7.25 75 0.80 34.1 Schroon L-S 77/31/2013 33.0 3.0 2.55 1.5 0.006 0.01 0.01 0.34 137.94 2.0 7.96 30 2.20 34.1 Schroon L-S 9/4/2013 33.0 3.0 1.5 0.006 0.01 0.01 0.34 137.94 2.0 7.96 30 2.20 34.1 Schroon L-S 9/4/2003 30.5 0.004 0.16 0.02 0.13 3.9 3.0 2.20 34.1 Schroon L-S 7/8/2003 30.5 0.004 0.17 0.02 0.36 96.23 3.41 Schroon L-S 7/8/2003 30.5 0.004 0.17 0.02 0.36 96.23 3.41 Schroon L-S 9/2/2003 30.5 0.004 0.17 0.02 0.36 96.23 3.41 Schroon L-S 9/2/2003 30.5 0.004 0.10 0.01 0.28 73.96 3.41 Schroon L-S 9/2/2003 30.5 0.004 0.01 0.01 0.28 73.96 3.41 Schroon L-S 9/2/2003 30.5 0.004 0.01 0.01 0.28 73.96 3.41 Schroon L-S 9/2/2003 30.5 0.004 0.01 0.01 0.28 73.96 3.41 Schroon L-S 9/1/2003 30.5 0.004 0.01 0.01 0.28 73.96 3.41 Schroon L-S 9/1/2003 30.5 0.004 0.00 0.01 0.28 73.96 3.41 Schroon L-S 9/1/2003 30.5 0.004 0.00 0.01 0.28 73.96 3.41 Schroon L-S 9/1/2003 30.5 0.004 0.00 0.01 0.28 73.96 3.41 Schroon L-S 9/1/2003 30.5 0.004 0.00 0.01 0.28 73.96 3.41 Schroon L-S 9/1/2003 30.5 0.004 0.00 0.01 0.01 0.28 73.96 3.41 Schro	34.1	Schroon L-S	9/18/2011		3.90	1.5	0.013	0.10	0.03		45.83	30	7.13	57		0.10
34.1 Schroon L-S 1722/2012 30.0 5.40 1.5 0.006 0.02 0.03 24 86.29 10 8.77 91 0.30 34.1 Schroon L-S 8/26/2012 30.0 4.68 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20 34.1 Schroon L-S 9/4/2012 30.0 4.68 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20 34.1 Schroon L-S 9/4/2012 30.0 4.08 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 73 6.7 2.10 34.1 Schroon L-S 9/4/2012 30.0 5.08 1.5 0.004 0.01 0.03 0.26 145.20 13 7.25 75 0.88 34.1 Schroon L-S 7721/2013 33.0 2.55 1.5 0.004 0.01 0.03 0.26 145.20 13 7.25 75 0.88 34.1 Schroon L-S 8/19/2013 33.0 3.80 1.5 0.009 0.01 0.01 0.38 97.99 26 7.75 66 2.50 34.1 Schroon L-S 9/18/2013 33.0 1.5 0.009 0.01 0.01 0.34 137.94 20 7.96 30 2.20 34.1 Schroon L-S 9/18/2003 30.5 0.004 0.16 0.02 0.15 36.88 3.41 Schroon L-S 8/18/2003 30.5 0.004 0.16 0.02 0.15 36.88 3.41 Schroon L-S 8/19/2003 30.5 0.004 0.17 0.01 0.27 80.33 3.41 Schroon L-S 8/19/2003 30.5 0.004 0.10 0.01 0.27 80.33 3.41 Schroon L-S 8/19/2003 30.5 0.004 0.10 0.01 0.27 80.33 3.41 Schroon L-S 8/19/2003 30.5 0.004 0.10 0.01 0.27 80.33 3.41 Schroon L-S 8/19/2003 30.5 0.004 0.10 0.01 0.27 80.33 3.41 Schroon L-S 8/18/2003 30.5 0.004 0.10 0.01 0.28 73.95 3.41 Schroon L-S 8/18/2004 34.7 30.5 0.004 0.01 0.01 0.28 73.95 3.41 Schroon L-S 8/18/2004 34.1 Schroon L-S 8/18/2004 34.1 30.5 0.004 0.05 0.01 0.14 2.26 3.58 3.41 Schroon L-S 8/18/2004 34.1 30.5 0.004 0.05 0.01 0.25 0.35 4.34 3.41 Schroon L-S 8/18/2004 35.1 30.5 0.004 0.15 0.01 0.27 0.39 3.41 Schroon L-S 8/18/2004 35.1 30.5 0.004 0.15 0.01 0.27 0.27 0.28 0.28 0.28 0.28 0.28 0.28 0	34.1	Schroon L-S	10/9/2011		3.10	1.5	0.009	0.07	0.03	0.31		28		41		0.40
34.1 Schroon L-S B/12/2012 30.0 5.20 1.5 0.006 0.02 0.03 0.24 86.92 10 8.77 91 0.30 34.1 Schroon L-S 9/4/2012 30.0 4.08 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20 34.1 Schroon L-S 9/4/2012 30.0 4.08 1.5 0.004 0.01 0.14 0.20 14.09 10 6.75 73 6.7 2.10 34.1 Schroon L-S 7/21/2013 30.0 5.08 1.5 0.004 0.01 0.03 0.26 145.20 13 7.25 75 0.80 34.1 Schroon L-S 7/31/2013 33.0 3.05 5.006 0.01 0.02 0.13 4.00 2.6 8.32 61 3.10 34.1 Schroon L-S 8/19/2013 33.0 3.05 0.009 0.01 0.01 0.34 137.94 20 7.96 30 2.20 34.1 Schroon L-S 6/19/2003 30.5 0.004 0.16 0.02 0.13 47.99 26 7.75 66 2.50 34.1 Schroon L-S 7/8/2003 30.5 0.004 0.17 0.02 0.36 96.23 3.1 34.1 Schroon L-S 7/8/2003 30.5 0.004 0.17 0.02 0.36 96.23 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.17 0.02 0.36 96.23 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.01 0.01 0.28 73.96 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.07 0.01 0.28 73.96 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.07 0.01 0.28 73.96 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.03 0.01 0.26 72.43 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.03 0.01 0.26 72.43 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.03 0.01 0.26 72.43 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.03 0.01 0.26 72.43 3.1 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.03 0.01 0.02 0.24 36.33 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.	34.1	Schroon L-S	6/28/2012	30.5	4.95	1.5	0.006	0.07	0.03	0.15	59.60	17	7.83	35	5.8	6.50
34.1 Schroon L-S B/26/2012 30.0 4.68 1.5 0.005 0.01 0.02 0.19 81.96 6 8.75 96 2.20	34.1	Schroon L-S	7/22/2012	30.0	5.40	1.5		0.01	0.02	0.21	8.78	19	7.67	41		0.10
34.1 Schroon L-S 9/4/2012 30.0 40.8 1.5 0.004 0.01 0.14 0.20 14.0 0.0 6.75 73 6.7 2.10	34.1	Schroon L-S	8/12/2012	30.0	5.20	1.5	0.006	0.02	0.03	0.24	86.92	10	8.77	91		0.30
34.1 Schroon L-S 7/12/2013 Schroon L-S 7/12/2013 Schroon L-S 7/12/2013 Schroon L-S 7/31/2013 Schroon L-S 7/31/2013 Schroon L-S 7/31/2013 Schroon L-S 7/31/2013 Schroon L-S 8/19/2013 Schroon L-S 8/19/2003 Schroon L-S 8/19/2004 Schroon L-S 8/19/2005 Schroon L-S 8/19/2006 Schroon L-S 8/19/2006 Schroon L-S 8/19/2008 Schroon L-S 8/19/2008 Schroon L-S 8/19/2008 Schroon L-S 8/19/2008 Schroon L	34.1	Schroon L-S	8/26/2012	30.0	4.68	1.5	0.005	0.01	0.02	0.19	81.96	6	8.75	96		2.20
34.1 Schroon L-S 7/12/2013 Schroon L-S 7/12/2013 Schroon L-S 7/12/2013 Schroon L-S 7/31/2013 Schroon L-S 7/31/2013 Schroon L-S 7/31/2013 Schroon L-S 7/31/2013 Schroon L-S 8/19/2013 Schroon L-S 8/19/2003 Schroon L-S 8/19/2004 Schroon L-S 8/19/2005 Schroon L-S 8/19/2006 Schroon L-S 8/19/2006 Schroon L-S 8/19/2008 Schroon L-S 8/19/2008 Schroon L-S 8/19/2008 Schroon L-S 8/19/2008 Schroon L	34.1	Schroon L-S	9/4/2012	30.0	4.08	1.5		0.01			14.09	10	6.75	73	6.7	2.10
34.1 Schroon L.S 7/21/2013 33.0 2.55 1.5 0.006 0.01 0.02 0.13 44.00 26 8.32 61 3.10 34.1 Schroon L.S 8/19/2013 33.0 2.55 1.5 0.009 0.38 97.99 26 7.75 66 2.50 34.1 Schroon L.S 8/19/2013 33.0 3.0 4.10 1.5 0.000 0.01 0.01 0.34 137.94 20 7.96 30 2.20 34.1 Schroon L.S 6/24/2003 30.5 0.004 0.16 0.02 0.15 36.88 34.1 Schroon L.S 7/22/2003 30.5 0.004 0.16 0.02 0.15 36.88 34.1 Schroon L.S 7/22/2003 30.5 0.004 0.17 0.02 0.36 96.23 34.1 Schroon L.S 8/52/2003 34.0 0.004 0.10 0.01 0.27 80.33 34.1 Schroon L.S 8/19/2003 30.5 0.004 0.10 0.01 0.28 73.96 34.1 Schroon L.S 8/19/2003 30.5 0.004 0.10 0.01 0.28 73.96 34.1 Schroon L.S 8/19/2003 30.5 0.004 0.00 0.10 0.05 72.43 34.1 Schroon L.S 9/17/2003 30.5 0.004 0.05 0.01 0.45 83.58 34.1 Schroon L.S 9/17/2003 30.5 0.004 0.05 0.01 0.45 83.58 34.1 Schroon L.S 8/11/2004 34.4 0.007 0.17 0.02 0.43 64.33 34.1 Schroon L.S 6/11/2004 34.4 0.007 0.17 0.02 0.43 64.33 34.1 Schroon L.S 6/11/2004 34.4 0.007 0.17 0.02 0.43 64.33 34.1 Schroon L.S 6/12/2004 34.5 30.5 0.004 0.25 0.03 1.04 291.49 34.1 Schroon L.S 8/12/2004 36.0 30.5 0.003 0.14 0.03 0.25 75.72 34.1 Schroon L.S 8/12/2004 36.0 30.5 0.000 0.15 0.01 0.25 108.94 34.1 Schroon L.S 8/12/2004 36.0 30.5 0.000 0.15 0.01 0.25 108.94 34.1 Schroon L.S 8/12/2004 36.0 30.5 0.000 0.15 0.01 0.25 108.94 34.1 Schroon L.S 8/12/2005 30.5 0.000 0.15 0.01 0.25 108.94 34.1 Schroon L.S 8/12/2005 30.5 0.000 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.004 0.15 0.0	34.1	Schroon L-S		30.0	5.08	1.5	0.004	0.01	0.03	0.26	145.20	13	7.25	75		0.80
34.1 Schroon L-S 9/18/2013 33.0 2.55 1.5 0.006 0.01 0.02 0.13 44.00 26 8.32 61 3.10 34.1 Schroon L-S 9/18/2013 33.0 3.80 1.5 0.009 0.01 0.01 0.38 9/799 26 7.76 66 2.50 34.1 Schroon L-S 9/18/2013 33.0 4.10 1.5 0.006 0.01 0.01 0.34 137.94 20 7.96 30 2.20 34.1 Schroon L-S 7/8/2003 30.5 0.004 0.16 0.02 0.15 36.88 34.1 Schroon L-S 7/8/2003 30.5 0.004 0.16 0.02 0.36 36.23 34.1 Schroon L-S 7/8/2003 30.5 0.004 0.17 0.01 0.27 80.33 34.1 Schroon L-S 8/18/2003 30.5 0.004 0.10 0.10 0.28 73.96 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.10 0.28 73.96 34.1 Schroon L-S 8/19/2003 30.5 0.004 0.10 0.28 73.96 34.1 Schroon L-S 8/19/2003 30.5 0.007 0.18 0.00 4.5 63.58 34.1 Schroon L-S 9/17/2003 30.5 0.004 0.05 0.01 0.26 72.43 34.1 Schroon L-S 9/17/2003 30.5 0.004 0.05 0.01 0.14 32.65 34.1 Schroon L-S 9/17/2004 34.4 30.5 0.004 0.05 0.01 0.14 32.65 34.1 Schroon L-S 6/23/2004 34.7 30.5 0.004 0.05 0.01 0.14 32.65 34.1 Schroon L-S 6/23/2004 34.7 30.5 0.003 0.14 0.02 0.43 46.33 34.1 Schroon L-S 7/12/2004 34.4 30.5 0.003 0.14 0.02 0.24 95.72 34.1 Schroon L-S 8/18/2004 36.1 30.5 0.003 0.14 0.03 0.25 75.72 34.1 Schroon L-S 8/18/2004 36.0 30.5 0.004 0.15 0.01 0.25 0.894 34.1 Schroon L-S 8/18/2004 36.0 30.5 0.004 0.15 0.01 0.25 0.894 34.1 Schroon L-S 8/18/2004 36.0 30.5 0.004 0.15 0.01 0.25 0.894 34.1 Schroon L-S 8/18/2004 36.0 30.5 0.004 0.15 0.01 0.25 0.894 34.1 Schroon L-S 8/18/2004 36.0 30.5 0.004 0.15 0.01 0.25 0.894 34.1 Schroon L-S 8/18/2004 36.0 30.5 0.004 0.15 0.01 0.25 0.894 34.1 Schroon L-S 8/18/2006 36.0 30.5 0.004 0																
34.1 Schroon L-S 8/19/2013 33.0 3.80 1.5 0.009 0.01 0.01 0.34 137.94 20 7.96 66 2.50				33.0	2.55	1.5	0.006	0.01	0.02	0.13	44.00	26	8.32	61		3.10
34.1 Schroon L-S 6/24/2003 3.0 4.10 1.5 0.006 0.01 0.01 0.34 137.94 20 7.96 30 2.20								0.0.	0.02							
34.1 Schroon L-S 6/24/2003 30.5 0.004 0.16 0.02 0.15 36.88								0.01	0.01							
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34.1 Schroon L-S 08/21/2009 35.7	34.1	Schroon L-S	08/04/2009	35.7		35.0	0.006									
	34.1	Schroon L-S	08/21/2009	35.7		35.0	0.006		0.01					0.10	0.10	0.90

Num	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	рН	Cond25	Ca	Chl.a
34.1	Schroon L-S	09/01/2009	35.7		35.0	0.005									
34.1	Schroon L-S	09/17/2009	35.7		35.0	0.007		0.01					0.10	0.10	0.34
34.1	Schroon L-S	10/02/2009	35.7			0.008									
34.1	Schroon L-S	6/13/2010	45.0		45.0	0.054		0.02					2.70	0.20	
34.1	Schroon L-S	7/8/2010	47.0		47.0	0.059		0.05					4.80	0.27	
34.1	Schroon L-S	7/31/2010	42.0		42.0	0.037		0.05					1.85	0.21	
34.1	Schroon L-S	8/24/2010	44.0			0.020		0.67					5.32	0.68	
34.1	Schroon L-S	10/10/2010			36.0	0.035		0.03							
34.1	Schroon L-S	7/10/2011		6.15	33.0	0.018		0.05					0.01	0.01	
34.1	Schroon L-S	7/31/2011		5.15	36.0	0.007		0.05					0.01	0.01	
34.1	Schroon L-S	8/31/2011		3.65	36.0	0.012		0.03					0.01	0.01	0.50
34.1	Schroon L-S	10/9/2011		3.10	36.0	0.007		0.02					0.01	0.01	
34.1	Schroon L-S	6/28/2012			27.5	0.029		0.03							
34.1	Schroon L-S	7/22/2012			25.0								0.06	0.02	
34.1	Schroon L-S	8/12/2012			27.5	0.006		0.35							
34.1	Schroon L-S	8/26/2012			27.5								0.08	0.02	1
34.1	Schroon L-S	9/4/2012			27.5	0.006		0.20							
34.1	Schroon L-S	9/16/2012			27.5								0.23	0.06	1.00
34.1	Schroon L-S	7/31/2013			27.5	0.008		0.02							
34.1	Schroon L-S	8/19/2013			27.5										
34.1	Schroon L-S	9/18/2013			27.5	0.005		0.02							

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34 Schroon L-N 8/3/1997 epi 31 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>1</td> <td></td>							1	2	1												
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34 Schroon L-N 9/2/2003 epi 21 2 1 5 58	34	Schroon L-N	8/5/2003	ері	25	26	2	1	2	5											
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34 Schroon L-N 9/17/2003 epi 23 21 1 1 1	34			ері			2	1	5	58											
	34	Schroon L-N	9/17/2003	epi	23	21	1	1	1												

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34	Schroon L-N	9/30/2003	ері	23		1	1	1	5											
34	Schroon L-N	6/11/2004	ері	20	20	3	1	3	8											
34	Schroon L-N	6/23/2004	epi	25	21	2	1	1	0											
34	Schroon L-N	7/7/2004	ері	21	21	2	1	2	5											
34	Schroon L-N	7/21/2004	ері	27	23	1	1	2	5											
34	Schroon L-N	8/4/2004	ері	19	23	2	1	3	5											
34	Schroon L-N	8/18/2004	ері	21	20	2	1	4	5											
34	Schroon L-N		epi	20	20	1	1	3	5											
34	Schroon L-N	9/14/2004	ері	18	18	2	1	2	0											
34	Schroon L-N	6/21/2005	ері	23	18	2	1	3	0											
34	Schroon L-N		ері	18	23	3	1	4	5											
34	Schroon L-N		epi	25	24	2	1	3	5											
34	Schroon L-N		ері	22	22	2	1	1	0											
34	Schroon L-N		ері	18	22	1	1	2	5											
34	Schroon L-N		ері	18	20	2	1	2	5											
34	Schroon L-N		epi	21	21	1	1	1	0											
34	Schroon L-N		epi	14	18	1	1	1	0											
34	Schroon L-N		ері	25	16	2	1	2	5											
34	Schroon L-N		epi	19	17	2	1	4	58											
34	Schroon L-N		epi	22	22	2	2	3	5											
34	Schroon L-N		epi	17	22	2	2	2	5											
34	Schroon L-N		ері	12	19	2	2	3	5											
34	Schroon L-N		epi	18	18	2	2	3	5											
34	Schroon L-N		epi	14	17	2	2	3	5											
34	Schroon L-N		epi	16		1	1	4	5											
34	Schroon L-N		epi	21	20	1		1	0											
34	Schroon L-N		epi	18	22	2	2	3	6											
34	Schroon L-N		epi	19	21	1	2	2	0											
34	Schroon L-N		epi	17	17	2	1	1	0											
34	Schroon L-N		epi	18	20	2	2	2	0											
34	Schroon L-N		epi	12	18	1	1	1	0											
34	Schroon L-N		epi	15	16	1	2	1	0											
34	Schroon L-N		epi	21	22	1	2	1	0											
34	Schroon L-N		epi	25	23	1	1	1	5					0.04						
34	Schroon L-N		epi	25		1	1	2	0					0.01						_
34	Schroon L-N		epi	26	47	1	1	1	0											_
34	Schroon L-N		epi	24	17	1	1	2	0			440								_
34	Schroon L-N		epi	25 22	23 22	1	1	1	0			14.0		0.00						-
34	Schroon L-N		epi	25	21	1	1	1	0			16.0		0.03						
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34	Schroon L-N		epi	22	15	1	1	1	6	_	0							-		\vdash
34	Schroon L-N Schroon L-N		epi	20	19 23	1	1	1	0		0						-	1		\vdash
34	Schroon L-N		epi	21	23	1	1	1	0			61.09								\vdash
	Schroon L-N		epi	18	21	1	1	1	0	0		38.94					<u> </u>			\vdash
34	Schroon L-N		epi epi	27	25	1	1	1	0	0		30.94								\vdash
34	Schroon L-N		epi	11	11	1	1	4	5	_		20.00		0.01				1		
34	Schroon L-N		epi	26	25	1	1	1	0	0	_	5.50	2 70	0.01				1		
34	Schroon L-N		epi	38	33	1	1	1	0		0	5.10					1	1		\vdash
34	Schroon L-N		epi	30	25	1	1	1	0	0	_	8.30					1	 		
34	Schroon L-N		epi	23	24	1	1	1	0		0	12.00					1	1		\vdash
34	Schroon L-N		epi	17	21	1	1	1	0	0	_	7.60					1	1		\vdash
34	Schroon L-N		epi	22	23	1	1	1	0	_	0	5.80	3.80				1	1		\vdash
34	Schroon L-N		epi	20	20	1	1	2	0		0	7.40	1.80							\vdash
34	Schroon L-N		epi	21	21	1	1	2	0		0	7.70								\vdash
34	Schroon L-N		epi	34	27	1	1	2	0		0	0.00		<0.30	<0.423		1 17	0.56		
34	Schroon L-N		epi	25	27	1	1	2	0		0		0.30				1.17	0.00		\vdash
34	Schroon L-N		epi	29	25	1	1	1	0		0	1.40			<3.299				ı	\vdash
34	Schroon L-N		epi	22	24	1	1	2	0		0	3.00		< 0.30			14 20	10.72	-	\vdash
34	Schroon L-N		epi	29	23	1	1	1	0		0		0.30					0.88		
34	Schroon L-N		epi	27	24	1	1	1	0	_	0				<3.299			0.56		
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34	Schroon L-N		epi	20	18	1	1	2	0	0	0	4.70			<3.205	Cyi	Oili	ВО	101111	TIAD
34	Schroon L-N		ері	16	17	1	1	1	0	0	0	3.50		< 0.30			1.68	0.65	1	
34	Schroon L-N		ері	29	23	1	1	1	0	0	0	0.70		< 0.30			1.40			
34	Schroon L-N		epi	31	25	1	1	2	0	0	0	2.80	2.20	< 0.30	<0.490			0.00	-	
34	Schroon L-N		ері	26	26	1	1	1	0	0	0	4.90					_	0.30	<u>'</u>	i
	Schroon L-N			28	24	1	1	2	0	0	0	10.40					0.00			+
34			epi			1			_		0	10.40	3.90							<u> </u>
34	Schroon L-N		epi	24 27	23 24	1	1	2	0	0	0			<0.30 <0.30					1	<u>'</u>
34	Schroon L-N		epi epi	25	21	1	1	1	0	0	0	4 20	1 20		<19.130			0.00		<u> </u>
				25	19	1			0	0	0	3.30			<19.130			0.00		+
34	Schroon L-N		epi	22	10	-	1	1	U	U	U	3.30	1.40	<0.30	<19.130		0.70	0.00	- 1	- '
34	Schroon L-N		hypo	28	12															
34	Schroon L-N		hypo	25	12															
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34	Schroon L-N		hypo	25	10															
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34	Schroon L-N	9/3/2002	hypo hypo	27	10.0															
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34			hypo	25	11 9															
34	Schroon L-N	6/24/2003	hypo		9															
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34	Schroon L-N		hypo		7															
34	Schroon L-N		hypo		6															
34	Schroon L-N		hypo		7															
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34	Schroon L-N		hypo		6															
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34	Schroon L-N		hypo		9															
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34	Schroon L-N		hypo		5															
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34	Schroon L-N				6															
34	Schroon L-N		-		5		 	 						1						
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34		8/28/2010	hypo	17311	10	QΛ	Qυ	QO	QD	αı	QO		Office	LIX	Alla a	Cyi	Oili	ВО	101111	TIAD
34	Schroon L-N		hypo		10															
34	Schroon L-N				8															
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34	Schroon L-N		hypo		10															
34		9/22/2011	hypo		8															
34	Schroon L-N		hypo		11															
34	Schroon L-N	7/5/2012	hypo		12															
34	Schroon L-N		hypo		11															
34	Schroon L-N		hypo		13															
34	Schroon L-N		hypo		9															
34	Schroon L-N	9/1/2012	hypo		7															
34	Schroon L-N	9/21/2012	hypo		7															
34	Schroon L-N	9/26/2012	hypo		7															
34	Schroon L-N		hypo		21															
34	Schroon L-N		hypo		22															
34	Schroon L-N		hypo		7															
34	Schroon L-N		hypo		6															
34	Schroon L-N		- , .		6															
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34	Schroon L-N		hypo		6															
34	Schroon L-N		hypo		6															
34	Schroon L-N		hypo		6															
34.1		6/24/2003	ері	36	24	2	1	1	8								ļ			
34.1	Schroon L-S	7/8/2003	ері	27	25	1	1	1												
34.1	Schroon L-S		epi	23	23	1	1	1	8											
34.1	Schroon L-S	8/5/2003	epi	26	24	2	1	2	5											
34.1	Schroon L-S	8/19/2003	epi	22	24	1	1	1												
34.1	Schroon L-S	9/2/2003	epi	18	21	2	1	2	5											
34.1	Schroon L-S	9/17/2003	epi	23	21	1	1	1												
34.1	Schroon L-S		epi	16		1	1	1	5											
34.1	Schroon L-S		epi	23	19	3	1	3	8											
34.1		6/23/2004	epi	25	21	2	1	1	0											
34.1	Schroon L-S	7/7/2004	epi	19	21	2	1	2	5											-
34.1	Schroon L-S		epi	27	23	1	1	2	5											
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34.1			epi	20		2		3	5											
34.1		8/18/2004	epi	20	20		1	4	_											
34.1	Schroon L-S	9/1/2004	epi	20	21	1	1	2	5											
34.1	Schroon L-S		ері	17	17	2	1	1	0											
34.1	Schroon L-S		epi	23	19	2	1	3	0											
34.1	Schroon L-S	7/5/2005	ері	18	22	3	1	4	5											
34.1	Schroon L-S	7/19/2005	epi	25	24	2	1	3	5											
34.1	Schroon L-S	8/2/2005	ері	23	22	2	1	1	0	L	L									
34.1	Schroon L-S	8/16/2005	epi	20	22	1	1	2	5											
34.1	Schroon L-S	8/30/2005	epi	16	20	2	1	2	5											
34.1	Schroon L-S		epi	24	21	1	1	1	0											
34.1	Schroon L-S		epi	17	17	1	1	1	0											
34.1	Schroon L-S		epi	25	17	2	2	2	5								1			
34.1	Schroon L-S		ері	21	18	2	1	4	5											
34.1	Schroon L-S		epi	22	22	2	2	3	5								1			
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34.1	Schroon L-S		epi	18	22	2			_											-
34.1	Schroon L-S		epi	13	19	2	2	3	5	-							-			\vdash
34.1	Schroon L-S		epi	18	18	2	2	3	5		<u> </u>									
34.1	Schroon L-S		epi	13	16	2	2	3	5											
34.1	Schroon L-S		ері	16	21	1	2	1	0								ļ			
34.1	Schroon L-S		epi	21	23	1	1	1	5											
34.1	Schroon L-S	8/18/2008	epi	24	24	1	1	1	15											
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34.1	Schroon L-S		epi	24	22															
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34.1	Schroon L-S			16	19	1	3	1	0								1			
34.1	Schroon L-S		_	26	19	1	3	1	0		-						 			
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34.1	Schroon L-S		epi	19	18	1	3	2	0	Qι	QO	10	Cilia	LIX	Alla-a	Суі	Cili	ВО	101111	וואט
34.1	Schroon L-S		ері	21	20	2	3	2	28											
34.1	Schroon L-S			23	22	1	3	2	0					0.01						
\vdash	Schroon L-S		epi	7	18	<u>'</u> 1	3	1	0			15.4		0.01						
34.1	Schroon L-S		epi	13	18		3	_	0			15.4 17.9		0.00						
34.1			epi	13	10	1	3	1	U					0.02						
34.1	Schroon L-S		epi	40	40		_	_	_	_	_	19.4		0.01						
34.1	Schroon L-S		epi	18	18	1	1	2	0	0	0									
34.1	Schroon L-S		epi	28	26	1	1	2	0	0	0									
34.1	Schroon L-S	7/8/2010	epi	37	29	1	1	1	0	0	0									
34.1	Schroon L-S		epi	28	26	1	1	2	0	0	0									
34.1	Schroon L-S		epi	24	25				_	_		7.00		0.01						
34.1	Schroon L-S		epi	20	22	1	1	1	0	0		29.32								
34.1		9/7/2010	epi	16	19	1	1	1	0	0	_	43.51								
34.1	Schroon L-S		epi	13	12	1	3	1	0	0	_	57.04								
34.1	Schroon L-S		epi	33	22	1	1	1	0	0	0	0.00	0.50							
34.1		7/19/2011	epi	26	24	2	2	1	0	0	_		2.50							
34.1	Schroon L-S		epi	17	22	1	3	1	0	0	0	4.10	1.97							
34.1	Schroon L-S		epi	17	22	2	3	1	0	0	0	6.00	2.50							
34.1	Schroon L-S		epi	23	18	1	3	1	0	0	0	8.90	2.20							
34.1	Schroon L-S		epi	13	16	2	3	1	0	0	0	4.70	2.40							
34.1	Schroon L-S		epi	25	15	1	1	1	0	0	0	3.40	5.10							
34.1	Schroon L-S		epi	27	20	2	2	2	0	0	0									
34.1	Schroon L-S		epi	28	22	2	3	2	0	0	0	4.55	0	0.55	0.555		0.01	4 = -	F	
34.1	Schroon L-S		epi	24	23	1	3	1	0	0	0			<0.30	<0.537		3.21		<u> </u>	
34.1	Schroon L-S		epi	18	21	1	3	2	0	0	0	2.00		<0.30	<0.551			1.12	ı	
34.1	Schroon L-S	9/4/2012	epi	17	20	1	3	2	0	0	0	1.60			<0.725			1.50		
34.1	Schroon L-S		epi	17	18	1	1	1	0	0	0	0.30	0.50	<0.30	<3.205		2.05	0.89		
34.1	Schroon L-S		epi						_	_	_									
34.1	Schroon L-S		epi	28	21	2	2	2	0	0	0	4.50		<0.30	<0.390			0.70	<u>!</u>	
34.1	Schroon L-S		epi	24	21	2	3	2	0	0	0	4.60		<0.30	<0.390				- !	
34.1	Schroon L-S		epi	22	17	2	3	2	0	0	0	3.20	1.60	<0.30	<19.130		1.80	0.30	ı	I
34.1		6/24/2003	hypo		9															
34.1	Schroon L-S	7/8/2003	hypo		9															
34.1	Schroon L-S		hypo		7															
34.1	Schroon L-S	8/5/2003	hypo		8															
34.1	Schroon L-S		hypo		11															
34.1	Schroon L-S	9/2/2003	hypo		8															
34.1	Schroon L-S		hypo		15															
34.1	Schroon L-S		hypo		7															
34.1	Schroon L-S		7		8															
34.1	Schroon L-S				6					-										
34.1	Schroon L-S		hypo		5					_										
34.1	Schroon L-S				6					_										
34.1	Schroon L-S		hypo		6 7															
34.1	Schroon L-S									_										
34.1	Schroon L-S Schroon L-S		hypo		6			-												
34.1			, ,		6					_										
34.1	Schroon L-S				6			-												
34.1	Schroon L-S				8					_										
34.1	Schroon L-S		hypo		6 7					_										
34.1	Schroon L-S				7															
34.1	Schroon L-S									_										
34.1	Schroon L-S				8 7			-												
34.1	Schroon L-S									-										
34.1	Schroon L-S Schroon L-S				6					-										
34.1	Schroon L-S				8					-										
34.1					5 5					-										
34.1	Schroon L-S				5					-										
34.1	Schroon L-S				7					-										
34.1	Schroon L-S		hypo		5					-										
34.1	30110011 L-3	3/20/2006	пуро		ວ			<u> </u>		<u> </u>		<u> </u>	l					<u> </u>		l

												AQ-	AQ-	MC-			FP-	FP-	HAB	Shore
LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	PC	Chla	LR	Ana-a	Cyl	Chl	BG	form	HAB
34.1	Schroon L-S	7/23/2008	hypo		8															
34.1	Schroon L-S	8/18/2008	hypo		9															
34.1	Schroon L-S	8/27/2008	hypo		10															
34.1	Schroon L-S				9															
34.1	Schroon L-S	9/23/2008	hypo		8															
34.1	Schroon L-S				6															
34.1	Schroon L-S				6															
34.1	Schroon L-S	07/10/2009	hypo		5															
34.1	Schroon L-S	07/19/2009	hypo		5															
34.1	Schroon L-S	08/04/2009	hypo		5															
34.1	Schroon L-S				5															
34.1	Schroon L-S	09/01/2009	hypo		5															
34.1	Schroon L-S	6/13/2010	hypo		10															
34.1	Schroon L-S	7/8/2010	hypo		9															
34.1	Schroon L-S	7/31/2010	hypo		10															
34.1	Schroon L-S	8/24/2010	hypo		10															
34.1	Schroon L-S	10/10/2010	hypo		5															
34.1	Schroon L-S				5															
34.1	Schroon L-S		hypo		14															
34.1	Schroon L-S		hypo		5															
34.1	Schroon L-S		hypo		5															
34.1	Schroon L-S		hypo		7															
34.1	Schroon L-S		hypo		7															
34.1	Schroon L-S	8/12/2012	hypo		7															
34.1	Schroon L-S		hypo		6															
34.1	Schroon L-S		hypo		6															
34.1	Schroon L-S	9/16/2012	hypo		6															
34.1	Schroon L-S	7/31/2013	hypo		10															
34.1	Schroon L-S	8/19/2013	hypo		4															
34.1	Schroon L-S	9/18/2013	hypo		5															

Legend Information

Indicator	Description	Detection Limit	Standard (S) / Criteria (C)
General Inform	nation	1	
Lnum	lake number (unique to CSLAP)		
Lname	name of lake (as it appears in the Gazetteer of NYS Lakes)		
Date	sampling date		
Field Paramete	ers .		
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 Par	ameters		
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
рН	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
Са	calcium (mg/l)	1 mg/l	none
Chl.a	chlorophyll a (ug/l)	0.01 ug/l	none
Fe	iron (mg/l)	0.1 mg/1	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 (aquaflor) (unitless)	1 unit	none
AQ-Chl	Chlorophyll a (aquaflor) (ug/l)	1 ug/l	none
MC-LR	Microcystis-LR (ug/I)	0.01 ug/l	1 ug/l potable (C) 20 ug/l swimming (C
Ana	Anatoxin-a (ug/l)	variable	none
Cyl	Cylindrospermposin (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 Assessme	nt	_1	<u> </u>
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		

Appendix B- Monthly Evaluation of Schroon Lake (North) Data, 2006-2013

June Data

	2006	2007	2008	2009	2010	2011	2012	2013
Zsd	NORMAL	•	NORMAL	•	NORMAL	•	NORMAL	NORMAL
TP	NORMAL		NORMAL		NORMAL		NORMAL	
Chl.a	NORMAL		LOW		LOW			
NOx	HIGH		NORMAL		NORMAL		NORMAL	NORMAL
NH4	NORMAL		NORMAL		NORMAL		NORMAL	NORMAL
TN	NORMAL		LOW		NORMAL		NORMAL	NORMAL
рН	NORMAL		NORMAL		NORMAL		NORMAL	NORMAL
SpCond	NORMAL		NORMAL		NORMAL		NORMAL	NORMAL
Color	NORMAL		NORMAL		LOW		NORMAL	NORMAL
Са	NORMAL		NORMAL				NORMAL	
QA	NORMAL		NORMAL		NORMAL		NORMAL	NORMAL
QB	NORMAL		NORMAL		NORMAL		NORMAL	NORMAL
QC	NORMAL		HIGH		NORMAL		NORMAL	NORMAL
TH20	LOW				NORMAL		NORMAL	NORMAL

High = average monthly reading > 90th percentile reading for lake, 2000-2010

Low = average monthly reading < 10th percentile reading for lake, 2000-2010

Normal = average monthly reading between 10th and 90th percentile reading for lake, 2000-2010

July Data

	2006	2007	2008	2009	2010	2011	2012	2013
Zsd	NORMAL		HIGH	NORMAL	NORMAL	NORMAL	NORMAL	LOW
TP	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
Chl.a	NORMAL		LOW	LOW	NORMAL	NORMAL		
NOx	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
NH4	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TN	HIGH		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
рН	NORMAL		NORMAL	LOW	HIGH	NORMAL	HIGH	NORMAL
SpCond	NORMAL		NORMAL	LOW	NORMAL	NORMAL	NORMAL	NORMAL
Color	NORMAL		NORMAL	HIGH	NORMAL	NORMAL	NORMAL	NORMAL
Са				NORMAL		NORMAL		
QA	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QB	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TH20	NORMAL	·	NORMAL	NORMAL	NORMAL	HIGH	NORMAL	HIGH

High = average monthly reading > 90th percentile reading for lake, 2000-2010 Low = average monthly reading < 10th percentile reading for lake, 2000-2010 Normal = average monthly reading between 10th and 90th percentile reading for lake, 2000-2010

August Data

	2006	2007	2008	2009	2010	2011	2012	2013
Zsd	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TP	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
Chl.a	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL		
NOx	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
NH4	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
TN	HIGH		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
рН	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SpCond	NORMAL		NORMAL	LOW	NORMAL	NORMAL	NORMAL	NORMAL
Color	NORMAL		NORMAL	HIGH	LOW	NORMAL	NORMAL	NORMAL
Са	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
QA	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QB	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TH20	NORMAL		NORMAL	LOW	NORMAL	NORMAL	NORMAL	NORMAL

High = average monthly reading > 90th percentile reading for lake, 2000-2010 Low = average monthly reading < 10th percentile reading for lake, 2000-2010 Normal = average monthly reading between 10th and 90th percentile reading for lake, 2000-2010

September Data

Бертеп		2007	2000	2000	2010	2011	2012	2042
	2006	2007	2008	2009	2010	2011	2012	2013
Zsd	NORMAL		NORMAL	NORMAL		LOW	NORMAL	NORMAL
TP	NORMAL		NORMAL	NORMAL		NORMAL	NORMAL	NORMAL
Chl.a	NORMAL		NORMAL	HIGH		NORMAL		
NOx	NORMAL		NORMAL	NORMAL		HIGH	NORMAL	
NH4	NORMAL		LOW	NORMAL		NORMAL	NORMAL	NORMAL
TN	NORMAL		NORMAL	NORMAL		HIGH	NORMAL	NORMAL
рН	NORMAL		HIGH	NORMAL		NORMAL	NORMAL	NORMAL
SpCond	NORMAL		NORMAL	LOW		NORMAL	NORMAL	NORMAL
Color	NORMAL		NORMAL	NORMAL		HIGH	NORMAL	NORMAL
Са								
QA	NORMAL		NORMAL	NORMAL		NORMAL	NORMAL	NORMAL
QB	NORMAL		NORMAL	NORMAL		NORMAL	NORMAL	NORMAL
QC	NORMAL		NORMAL	NORMAL		NORMAL	NORMAL	NORMAL
TH20	NORMAL		LOW	NORMAL		NORMAL	LOW	NORMAL

High = average monthly reading > 90th percentile reading for lake, 2000-2010

Low = average monthly reading < 10th percentile reading for lake, 2000-2010

Normal = average monthly reading between 10th and 90th percentile reading for lake, 2000-2010

Monthly Evaluation of Schroon Lake (South) Data, 2006-2013

June Data

	2006	2007	2008	2009	2010	2011	2012	2013
Zsd	NORMAL		NORMAL	NORMAL	NORMAL		NORMAL	
TP	NORMAL		HIGH	NORMAL	NORMAL		NORMAL	
Chl.a	NORMAL		NORMAL	NORMAL	NORMAL		HIGH	
NOx	HIGH		NORMAL	NORMAL	NORMAL		NORMAL	
NH4	NORMAL		NORMAL	NORMAL	NORMAL		NORMAL	
TN	NORMAL		NORMAL	LOW	NORMAL		NORMAL	
рН	NORMAL		LOW	NORMAL	NORMAL		NORMAL	
SpCond	NORMAL		NORMAL	NORMAL	NORMAL		LOW	
Color	NORMAL		NORMAL	HIGH	NORMAL		NORMAL	
Са	NORMAL		NORMAL	NORMAL	HIGH		NORMAL	
QA	NORMAL		NORMAL	NORMAL	NORMAL		NORMAL	
QB	NORMAL		NORMAL	NORMAL	NORMAL		NORMAL	
QC	NORMAL		NORMAL	NORMAL	NORMAL		NORMAL	
TH20	NORMAL	•	NORMAL	NORMAL	NORMAL	·	NORMAL	

High = average monthly reading $> 90^{th}$ percentile reading for lake, 2000-2010 Low = average monthly reading $< 10^{th}$ percentile reading for lake, 2000-2010 Normal = average monthly reading between 10^{th} and 90^{th} percentile reading for lake, 2000-2010

July Data

	july Du	ш							
Ī		2006	2007	2008	2009	2010	2011	2012	2013
	Zsd	NORMAL		NORMAL	NORMAL	NORMAL	HIGH	HIGH	LOW
	TP	NORMAL		LOW	NORMAL	NORMAL	NORMAL	HIGH	NORMAL
	Chl.a	HIGH		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	HIGH
Ī	NOx	NORMAL			NORMAL	NORMAL	HIGH	NORMAL	
	NH4	NORMAL			NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	TN	HIGH			NORMAL	NORMAL	NORMAL	NORMAL	LOW
Ī	рН	HIGH		HIGH	NORMAL	NORMAL	NORMAL	NORMAL	HIGH
	SpCond	LOW		NORMAL	NORMAL	NORMAL	NORMAL	LOW	NORMAL
	Color	HIGH		NORMAL	HIGH	NORMAL	NORMAL	NORMAL	NORMAL
	Са						LOW		
	QA	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	QB	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	QC	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
Ī	TH20	NORMAL		NORMAL	NORMAL	HIGH	NORMAL	NORMAL	NORMAL

High = average monthly reading $> 90^{th}$ percentile reading for lake, 2000-2010 Low = average monthly reading $< 10^{th}$ percentile reading for lake, 2000-2010 Normal = average monthly reading between 10^{th} and 90^{th} percentile reading for lake, 2000-2010

August Data

	2006	2007	2008	2009	2010	2011	2012	2013
Zsd	NORMAL		LOW	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TP	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
Chl.a	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
NOx	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
NH4	NORMAL		LOW	NORMAL	NORMAL	NORMAL	NORMAL	
TN	HIGH		NORMAL	LOW	NORMAL	NORMAL	NORMAL	
рН	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	HIGH	NORMAL
SpCond	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	HIGH	NORMAL
Color	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	LOW	NORMAL
Са	NORMAL			NORMAL	NORMAL	NORMAL		
QA	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QB	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TH20	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL

High = average monthly reading > 90th percentile reading for lake, 2000-2010

Low = average monthly reading < 10th percentile reading for lake, 2000-2010

Normal = average monthly reading between 10th and 90th percentile reading for lake, 2000-2010

September Data

september satu											
	2006	2007	2008	2009	2010	2011	2012	2013			
Zsd	NORMAL		NORMAL	NORMAL	HIGH	NORMAL	NORMAL	NORMAL			
TP	NORMAL		LOW	NORMAL	HIGH	NORMAL	NORMAL	NORMAL			
Chl.a	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL			
NOx	NORMAL		NORMAL	NORMAL	NORMAL	HIGH	NORMAL	•			
NH4	HIGH		NORMAL	NORMAL	NORMAL	NORMAL	HIGH				
TN	NORMAL		NORMAL	LOW	NORMAL	NORMAL	NORMAL	NORMAL			
рН	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	LOW	NORMAL			
SpCond	NORMAL		NORMAL	NORMAL	HIGH	NORMAL	NORMAL	LOW			
Color	LOW		NORMAL	NORMAL	NORMAL	NORMAL	LOW	NORMAL			
Са			LOW				HIGH				
QA	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL			
QB	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL			
QC	NORMAL		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL			
TH20	NORMAL		NORMAL	NORMAL	NORMAL	LOW	NORMAL	NORMAL			

High = average monthly reading > 90th percentile reading for lake, 2000-2010

Low = average monthly reading < 10th percentile reading for lake, 2000-2010

Normal = average monthly reading between 10th and 90th percentile reading for lake, 2000-2010

Appendix C- Priority Waterbody Listing for Schroon Lake

Schroon Lake (1104-0002)

Impaired Seg

Revised: 12/11/2006

Waterbody Location Information

Water Index No: H-391 (portion 3)/P374 Drain Basin: Upper Hudson River Hydro Unit Code: 02020001/090 Str Class: A Upper Hudson

Waterbody Type: Lake Reg/County: 5/Warren Co. (57)

Waterbody Size: 4128.1 Acres Quad Map: SCHROON LAKE (F-25-0)

Seg Description: entire lake

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted Severity Problem Documentation

FISH CONSUMPTION Impaired Known

Type of Pollutant(s)

Known: METALS (mercury), PRIORITY ORGANICS (PCBs)

Suspected: --Possible: ---

Source(s) of Pollutant(s)

Known: ---

Suspected: TOX/CONTAM. SEDIMENT Possible: UNKNOWN SOURCE

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)

Lead Agency/Office: ext/EPA Resolution Potential: Low

TMDL/303d Status: 2b (Multiple Segment/Categorical Water, Fish Consumption))

Further Details

Fish consumption in Schroon Lake is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of larger lake trout (over 27 inches), larger yellow perch (over 13 inches) and smallmouth bass; the advisories are the result of elevated PCB and mercury levels. The most recent laboratory results from lake trout and yellow perch collected in 1989 (DFW) suggest that PCB and other organochlorine concentrations in fish have declined, but mercury concentrations in lake trout were still relatively high. The source of mercury is considered to be atmospheric deposition, as there are not other apparent sources in the lake watershed. The advisory for this lake related to PCBs was issued prior to 1998-99; the mercury advisory was added in 2000-01. (2006-07 NYS DOH Health Advisories and DEC/FWMR, Habitat, December 2006).

Water column, soil and bottom sediment samples taken by the regional staff (1990) and central office (1991, DEC/DOW BMA report June 1992) showed only very low concentrations of PCBs and mercury. Macroinvertebrate sampling (1991) found no significant levels of PCBs in invertebrates, but mercury was found above levels of concern in crayfish in Schroon River above the inlet. Based on the various data gathered it was determined jointly by DFW and BMA staff that although PCB and other organochlorine contamination of Schroon Lake lake trout is no longer as serious, monitoring of the Fisheries resource should be continued, since sensitive species of fish-eating wildlife are at risk. No additional

biological sampling of the Schroon River inlet or its tributaries was recommended, as DFW data suggested mercury concentrations, though elevated, were typical of other waters affected by atmospheric deposition of mercury in this region of NYS. (DEC/DOW and FWMR, BWAM and Habitat, 2000)

Schroon Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1987 and continuing through 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. These data indicate that the lake continues to be best characterized as mesoligotropic, or moderately unproductive. Phosphorus levels in the lake are consistently below criteria that would indicate impacted recreational uses and transparency measurements satisfy what is recommended for swimming beaches. (DEC/DOW, BWAM/CSLAP, May 2006)

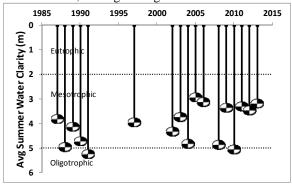
Public perception of the Schroon Lake and its uses are also evaluated as part of the CSLAP program. These assessment also indicate recreational suitability of the lake to be mostly favorable since the lake was first evaluated and continuing through the most recent assessment. Recreational conditions in the lake have been most often described as "could not be nicer" to "excellent" for most uses. The lake is regularly described as "not quite crystal clear." Aquatic plant are not typically visible from the lake surface. (DEC/DOW, BWAM/CSLAP, May 2006)

This waterbody is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake was included on Part 2b of the List as a Fish Consumption Water.

Appendix D- Long Term Trends: Schroon Lake-North Basin

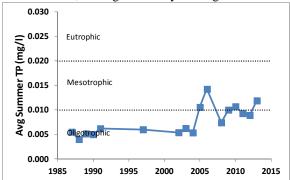
Long Term Trends: Water Clarity

- No trends apparent; slightly lower since '11
- Most readings typical of *mesoligotrophic* lakes, in range of algae and TP levels



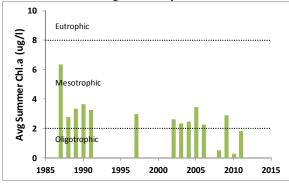
Long Term Trends: Phosphorus

- Slight increase in TP levels since mid 2000s
- Most readings typical of *mesoligotrophic* lakes, in range of clarity and algae levels



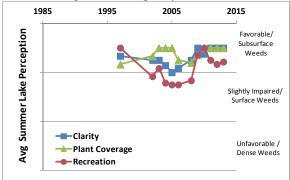
Long Term Trends: Chlorophyll a

- Algae levels not measured since 2011
- Most readings typical of *mesoligotrophic* lakes, in range of clarity and TP levels



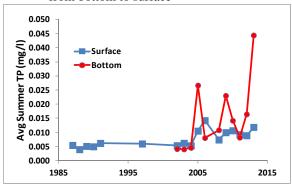
Long Term Trends: Lake Perception

- No trends apparent
- Recreational perception not closely linked to changes in water quality or weeds



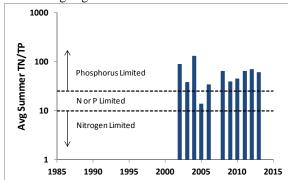
Long Term Trends: Bottom Phosphorus

- Bottom TP slightly higher than surface TP
- Not likely that TP is migrating significantly from bottom to surface



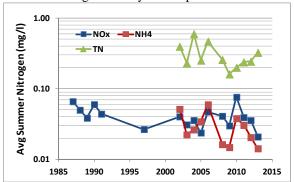
Long Term Trends: N:P Ratio

- No trends apparent
- Most readings indicate phosphorus limits algae growth



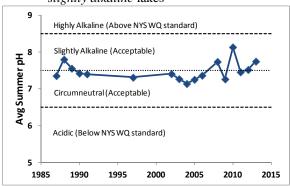
Long Term Trends: Nitrogen

- Recent increase in TN, drop in NH4 & NOx
- Low NOx, ammonia, and total nitrogen readings in nearly all samples



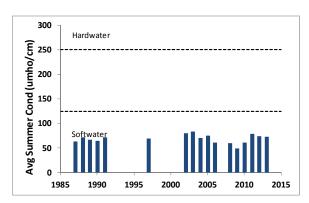
Long Term Trends: pH

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



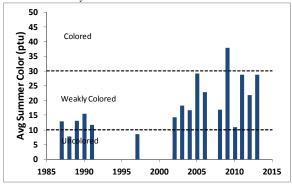
Long Term Trends: Conductivity

- No trends apparent
- Most readings typical of softwater lakes



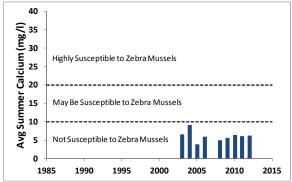
Long Term Trends: Color

- Higher color since 2002 due to lab change
- Most readings typical of *uncolored* to *weakly colored* lakes



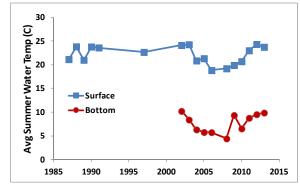
Long Term Trends: Calcium

- No trends apparent
- Most readings indicate low susceptibility to zebra mussels, which are not found in lake



Long Term Trends: Water Temperature

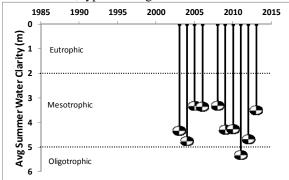
- Recent increase in surface readings
- Low deepwater temperatures indicate strong thermal stratification



Appendix D- Long Term Trends: Schroon Lake-South Basin

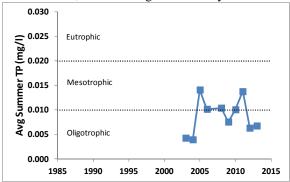
Long Term Trends: Water Clarity

- No trends apparent; slight variability
- Most readings typical of *mesoligotrophic* lakes, typical of algae and TP levels



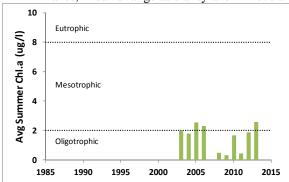
Long Term Trends: Phosphorus

- No long term trend; slightly variable
- Most readings typical of *mesoligotrophic* lakes, similar to algae and clarity levels



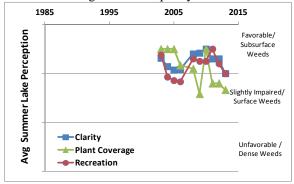
Long Term Trends: Chlorophyll a

- No trends apparent
- Most readings typical of *mesoligotrophic* lakes, in same range as clarity and TP levels



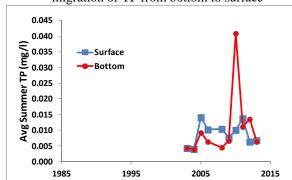
Long Term Trends: Lake Perception

- Slight increase in aquatic plant growth
- Recreational perception more closely linked to changes in water quality than weeds



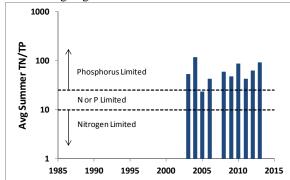
Long Term Trends: Bottom Phosphorus

- Most bottom TP similar to surface TP
- Despite strong thermal layer, likely little migration of TP from bottom to surface



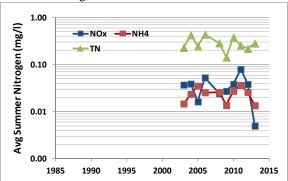
Long Term Trends: N:P Ratio

- No trends apparent
- Most readings indicate phosphorus limits algae growth



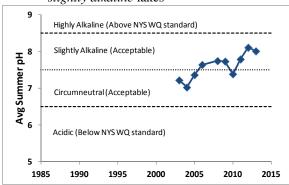
Long Term Trends: Nitrogen

- No trends apparent
- Low NOx, ammonia, and total nitrogen readings



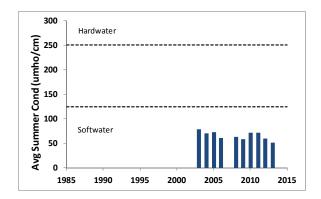
Long Term Trends: pH

- pH increasing since early 2000s
- Most readings typical of *circumneutral* to *slightly alkaline* lakes



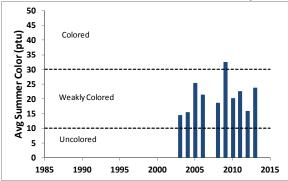
Long Term Trends: Conductivity

- No trends apparent
- Most readings typical of *softwater* lakes



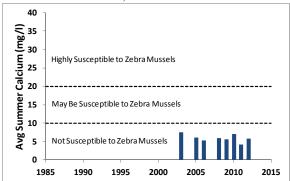
Long Term Trends: Color

- No trends apparent
- Most readings typical of *weakly colored* lakes, but shouldn't affect water clarity



Long Term Trends: Calcium

- No trends apparent
- Most readings indicate low susceptibility to zebra mussels, which are not found in lake



Long Term Trends: Water Temperature

- No trends apparent in surface temperatures
- Low deepwater temperatures indicate strong thermal stratification

