CSLAP 2011 Lake Water Quality Summary: Findley Lake

General Lake Information

Location Town of Findley Lake

County Chautauqua Allegheny River

Size 124.3 hectares (307.0 acres)

Lake Origins Natural

Watershed Area 1,240 hectares (3,063 acres)

Retention Time0.5 yearsMean Depth3.3 metersSounding Depth11.7 metersPublic Access?cartop launch

Major Tributaries West Branch French Creek

Lake Tributary To... Findley Lake outlet to West Branch French Creek to

Allegheny River

WQ Classification B (contact recreation = swimming)

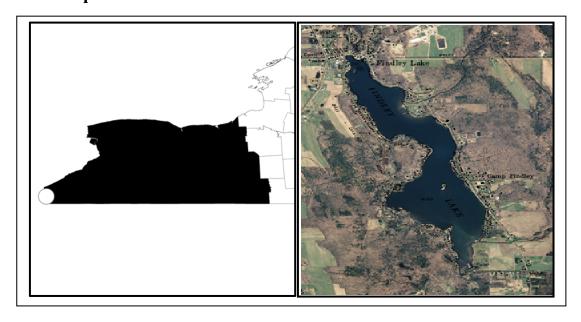
Lake Outlet Latitude 42.119 **Lake Outlet Longitude** -79.734

Sampling Years 1986-2000, 2003-2011

2011 Samplers Ed Mulkearn, Dennis Brumagin, Joseph Siperstein, Rick Vonk

Main Contact Don Keppel

Lake Map



Background

Findley Lake is a 307 acre, class B lake found in the Town of Findley Lake in Chautauqua County, in western New York State. It has first sampled as part of CSLAP in 1986.

It is one of three CSLAP lakes among the more than 15 lakes found in Chautauqua County, and one of nine CSLAP lakes among the more than 50 lakes and ponds in the Allegheny/Chemung River drainage basins.

Lake Uses

Findley Lake is a Class B lake; this means that the best intended use for the lake is for contact recreation—swimming and bathing, non-contact recreation—boating, aquatic life, and aesthetics. The lake is used by lake residents and visitors for swimming, power boating and other recreation via shoreline properties and a cartop boat launch.

It is not known by the report authors if private fish stocking occurs in Findley Lake. The state usually stocks about 1000 9 to 10 inch tiger muskellunge in the lake, and about 5500 four inch walleye were stocked several years ago. Fish species in the lake include bluegill, carp, muskellunge, northern pike, smallmouth bass, pumpkinseed sunfish, walleye, and yellow perch.

General statewide fishing regulations are applicable in Findley Lake. In addition, open season on walleye lasts from the 1st Saturday in May through March 15, with an 18 inch size limit and a take limit of three fish. Ice fishing is allowed.

Historical Water Quality Data

CSLAP sampling was conducted on Findley Lake from 1986 to 2000, and 2003 to 2011. The CSLAP reports for each of the past several years can be found on the NYSFOLA website at http://nysfola.mylaketown.com. The 2009 and 2010 CSLAP reports for Findley Lake can also be found on the NYSDEC web page at http://www.dec.ny.gov/lands/77881.html.

Findley Lake was sampled by the NYSDEC as part of the state ambient lake monitoring program (referred to as the LCI, or Lake Classification and Inventory Survey) in 1976 and 1985. These sampling programs indicated water quality conditions that were probably similar to those measured through CSLAP- the lake was less productive in 1985 (with nutrient and clarity readings similar to those measured in 2003 and 2004), and more productive in 1976. Conductivity readings have steadily increased from the 1970s sampling to the present day, but this has also occurred in most NYS lakes, and at present the increase in conductivity has not been connected to any other water quality changes.

Findley Lake was also sampled in 1937 as part of the Conservation Department (predecessor to the NYSDEC) Biological Survey of the Allegheny River basin. This survey showed slightly higher pH than in the typical CSLAP (or other contemporary monitoring program) sampling season, and oxygen deficits starting at a depth between 15 and 20 feet from the lake surface. The field notes for the 1937 survey included the following:

"This, the westernmost lake in New York State, is a very irregularly shaped body of water with numerous shallow bays and several islands. The level is maintained by a dam at the north end. A large part of the south end is a shallow area with flat bottom covered with a thick growth of hornwort, waterweed, and Robbins pondweed. These plants cover almost the entire bottom and

apparently have been the most successful invaders of what was once a wooded area, as evidenced by the numerous large submerged stumps. In this same weed bed are found many plants of the broad-leaved pondweed (P.amplifolius), of najad and bladderwort, as well as the ubiquitous waterlilies and water shield. Along the marshy shore, at the south end of the lake, are extensive marshes of cattail and large floating masses of water smartweed. Other large weed beds were found at the north end of the lake and along the east side.

Findley Lake has very poor bottom chemical conditions in the face of which it will be difficult if not impossible to improve production by stocking alone. To form the present lake, an 8-foot dam was built across the outlet of two small ponds. The total area of the two ponds was slightly more than half the area of the new lake. As a result about one-half of Findley Lake is less than 10 feet deep. Within recent years this shallow area has become quite completely choked with vegetation. During the summer this vegetation becomes so dense that only the tops are alive. In the lower levels where sufficient light fails to penetrate, the vegetation is dead or dying. While green plants normally aerate the water, here so little of the plant actually is green that stagnant conditions prevail on the bottom. It is not unusual for algal and rooted aquatic plant growths to become sufficiently unpleasant although these growths seldom become sufficiently abundant to affect fish life adversely. The conditions in Findley Lake, however, leads one to conclude that vegetation may become so abundant as to be detrimental to fishing and fish production....

Bottom samples of water taken among the vegetation at a depth of 8 feet had only 0.4 parts per million of oxygen. In contrast to this in deeper water where vegetation is lacking and where surface winds can mix the water more completely, at a depth of 14 feet there were 3.96 parts per million of oxygen at one station. At this same station below the plane of the 14-foot contour or in that areas not greatly affected by surface winds, the oxygen dropped from 0.84 parts per million at 15 feet to 0.0 parts per million on the bottom at 31 feet. From this it can be seen that among the vegetation the oxygen is less at 8 feet than at almost twice the depth where the oxygen is lacking. The bottom chemical conditions were inadequate for fish needs. A probably contributing factor is the nature of the bottom. Most of the area flooded when the dam was built was low, muck land that in earlier times had probably been covered by natural ponds.

To remedy the condition here will not be easy. Weed elimination by chemical methods is out of the question for the present since so far as is known, chemicals sufficiently strong to eliminate rooted vegetation on a large scale would kill all fish life. Algal blooms in water supply reservoirs are controlled by chemical means but here it probably could not be done without some harmful effect to fish life. Mechanical methods are the only safe means of removing rooted aquatic plants, laborious as the task may be. Wood saws or rakes may be used for the purpose but it should be pointed out that the weeds should be completely removed after they are cut for two reasons: (1) if left in the water to decompose and use up oxygen, the main purpose of their destruction would be defeated and (2) since many aquatic plants reproduce asexually, more cutting is not sufficient to stop their growth or to prevent them from spreading into other suitable areas. The process would have to be repeated as often as necessary"

There are no Findley Lake tributary sites monitored through the NYSDEC Rotating Intensive Basins (RIBS) program. The major tributary to the lake is the West Branch of French Creek, which has not been sampled through any statewide monitoring programs.

Fisheries monitoring was also conducted in at least 1988 and 1989 in support of the state stocking program. Water clarity readings were within the range found through CSLAP, but the conductivity readings in CSLAP were higher than those measured through the fisheries monitoring program.

Lake Association and Management History

Findley Lake is served by the Findley Lake Watershed Foundation. The lake association is involved in a variety of lake management activities, including:

- Water level control
- shoreline stabilization of the Nature Center's small island
- ownership and operation of the weed harvester
- depositing navigation buoys in the lake
- overseeing the lake fishery
 The Findley Lake Watershed Foundation maintains a website at http://www.flwf.org/.

Summary of 2011 CSLAP Sampling Results

Evaluation of 2011 Annual and Monthly Results Relative to 2006-2010

The Lake Condition Summary Table below and Appendix B compare annual and monthly results from 2011 to those measured in previous CSLAP sampling seasons. The pertinent deviations from normal conditions are discussed below.

Evaluation of Eutrophication Indicators

Evaluation of the 2011 CSLAP data is limited by the lack of water quality data, including no samples collected in June and August. Secchi disk transparency readings were higher than normal and have increased slightly in recent years, despite the lack of short- or long-term changes in chlorophyll a or total phosphorus. Lake productivity increases substantially during the summer, but there was not enough data in 2011 to verify this seasonal trend. The lake can be characterized as *eutrophic*, or highly productive, based on total phosphorus, water clarity, and chlorophyll a readings (all typical of *eutrophic* lakes). The trophic state indices (TSI) evaluation suggests that chlorophyll a readings are higher than expected given the total phosphorus readings in the lake, and water clarity readings were higher than expected in 2011. This suggests that the lake may be susceptible to algal blooms with small increases in nutrient readings. Overall trophic conditions are summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Potable Water Indicators

Algae levels may be sufficiently high 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, but the lake is not used for drinking water. Hypolimnetic phosphorus and ammonia readings in Findley Lake are higher than those measured at the lake surface. This suggests that deepwater intakes may be compromised for any "unofficial" potable water use. Potable water conditions, at least as measurable through CSLAP, are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Limnological Indicators

Color readings were higher than normal in 2011, and NOx, ammonia and conductivity readings were lower than normal. The higher color readings were also measured in many other CSLAP

lakes (perhaps due to recent wetter weather or the change in laboratories in 2002), and has been part of a long-term trend. None of the other water quality indicators has exhibited any clear long-term trends, and it is likely that the small changes in each of the limnological indicators have been within the normal range of variability in the lake. Overall limnological conditions are summarized in the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Biological Condition

The 1992 phytoplankton survey showed slightly lower algal biomass than expected given the chlorophyll *a* readings in the lake, and the algal community was dominated by golden brown algae, diatoms, and blue green algae. It is not known if this community composition is typical of the lake, given the relatively low algal biomass relative to the typical chlorophyll *a* readings in the lake.

Macrophyte surveys conducted through CSLAP identified at least 16 aquatic plant species, and at least two exotic plant species (*Myriophyllum spicatum*, Eurasian watermilfoil, and *Potamogeton crispus*, curly-leafed pondweed) have been found in the lake. The modified floristic quality index (FQI) data indicate that the quality of the aquatic plant community is "fair."

The composition of the fish community includes a mix of coolwater (at least four species) and warmwater (at least five species) fish species. The lake fishery can likely be described as coolwater.

Zooplankton and macroinvertebrate surveys have not been conducted through CSLAP at Findley Lake.

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

Evaluation of Lake Perception

Recreational assessments were more favorable than normal in 2011, consistent with higher water clarity and more favorable water quality assessments, and despite more extensive weed coverage. None of these indicators of lake perception has exhibited any clear long-term changes. Lake recreational and water quality assessments degrade during the typical summer, despite the lack of significant seasonal change in aquatic plant coverage, but this could not be verified in 2011 (due to the lack of summer-long data). Overall lake perception is summarized on the Lake Scorecard and Lake Condition Summary Table.

Evaluation of Local Climate Change

Air and water temperature readings in the summer index period were higher than normal in 2011, but temperatures have not exhibited any clear long-term trends. It is not known if this is an indication of the lack of local climate change or if these changes cannot be well evaluated through CSLAP.

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 usually indicate a high susceptibility for harmful algal blooms (HABs). An analysis of algae

bloom samples indicate microcystin readings well above the levels needed to support safe swimming, although open water microcystin readings were below this threshold.

Lake Condition Summary

Category	Indicator	Min	08-11 Avg	Max	2011 Avg	Classification	2011 Change?	Long-term Change?
Eutrophication ndicators	Water Clarity	0.33	1.71	5.35	3.42	Eutrophic	Higher than Normal	Increasing Slightly
	Chlorophyll a	0.20	30.24	274.0	18.20	Eutrophic	Within Normal Range	No Change
	Total Phosphorus	0.005	0.035	0.082	0.034	Eutrophic	Within Normal Range	No Change
Potable Water ndicators	Hypolimnetic NH4	0.00	0.48	1.91	1.39	Elevated Deepwater NH4	Higher than Normal	Not known
	Hypolimnetic As					Not measured through CSLAP		
	Hypolimnetic Iron		·			Not measured through CSLAP		
	Hypolimnetic Mn					Not measured through CSLAP		
imnological ndicators	Hypolimnetic TP	0.003	0.186	0.960	0.300	Elevated Deepwater TP	Higher than Normal	Not known
	Nitrate + Nitrite	0.00	0.03	0.38	0.01	Low NOx	Lower Than Normal	No Change
	Ammonia	0.00	0.03	0.16	0.02	Low Ammonia	Lower Than Normal	No Change
	Total Nitrogen	0.16	0.55	1.49	0.72	Intermediate Total Nitrogen	Within Normal Range	No Change
	рН	6.82	7.99	9.05	8.01	Alkaline	Within Normal Range	No Change
	Specific Conductance	124	209	270	173	Intermediate Hardness	Lower Than Normal	No Change
	True Color	2	16	222	36	Intermediate Color	Higher than Normal	Increasing Signficantly
	Calcium	19.4	27.0	33.2	29.9	Highly Susceptible to Zebra Mussels	Within Normal Range	No Change
ake erception	WQ Assessment	1	2.7	5	2.0	Definite Algal Greenness	More Favorable Than Normal	No Change
	Plant Coverage	1	2.4	4	3.0	Subsurface Plant Growth	Less Favorable than Normal	No Change
	Rec. Assessment	1	3.0	4	1.0	Slightly Impaired	More Favorable Than Normal	No Change
Biological Condition	Phytoplankton					Algal community comprised of golden brown algae, diatoms, cyanobacteria	Not known	Not known
	Macrophytes					Fair quality of the aquatic plant community	Not known	Not known
	Zooplankton					Not evaluated through CSLAP	Not known	Not known
	Macroinvertebrates					Not evaluated through CSLAP	Not known	Not known
	Fish					Coolwater fishery	Not known	Not known
	Invasive Species					Eurasian watermilfoil, curly leafed pondweed	Not known	Not known
ocal Climate	Air Temperature	9	22.9	36	29.0		Higher Than Normal	No Change
hange	Water Temperature	12	22.7	28	27.0		Higher Than Normal	No Change
armful Algal looms	Open Water Phycocyanin	12	459	1291	283	Nearly all readings indicate high risk of BGA	Not known	Not known
	Open Water Microcystis	0.2	0.7	1.2		All readings indicate low lakewide toxins	Not known	Not known
	Shoreline Phycocyanin	470	288762	2e06		Shoreline BGA blooms common	Not known	Not known
S	Shoreline Microcystis	0.7	20.7	126.7		Shoreline bloom toxins regularly above drinking water and swimming criteria	Not known	Not known
	Other Toxins					No anatoxin-a and cylindrospermposin data	Not known	Not known

Evaluation of Lake Condition Impacts to Lake Uses

Findley Lake is presently among the lakes listed on the 2007 Allegany River drainage basin Priority Waterbody List (PWL), with public bathing and recreation listed as *impaired* due to excessive nutrients, algae and weeds, and reduced water clarity. Aquatic life was listed as *stressed* due to hypolimnetic dissolved oxygen depletion. The PWL listing for Findley Lake is listed in Appendix C.

Potable Water (Drinking Water)

The CSLAP dataset at Findley Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, is inadequate to evaluate the use of the lake for potable water, and the lake is not used for this purpose. Algae levels may be high enough in the surface waters, and ammonia may be high enough in bottom waters to impact any "unofficial" use of the lake for potable water.

Contact Recreation (Swimming)

The CSLAP dataset at Findley Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggests that swimming and contact recreation may be *impaired* by excessive algae, poor water clarity, and the potential for harmful algal blooms, although 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 Findley Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that non-contact recreation is *stressed* by excessive weeds and the presence of Eurasian watermilfoil and curly leafed pondweed, although recreational use impacts from excessive weeds were not apparent in 2010 or 2011.

Aquatic Life

The CSLAP dataset on Findley Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aquatic life may be *stressed* by hypolimnetic oxygen depletion, invasive plants, and *threatened* by elevated pH, although additional data are needed to evaluate the food and habitat conditions for aquatic organisms in the lake.

Aesthetics

The CSLAP dataset on Findley Lake, including water chemistry data, physical measurements, and volunteer samplers' perception data, suggest that aesthetics may be *stressed* by excessive algae and weeds, and by frequent reports that the lake "looks bad."

Fish Consumption

There are no fish consumption advisories posted for Findley Lake.

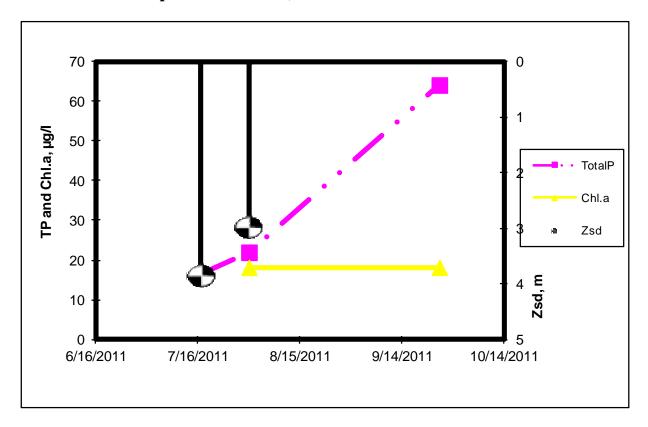
Additional Comments and Recommendations

Findley Lake may be a good candidate for future biomonitoring to evaluate the impact of the aquatic plant management actions and water quality problems in the lake. The lake association should resume collection of season-long biweekly samples to improve lake evaluations.

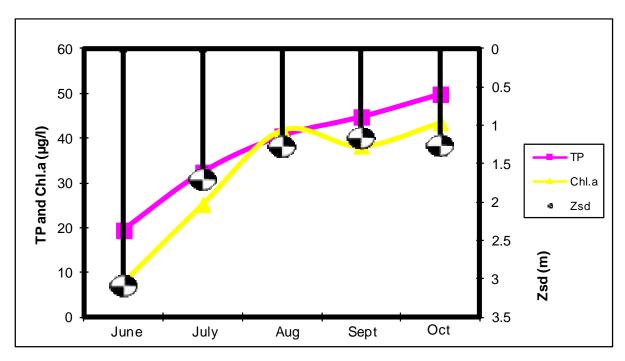
Aquatic Plant IDs-2011

None submitted for identification.

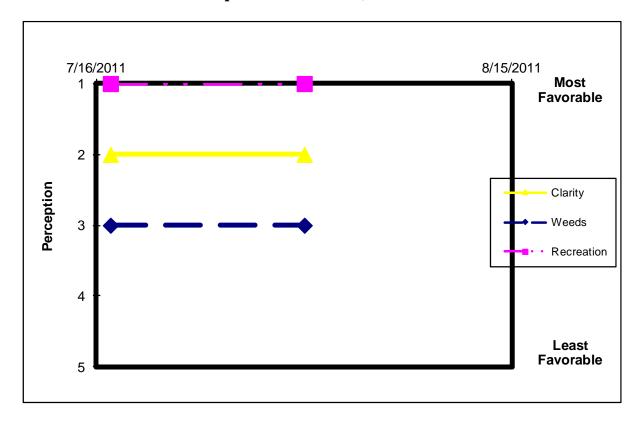
Time Series: Trophic Indicators, 2011



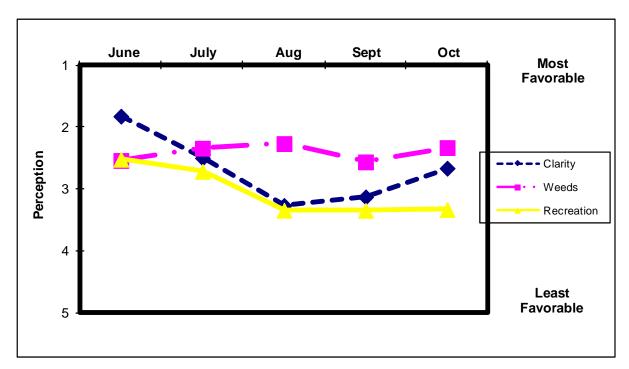
Time Series: Trophic Indicators, Typical Year (1986-2011)



Time Series: Lake Perception Indicators, 2011



Time Series: Lake Perception Indicators, Typical Year (1986-2011)



Appendix A- CSLAP Water Quality Sampling Results for Findley Lake

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	рН	Cond25	Ca	Chl.a
24	Findley L	6/15/1986	11.5	3.00	1.5	0.026	0.12				5	6.92	190		2.22
24	Findley L	6/21/1986	11.5	3.13	1.5	0.013	0.11				5	7.50	180		2.29
24	Findley L	6/29/1986	11.5	2.25	1.5	0.011	0.09				10	7.62	185		2.00
24	Findley L	7/3/1986	11.5	2.75	1.5	0.022	0.11				15	7.82	194		0.80
24	Findley L	7/11/1986	11.5	2.00	1.5	0.021	0.03				2	7.84	185		5.03
24	Findley L	7/18/1986	11.5	1.50	1.5	0.030	0.06				5	8.38	194		
24	Findley L	7/24/1986	11.5	2.63											
24	Findley L	8/1/1986	11.5	1.63	1.5	0.028	0.03				14	8.05	197		
24	Findley L	8/5/1986	11.5	1.13	1.5	0.018	0.03				11	7.75	191		53.30
24	Findley L	8/12/1986			1.5	0.023	0.03				13	8.15	199		15.30
24	Findley L	8/16/1986	11.5	0.75	1.5	0.035	0.03				12	8.98	195		36.30
24	Findley L	8/21/1986	11.5	0.63	1.5	0.037	0.03				15	8.12	198		40.00
24	Findley L	8/30/1986	11.5	1.00	1.5	0.034	0.03				3	7.60	205		29.60
24	Findley L	9/5/1986	11.5	0.75	1.5	0.033	0.03				3	8.17	206		25.90
24	Findley L	9/14/1986	11.5	0.63	1.5	0.036	0.03				13	7.55	215		22.20
24	Findley L	9/21/1986	11.5	0.75	1.5	0.039	0.03				8	7.29	214		34.00
24	Findley L	6/8/1987	11.5	2.75	1.5	0.023	0.03				15	8.10	201		01.00
24	Findley L	6/14/1987	11.5	3.00	1.5	0.018	0.00				12	8.22	198		
24	Findley L	6/21/1987	11.5	2.00	1.5	0.023	0.01				15	7.83	203		17.00
24	Findley L	6/28/1987	11.8	1.25	1.5	0.021	0.01				15	7.76	202		37.70
24	Findley L	7/5/1987	11.8	0.75	1.5	0.021	0.01				11	7.70	206		37.70
24	Findley L	7/12/1987	11.5	0.63	1.5	0.032	0.01				11	7.86	206		116.00
24	Findley L	7/19/1987	11.5	0.03	1.5	0.033	0.01				15	7.49	206		109.00
24	Findley L	7/26/1987	11.5	1.00	1.5	0.052	0.01				13	7.63	209		45.10
24	Findley L	7/30/1987	11.5	0.75	1.5	0.052					12	7.38	210		73.30
24	Findley L						0.04				7				
	Findley L	8/9/1987	11.5	0.75	1.5	0.042	0.01					7.33	208		116.00
24	Findley L	8/16/1987	11.5	0.50	1.5	0.060	0.04				6	7.14	216		274.00
24	Findley L	8/23/1987	11.5	0.75	1.5	0.054	0.01				10	7.42	208		70.00
24	Findley L	8/30/1987	11.5	0.75	1.5	0.052	0.47				12	7.46	204		73.00
24	Findley L	9/6/1987	11.5	0.75	1.5	0.059	0.17				8	7.36	221		99.00
24	Findley L	10/1/1987	11.5	0.75	1.5	0.049	0.03				11	7.30	215		73.20
24	Findley L	6/21/1988	12.0	2.25	1.5	0.022	0.01				8	7.72	213		17.50
24	Findley L	6/28/1988	11.5		1.5	0.022	0.01				7	7.77	219		10.10
24	Findley L	7/5/1988	11.5	1.50	1.5	0.020	0.01				9	8.10	220		10.40
24	Findley L	7/12/1988	11.0	1.00	1.5	0.023	0.01				11	8.19	234		
24	Findley L	7/19/1988	11.5	1.00	1.5	0.025	0.01				7	8.31	223		20.70
24	Findley L	7/26/1988	12.0	1.50	1.5	0.029	0.01				10	7.71	221		1.78
24	Findley L	7/31/1988	11.5	1.25	1.5	0.031	0.01				10	8.10	223		17.80
24	Findley L	8/8/1988	11.5	1.00	1.5	0.037	0.01				11	7.97	219		31.10
24	Findley L	8/12/1988	11.5	0.75	1.5	0.042	0.01				10	7.96	221		52.50
24	Findley L	8/21/1988	11.8	0.75	1.5	0.042	0.01				6	8.32	227		49.60
24	Findley L	8/30/1988	11.5	2.25	1.5	0.032	0.02				11	7.97	227		10.10
24	Findley L	9/6/1988	11.3	1.75	1.5	0.037	0.03				14	7.86	227		18.50
24		9/12/1988	11.5			0.035					12	7.95	229		24.40
24	Findley L	9/19/1988	11.8		1.5	0.040	0.01				8	8.09	230		38.50
24	Findley L	9/25/1988	11.8		1.5	0.039	0.01				6	8.27	227		30.30
24	Findley L	6/26/1989	11.0		1.5	0.017	0.14				7	7.94	198		2.16
24	Findley L	7/2/1989	11.0		1.5	0.015					12	7.98	199		18.50
24	Findley L	7/9/1989		2.25	1.5	0.022					15	7.76	204		6.45
24	Findley L	7/16/1989	11.5		1.5	0.020					11	7.85	210		6.18
24	Findley L	7/27/1989	11.5		1.5	0.025					10	8.13	200		9.77
24	Findley L	7/31/1989	11.0		1.5	0.026					8	7.82	210		6.36
24	Findley L	8/7/1989	10.5	2.50	1.5	0.029	0.06				8	8.18	214		7.19
24	Findley L	8/14/1989	11.3	2.00	1.5	0.020					7	7.98	211		6.45
24	Findley L	8/20/1989	11.5	2.00	1.5	0.024					2	8.24	212		6.65
24	Findley L	8/29/1989	11.5	2.25	1.5	0.028					2	8.24	208		11.30
24	Findley L	9/11/1989		1.75	1.5	0.025	0.01				5	8.16	211		17.80
24	Findley L	9/25/1989	11.5		1.5	0.029					6	8.18	203		19.60
24	Findley L	10/11/1989	11.0	1.25	1.5	0.038					5	8.16	210		18.50
24	Findley L	7/10/1990	11.5		1.5	0.046	0.01				-	7.95			
24	Findley L	7/17/1990	11.3		1.5	0.037	0.01				13	7.72	209		36.60
24	Findley L	7/31/1990	11.5		1.5	0.048	0.01				10	7.40	199		57.40
24	Findley L	8/14/1990	11.5		1.5	0.044	5.51				10	7.24	199		45.10
	aioy L	5, 17, 1000		0.01	1.0	J.U-TT		l	!			, <u>.</u>	100		15.10

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24 Findley L 8/16/1999 11.0 0.55 1.5 0.068 0.01 7 7.33 215 45.90 24 Findley L 8/30/1999 11.0 0.85 1.5 0.050 0.01 10 7.85 221 43.80	24				0.71	1.5	0.081	0.01				12	7.36	198		69.00
24 Findley L 8/16/1999 11.0 0.55 1.5 0.068 0.01 7 7.33 215 45.90 24 Findley L 8/30/1999 11.0 0.85 1.5 0.050 0.01 10 7.85 221 43.80				11.0	0.50			0.01				11				
	24	Findley L	8/16/1999	11.0	0.55		0.068	0.01				7		215		45.90
24 Findley L 9/12/1999 11.0 0.68 1.5 0.054 0.01 6 7.21 227 57.00	24	Findley L	8/30/1999	11.0	0.85	1.5	0.050	0.01				10		221		43.80
, , , , , , , , , , , , , , , , , , ,	24	Findley L	9/12/1999	11.0	0.68	1.5	0.054	0.01				6	7.21	227		57.00

LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	рН	Cond25	Ca	Chl.a
24	Findley L	6/19/2000	11.3	2.95	1.5	0.020	0.01	13117	1011	114/11	8	8.18	218	Ou	4.54
24	Findley L	7/10/2000	12.0	2.00	1.5	0.017	0.01				4	7.80	217		7.10
24	Findley L	7/17/2000	11.8	1.85	1.5	0.017	0.01				6	8.36	214		7.85
24	Findley L	7/31/2000	11.0	1.95	1.5	0.023	0.01				4	8.62	210		10.80
24	Findley L	8/14/2000	11.5	1.22	1.5	0.028	0.01				6	7.38	208		22.20
24	Findley L	8/28/2000	11.5	1.13	1.5	0.042	0.01				8	8.20	210		42.10
24	Findley L	9/11/2000	11.0	1.09	1.5	0.038	0.01				9	8.04	215		28.20
24	Findley L	9/25/2000	11.8	2.25	1.5	0.023	0.04				8	8.09	222		6.95
24	Findley L	06/15/03	8.3	5.35		0.011	0.09	0.03	0.36	72.66	7	7.95	245	31.0	2.46
24	Findley L	06/29/03	11.5	4.15		0.005	0.04	0.02	0.30	126.92	6	8.33	251		7.79
24	Findley L	07/13/03	11.1	1.95		0.017	0.02	0.00	0.23	29.22	10	8.52	242		1.09
24	Findley L	07/28/03	10.9	2.00		0.021	0.01	0.02	0.16	17.06	9	8.33	233		3.33
24	Findley L	08/10/03	8.7	3.05		0.018	0.03	0.04	0.59	72.43	20	8.32	229	29.0	3.35
24	Findley L	08/24/03	9.0	2.00		0.027	0.00	0.01	0.41	34.02	45	8.50	223		5.90
24	Findley L	09/07/03	10.1	1.90		0.025	0.03	0.03			43	8.42	218		32.94
24	Findley L	09/21/03	11.1	1.15		0.032	0.02	0.04	0.37	25.80	46	8.26	227		4.99
24	Findley L	6/13/2004	13.0	3.00		0.017	0.05	0.01	0.27	35.32	20	7.01	241	23.8	0.61
24	Findley L	6/27/2004	10.3	3.20		0.017	0.01	0.01	0.32	40.64	20	7.34	233		2.70
24	Findley L	7/18/2004	11.0	1.70		0.029	0.25	0.02	1.36	103.10	10	8.20	211		29.20
24	Findley L	8/15/2004		1.20	0.6	0.000	0.01	0.02	0.46		13	7.14	214		10.60
24	Findley L	9/18/2005	5.2	0.98	0.6	0.050	0.01	0.02	0.24	10.69	13	7.47	188		20.9
24	Findley L	10/2/2005	11.0	0.95	0.6	0.054	0.03	0.03	0.26	10.50	17	7.81	209		30.0
24	Findley L	6/18/2006	10.0	4.00		0.014	0.05	0.02	0.38	59.33	21	7.99	215	22.1	2.07
24	Findley L	7/17/2006	10.6	3.60		0.017	0.02	0.02	0.46	59.59	7	8.46	267		2.05
24	Findley L	6/30/2007	11.5	2.85		0.030	0.01	0.03	0.39	29.06	25	8.85	177	19.4	6.51
24	Findley L	7/15/2007	10.9	1.80		0.076	0.01	0.05	0.57	16.72	30	8.97			13.20
24	Findley L	7/29/2007	11.3	1.25		0.059	0.06	0.04	0.87	32.83	28	8.98	203		42.30
24	Findley L	8/11/2007	11.2	0.90		0.058	0.03	0.11	0.97	37.03		8.47	226		47.20
24	Findley L	8/25/2007	11.5	0.60		0.056	0.00	0.02	0.99	39.40	96	8.67	183	22.5	3.72
24	Findley L	9/8/2007	11.8	0.78		0.055	0.01	0.03	1.45	58.03	19	8.38	184		50.56
24	Findley L	9/16/2007	11.3	0.88		0.049	0.01	0.16	0.84	37.62	15	7.94	214		35.40
24	Findley L	9/30/2007	11.5	0.90		0.054	0.01	0.02	0.94	38.78	11	7.98	220		46.84
24	Findley L	6/8/2008	11.3	4.10	1.5	0.020	0.05	0.04	0.39	44.20	7	8.11	225	27.7	2.72
24	Findley L	6/16/2008	11.0	4.40	1.0	0.025	0.02	0.02	0.19	17.25	120	7.92	172		0.38
24	Findley L	6/30/2008	11.1	3.00	1.0	0.016	0.09	0.04	0.25	33.72	41	8.42	201		2.16
24	Findley L	7/14/2008	11.0	2.05	1.0	0.021	0.01	0.02	0.28	29.04	16	8.18	193	00.0	5.24
24	Findley L	8/4/2008	11.7	1.30	1.0	0.031	0.00	0.05	0.47	32.84	22	8.47	213	23.8	23.62
24	Findley L	8/11/2008	11.0	1.10	1.0	0.035	0.01	0.05	0.46	28.73 42.78	29 49	8.16	216 166		26.42 66.24
24	Findley L Findley L	9/2/2008 9/23/2008	11.1 11.6	0.65	1.0		0.00	0.06	1.04 0.78	34.53	31	8.47	220		52.76
24	Findley L	06/19/2009	11.6	4.30	1.0 1.5	0.049	0.02	0.00	0.76	41.00	22	8.09	196	28.4	5.42
24	Findley L	07/03/2009	12.0	2.95	1.5	0.016	0.00	0.02	0.30	35.25	33	8.09	158	20.4	1.45
24	Findley L	07/18/2009	10.8	2.70	1.0	0.017	0.04	0.03	0.21	28.55	34	7.60	161		1.43
24		07/31/2009 08/13/2009	11.7		1.0	0.019	0.01	0.04	0.28	33.00 36.93	25 39	7.88	154 166	30.3	10.51 5.70
24	Findley L	08/30/2009		1.45	1.5	0.019	0.03	0.02	0.32	24.42	28	7.69	208	50.5	18.00
24	Findley L				1.5	0.029	0.01	0.05	0.32	35.19	37	7.03	166		23.80
24	Findley L	09/07/2009	grab		1.0	5.000	0.00	0.00	0.40	55.15	- 01	7.00	100		20.00
24	Findley L	09/18/2009	11.0	1.65	1.5	0.028	0.01	0.04	0.49	38.60	53	6.82	181		3.00
24	Findley L	6/4/2010			1.0	0.028	0.01	0.04	0.43	41.69	28	8.19	222	29.9	0.20
24	Findley L	6/17/2010	11.1	3.65	1.0	0.017	0.01	0.03	0.51	65.36	16	8.43	270	_0.0	4.80
24	Findley L	7/1/2010	10.8	2.65	1.0	0.020	0.01	0.02	0.35	38.50	16	8.38	218		5.20
24	Findley L	7/25/2010	11.4	0.90	1.0	0.043	0.01	0.03	0.60	30.48	104	8.46	202		10.60
24	Findley L	8/1/2010	11.5	0.85	1.0	0.044	0.01	0.03	0.88	43.50	49	8.97	211	33.2	35.30
24	Findley L	8/1/2010	grab	HAB						2.30	· · · ·				
24	Findley L	8/4/2010	•	HAB											
24	Findley L	8/4/2010)	HAB											
24	Findley L	8/8/2010	11.7	0.80	1.0	0.051	0.01	0.03			20	8.30	221		30.40
24	Findley L	8/25/2010													
24	Findley L	8/25/2010													
24	Findley L	8/25/2010													
24	Findley L	8/29/2010	11.6		1.0	0.069	0.02	0.04	1.16	36.97	222	8.29	251		67.40
24	Findley L	9/23/2010	11.7	0.70	1.0	0.073	0.05	0.05	1.13	34.32	55	7.57	242		54.60
24	Findley L	9/25/2010								·					-
24	Findley L	7/17/2011	11.4	3.85		0.016	0.01	0.01	0.30	39.98	17	8.43	204	29.9	
24	Findley L	7/31/2011		2.98		0.022	0.01	0.02	0.36	35.90	28	7.69	124		18.20
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LNum	PName	Date	Zbot	Zsd	Zsamp	Tot.P	NO3	NH4	TDN	TN/TP	TColor	рН	Cond25	Ca	Chl.a
24	Findley L	9/25/2011				0.064	0.01	0.05	1.49	51.17	64	7.92	189		18.20
24	Findley L	6/22/1998			10.0	0.211	0.0.	0.00		0	<u> </u>				10.20
24	Findley L	7/20/1998			10.0	0.465									
24	Findley L	8/17/1998				0.618									
24	Findley L	9/14/1998				0.960									
24	Findley L	06/15/03				0.012	0.11	0.08	0.28	23.33					
24	Findley L	06/29/03				0.008	0.02	0.02	0.31	37.80					
24	Findley L	07/13/03				0.017	0.04	0.06	0.36	21.19					
24	Findley L	07/28/03				0.018	0.00	0.00	0.05	2.50					
24	Findley L	08/10/03				0.003	0.06	0.03	0.63	186.11					
24	Findley L	08/24/03				0.017	0.00	0.01	0.43	25.40					
24	Findley L	09/07/03				0.025	0.03	0.01							
24	Findley L	09/21/03				0.028	0.01	0.01	0.37	13.42					
24	Findley L	6/13/2004				0.036	0.07	0.02	0.50	13.87					
24	Findley L	6/30/2007	11.5			0.140									
24	Findley L	7/15/2007	10.9			0.070									
24	Findley L	7/29/2007	11.3			0.154									
24	Findley L	8/11/2007	11.2			0.199									
24	Findley L	8/25/2007	11.5			0.192									
24	Findley L	9/8/2007	11.8			0.045									
24	Findley L	9/16/2007	11.3			0.242									
24	Findley L	9/30/2007	11.5			0.565									
24	Findley L	6/8/2008	11.3		10.0	0.029									
24	Findley L	6/16/2008	11.0		10.0	0.072									
24	Findley L	6/30/2008	11.1		10.0	0.019									
24	Findley L	7/14/2008	11.0		10.0	0.038									
24	Findley L	8/4/2008	11.7		10.0	0.106									
24	Findley L	8/11/2008	11.0		9.0	0.092									
24	Findley L	9/2/2008	11.1		10.1	0.477									
24	Findley L	9/23/2008	11.6		10.0	0.416									
24	Findley L				10.0	0.038		0.40							
24	Findley L	07/03/2009				0.145		0.66							
24	Findley L	07/18/2009			9.5	0.009		0.51							
24	Findley L	07/31/2009			10.0	0.180		0.72							
24	Findley L	08/13/2009			10.0	0.220		0.03							
24	Findley L	08/30/2009			9.5	0.276		1.41							
24	Findley L	09/07/2009			10.0	0.150		1.44							
24	Findley L	09/18/2009			10.0	0.366		1.09							
24	Findley L	6/4/2010	11.6		10.0	0.033		0.33							
24	Findley L	6/17/2010	11.1		10.0	0.037		0.34							
24	Findley L	7/1/2010	10.8		9.0	0.033		0.14							
24	Findley L	7/25/2010	11.4		10.0	0.247		0.78							
24	Findley L	8/1/2010	11.5		10.0	0.194		0.67							
24	Findley L	8/8/2010	11.7		10.0	0.244		0.57							
24	Findley L	8/29/2010	11.6		10.0	0.272		0.95							
24	Findley L	9/23/2010	11.7		10.0	0.190		1.39							
24	Findley L	7/17/2011	11.4		11.0	0.321		1.22							
24	Findley L	7/31/2011			11.3	0.095		1.04							
24	Findley L	9/25/2011				0.484		1.91							

LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-	AQ-	MC-	Anato	
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24	Findley L		epi	18	19											
24		6/21/1986	epi	23	20											
24	Findley L		epi	22	21											
24	Findley L		ері	15	20											
24	Findley L		ері	15	20											
24	Findley L		ері	30	24											
24	Findley L		ері	30	25											
24	Findley L		epi	26	24											
24	Findley L		ері	26	25											
24	Findley L		epi	24	24											
24	Findley L		ері	26	25											
24	Findley L		epi	20	19											
24	Findley L		epi	21	20											
24	Findley L		epi	14	19											
24	Findley L		epi	17	18											
24	Findley L		epi	22	24											
24	Findley L		epi	25	22											
24	Findley L		epi	27	25			ļ								
24	Findley L		epi	19	23											
24	Findley L		epi	23	23											
24	Findley L		epi	30	27			ļ								
24	Findley L		epi	27	26											
24	Findley L		epi	24	27			ļ								
24	Findley L		epi	25	27			ļ								
24	Findley L		epi	24	24			ļ								
24	Findley L		epi	27	27			ļ								
24	Findley L		epi	18	22											
24	Findley L		epi	21	20											
24	Findley L		epi	19	19											
24	Findley L	10/1/1987	epi	14	17											
24	Findley L		epi	25	24											
24	Findley L		epi	20	24											
24	Findley L		epi	29	25 27											-
24 24	Findley L		epi	28												-
24	Findley L Findley L		epi	26 26	28 25											-
24	Findley L		epi	24	26											-
24	Findley L		epi epi	27	28											
24		8/12/1988	-	26	27											
24	Findley L		epi epi	20	25											
24	Findley L		epi	18	23											
24	Findley L		ері	15	20											
24		9/12/1988	ері	24	20											
24	Findley L		ері	24	20											
24	,	9/25/1988	epi	24	18			 							 	
24		6/26/1989	epi	29	27			1								\vdash
24	Findley L		ері	22	23										1	\vdash
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24	Findley L		ері	27	25										1	\vdash
24	Findley L		epi	21	24										<u> </u>	
24	Findley L		ері	17	23										<u> </u>	
24	Findley L		ері	24	22										<u> </u>	
24		8/20/1989	epi	20	23										<u> </u>	
24	Findley L		epi	26	24											
24	Findley L		ері	21	22			†								
24	Findley L		epi	14	16			†								
24		10/11/1989	epi	11	12											
24		7/10/1990	epi	22	23											
24	Findley L		ері	25	23											
24	Findley L		epi	21	24											
24	Findley L		epi	22	23											
24	Findley L		ері	23	23											
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24 Findley L 0725/1990 epi 14 15 15 24 Findley L 10710/1990 epi 21 16 16 16 17 22 24 Findley L 0727/1991 epi 26 27 27 28 28 29 24 25 25 27 28 28 28 29 29 29 20 20 22 24 24 24 25 25 25 28 28 28 28 28	LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ- PC	AQ- Chla	MC- LR	Anato	Cyclin
244 Findley L. 78/21991 ep 24 23	24	Findley L	9/25/1990	ері	14	15								0		7 0	<i>-</i>
244 Findley L 8/19/1991 ept 23 24 24 24 24 24 24 24	24	Findley L	10/10/1990	epi	21	16											
244 Findley L 8/191991 epi 20 22 .				epi													
24 Findley L 94/1991 epi 20 22																	
24 Findley L 97/18/19/19 ep 19 17 .																	
24 Findley L 10/11/1991 epi 19 17																	
244 Findley L 6/29/1992 epi 22 23 3 2 3 1																	
244 Findley L 71/18/1992 epi 22 23 3 2 3 14							2	2	2	1							
244 Findley L 8/11/1992 epi 23 24																	
244 Findley L 8328/1992 epi 20 18 2 2 2 5 5							3		3	14							
24 Findley L 9/28/1992 epi 20 18 2 2 2 5 5							3	2	2	15							
24 Findley L 10/10/1992 epi 14 15 2 3 3 3 5																	
24 Findley L 7/6/1993 epi 26 25 3 2 2 2 2 4 4 4 25 4 4 4 25 4 4 4 25 4 4 4 4 4 4 4 4 4	24									5							
24 Findley L 8/3/1993 epi 24 23 3 2 3 1	24			epi	26	25	3	2	2								
24 Findley L 9/21/19/33 epi 27 26 3 3 4 123 24 Findley L 10/4/19/33 epi 17 14 3 3 4 125 24 Findley L 10/4/19/34 epi 31 23 2 2 2 25 Findley L 7/5/19/34 epi 37 23 2 2 2 24 Findley L 7/5/19/34 epi 27 24 2 2 3 56 24 Findley L 7/5/19/34 epi 27 24 2 2 3 56 24 Findley L 8/5/19/34 epi 27 24 2 2 3 56 25 Findley L 8/5/19/34 epi 27 24 2 2 3 56 24 Findley L 8/5/19/34 epi 19 20 4 2 3 134 24 Findley L 9/5/19/34 epi 19 20 4 2 3 134 24 Findley L 6/5/19/35 epi 25 22 2 2 2 2 24 Findley L 6/5/19/35 epi 25 22 2 2 2 2 24 Findley L 7/17/19/35 epi 30 27 3 2 4 14 24 Findley L 7/17/19/35 epi 23 23 3 3 3 15 24 Findley L 7/17/19/35 epi 28 27 3 2 3 14 24 Findley L 7/17/19/35 epi 30 28 3 3 3 134 24 Findley L 7/17/19/36 epi 27 25 2 2 3 3 14 24 Findley L 7/17/19/36 epi 30 28 3 3 3 3 3 3 24 Findley L 7/17/19/36 epi 30 28 3 3 3 3 3 24 Findley L 7/17/19/36 epi 30 28 3 3 3 3 3 24 Findley L 7/17/19/36 epi 32 25 2 2 3 3 4 24 Findley L 7/17/19/36 epi 32 25 2 2 3 3 4 24 Findley L 7/17/19/36 epi 32 25 2 2 3 3 4 24 Findley L 7/17/19/36 epi 32 25 2 2 3 3 24 Findley L 7/17/19/36 epi 27 25 2 2 3 3 4 24 Findley L 7/17/19/36 epi 27 25 2 2 3 2 24 Findley L 8/27/19/36 epi 27 25 2 2 3 2 24 Findley L 8/27/19/36 epi 27 28 29 3 3 3 24 Findley L 8/27/19/36 epi 27 28 29 3 3 3 24 Findley L 8/27/19/36 epi 27 28 3 3 4 4 24 Findley L 8/27/19/36 epi 27 28 3 3 4 4 24 Findley L 8/27	24	Findley L	7/20/1993	epi	21	24	3		3								
24 Findley L 02/11/1931 epi 15 18 2 4 4 25 24 Findley L 03/11/1931 epi 77 14 3 3 4 125 24 Findley L 03/11/1931 epi 31 23 2 2 2 2 24 Findley L 77/25/1994 epi 27 24 2 2 3 56 25 Findley L 77/25/1994 epi 27 24 2 2 3 56 24 Findley L 87/37/1994 epi 27 24 2 2 3 56 25 Findley L 95/1994 epi 27 24 2 2 3 2 4 135 24 Findley L 95/1994 epi 19 19 20 4 2 3 134 24 Findley L 67/37/1994 epi 19 19 3 3 4 135 25 Findley L 67/37/1995 epi 20 27 3 2 4 14 24 Findley L 67/37/1995 epi 30 27 3 2 4 14 24 Findley L 67/37/1995 epi 23 23 3 3 15 24 Findley L 77/17/1995 epi 28 27 3 2 3 14 24 Findley L 77/37/1995 epi 28 27 3 2 3 3 14 24 Findley L 77/37/1995 epi 30 27 3 2 3 3 14 24 Findley L 77/37/1995 epi 28 27 3 2 3 3 3 14 24 Findley L 77/37/1995 epi 28 27 3 2 3 3 3 3 3 24 Findley L 77/37/1996 epi 27 25 2 2 2 3 24 Findley L 77/37/1996 epi 27 25 2 2 3 3 25 Findley L 77/37/1996 epi 27 25 2 2 3 3 24 Findley L 77/37/1996 epi 27 25 2 2 3 3 25 Findley L 87/37/1996 epi 28 27 3 3 3 26 Findley L 87/37/1996 epi 27 25 2 2 3 3 27 Findley L 87/37/1997 epi 25 22 3 4 4 24 28 Findley L 87/37/1997 epi 25 22 3 4 4 24 29 Findley L 87/37/1997 epi 25 22 3 4 4 24 24 Findley L 87/37/1997 epi 25 22 3 3 3 3 3 24 Findley L 87/37/1997 epi 26 25 3 3 3 3 3 24 Findley L 87/37/1997 epi 26 25 3 3 3 3 3 24 Findley L 87/37/1997 epi 26 25 3 3 3 3 3 24 Findley L 87/37/1997 epi 26 27 27 27 27	24			epi	24	23		2	3	1							
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24 Findley L 9/26/1994 epi 19 19 20 4 2 3 134		,			-												
24 Findley L 6/20/1995 epi 25 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Findley L	0/5/1004														
24 Findley L 6/5/1995 epi 25 22 2 2 2 2		Findley L	9/3/1994														
24 Findley L 6/20/1995 epi 30 27 3 2 4 14										133							
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24		Findley L	7/17/1995		-												
24	24				30	28	3		3	134							
24 Findley L 7/12/1996 epi 27 25 2 2 3 144	24	Findley L	8/14/1995	epi	31	27	4	2	3	134							
24 Findley L 7/17/1996 epi 32 25 2 2 3 L 2 2 5 L 2 3 2 2 2 2 2 3 2 4 4 2 4 2 4 4 2 4 2 2 2 3 3 3 3 3 3 3 3 3 3				ері			1	2									
24 Findley L 7/29/1996 epi 22 23 2 2 2 3 2 2 2 3 2 2 2 2 3 2 2 2 2 3 2 2 2 3 2 2 2 3 2 2 2 3 2 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3 3 3 2 3				epi						14							
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24 Findley L 9/23/1996 epi 19 17 3 4 4 24 24 Findley L 6/9/1997 epi 24 19 1 3 3 2 2 24 Findley L 6/23/1997 epi 24 23 1 3 3 2 24 Findley L 7/7/1997 epi 20 23 3 2 3 1 24 Findley L 7/21/1997 epi 26 25 3 3 3 134 24 Findley L 8/4/1997 epi 20 23 3 3 2 3 1 24 Findley L 8/4/1997 epi 20 23 3 3 2 3 4 1 24 Findley L 8/4/1997 epi 19 22 3 3 4 124 24 Findley L 9/15/1997 epi 26 22 3 3 4 124 24 Findley L 9/15/1997 epi 26 22 3 3 4 124 24 Findley L 9/15/1997 epi 24 21 3 3 4 124 24 Findley L 9/15/1997 epi 24 21 3 3 4 124 24 Findley L 6/8/1998 epi 17 18 2 4 4 2 2 24 Findley L 6/8/1998 epi 25 24 2 4 4 24 24 Findley L 6/22/1998 epi 25 24 2 4 4 24 24 Findley L 7/7/1998 epi 26 25 3 4 4 124 24 Findley L 7/20/1998 epi 25 25 23 4 2 4 124 24 Findley L 7/20/1998 epi 25 25 23 5 4 4 1234 24 Findley L 8/3/1998 epi 25 23 5 4 4 1234 24 Findley L 8/3/1998 epi 25 23 5 4 4 1234 24 Findley L 8/17/1998 epi 30 25 4 3 4 124 24 Findley L 8/17/1998 epi 30 25 4 3 4 124 24 Findley L 8/17/1998 epi 25 23 5 4 4 1234 24 Findley L 8/17/1998 epi 25 23 3 3 4 124 24 Findley L 8/17/1998 epi 27 26 3 3 4 124 24 Findley L 8/17/1998 epi 27 28 3 3 3 234 24 Findley L 8/3/1999 epi 30 25 4 3 4 1234 24 Findley L 6/21/1999 epi 30 25 2 3 3 3 234 24 Findley L 6/21/1999 epi 30 25 25 3 3 3 24 24 Findley L 6/21/1999 epi 30 25 25 3 3 3 24 24 Findley L 8/17/1998 epi 20 22 3 3 3 24 24 Findley L 8/17/1998 epi 20 22 3 3 3 24 24 Findley L 8/17/1999 epi 30 25 25 3 3 3 24 24 Findley L 8/17/1999 epi 30 25 25 3 3 3 3 24 24 Findley L 8/17/1999 epi 20 22 3 3 3 3 24 24 Findley L 8/17/1999 epi 20 22 3 3 3 3 24 24 Findley L 8/17/1999 epi 20 22 3 3 3 3 3 24 24 Findley L 8/17/1999 epi 20 22 2 3 3 3 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2 4 134 24 Findley L 8/17/1999 epi 20 22 2 4 2								_	_	0.4							
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LNum	PName	Date	Site	TAir	TH20	QA	QB	QC	QD	QF	QG	AQ-	AQ-	MC-	Anato	
												PC	Chla	LR	xin-a	Cyclin
24	Findley L	9/25/2011	bloom									784.4	13.50			
24	Findley L	6/22/1998	hypo		14											
24	Findley L	7/20/1998	hypo		15											
24	Findley L	9/14/1998	hypo		12											
24	Findley L	6/4/2010	hypo		24											
24	Findley L	6/17/2010	hypo		22											
24	Findley L	7/1/2010	hypo		19											
24	Findley L	7/25/2010	hypo		20											
24	Findley L	8/1/2010	hypo		20											
24	Findley L	8/8/2010	hypo		20											
24	Findley L	8/29/2010	hypo		20											
24	Findley L	9/23/2010	hypo		17											
24	Findley L	7/17/2011	hypo													
24	Findley L	7/31/2011	hypo													
24	Findley L	9/25/2011	hypo													

Legend Information

Indicator	Description	Detection Limit	Standard (S) / Criteria (C)
General Inform	nation		
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	I	l
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	rameters		
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
Ca	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-ChI	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)	0.3 ug/l	none
Cyl	Cylindrospermposin (ug/l)	0.1 ug/l	none
Lake Assessme	nt	-1	
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		

Appendix B- Monthly Evaluation of Findley Lake Data, 2006-2011

June Data

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

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
Zsd	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
TP	LOW	HIGH	NORMAL	NORMAL	NORMAL	NORMAL
Chl.a	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
NOx	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
NH4	NORMAL	NORMAL	LOW	NORMAL	NORMAL	LOW
TN	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
рН	NORMAL	HIGH	NORMAL	NORMAL	NORMAL	NORMAL
SpCond	HIGH	NORMAL	NORMAL	LOW	NORMAL	LOW
Color	NORMAL	NORMAL	NORMAL	NORMAL	HIGH	NORMAL
Са						NORMAL
QA	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QB	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
QC	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	LOW
TH20		NORMAL	NORMAL	NORMAL	NORMAL	HIGH

 $\begin{array}{l} \mbox{High = average monthly reading} > 90^{\mbox{\tiny th}} \mbox{ percentile reading for lake, } 2000\text{-}2010 \\ \mbox{Low = average monthly reading} < 10^{\mbox{\tiny th}} \mbox{ percentile reading for lake, } 2000\text{-}2010 \\ \mbox{Normal = average monthly reading between } 10^{\mbox{\tiny th}} \mbox{ and } 90^{\mbox{\tiny th}} \mbox{ percentile reading for lake, } 2000\text{-}2010 \\ \end{array}$

August Data

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

Appendix C: Priority Waterbody Listing for Findley Lake

Findley Lake (0202-0004)

Impaired Seg

Revised: 02/26/2007

Waterbody Location Information

Water Index No: Pa-84- 2-P153 Drain Basin: Allegheny River

Hydro Unit Code: 05010004/010 Str Class: B French Creek

Waterbody Type:LakeReg/County:9/Chautauqua Co. (7)Waterbody Size:307.1 AcresQuad Map:CLYMER (M-02-4)

Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted Severity Problem Documentation

PUBLIC BATHING Impaired Known
Aquatic Life Stressed Known
RECREATION Impaired Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, D.O./OXYGEN DEMAND, NUTRIENTS (phosphorus)

Suspected: Problem Species

Possible: ---

Source(s) of Pollutant(s)

Known: ---

Suspected: AGRICULTURE, Habitat Modification

Possible: Failing On-Site Syst

Resolution/Management Information

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

Lead Agency/Office: DOW/Reg9 Resolution Potential: Medium

TMDL/303d Status: 3a->1()

Further Details

Public Bathing and other recreational uses in Findley Lake are considered to be impaired by nutrient enrichment and excessive aquatic plant growth. Impacts to the fishery have also been noted. These impairments are attributed to agricultural and other nonpoint runoff sources.

Findley Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1986 and continuing through 2005. The most recent 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 eutrophic, or highly productive. Samples collected as recently as 2002 thru 2004 suggest possible improving conditions toward the mesotrophic, or moderately productive, range. However phosphorus levels in the lake consistently exceed the state guidance values indicating impacted recreational uses. Transparency measurements regularly fall below what is minimally recommended for swimming beaches. Nutrient levels at the lake bottom are usually elevated suggesting the bottom waters are poorly oxygenated and contribute to increases in surface water nutrient levels throughout the summer. This deepwater oxygen deficit was recorded in the lake at least back to the 1930s. (DEC/DOW, BWAM/CSLAP, February 2006)

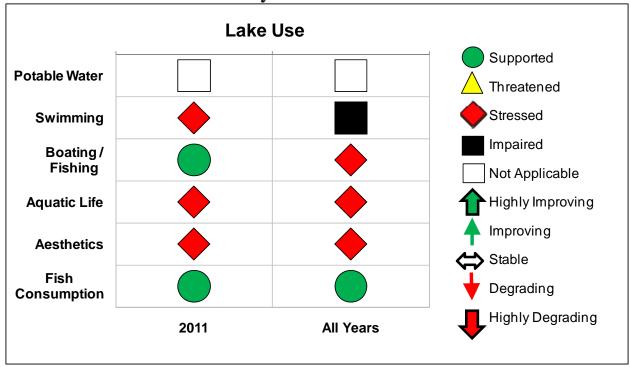
Public perception of the lake and its uses is also evaluated as part of the CSLAP program. These assessment also indicate recreational suitability of the lake to be somewhat unfavorable. The lake is described most frequently as "slightly" impacted

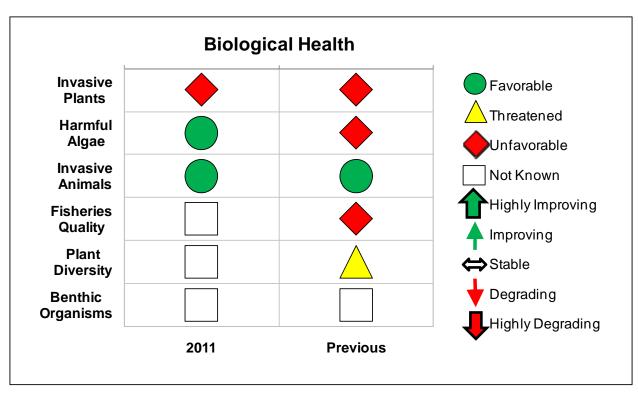
for most recreational uses. The lake itself is most often described as having "definite algal greenness," an assessment that is consistent with the perceived water quality conditions in the lake and its measured water quality characteristics. Assessments have noted that aquatic plants regularly grow to the lake surface. Aquatic plants are dominated by a mix of native and non-native species (though invasives may be on the decline) and have been cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, February 2006)

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

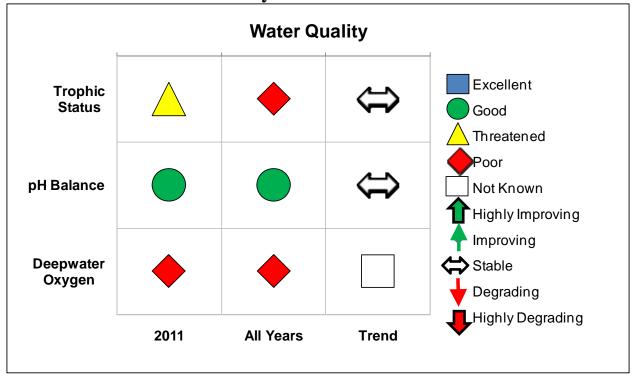
Periodic low dissolved oxygen in parts of the lake has some impact the fishery and aquatic life support. However tiger muskie and walleye are stocked by NYSDEC, and the lake provides a good smallmouth bass and largemouth bass fishery. (DEC/DFWMR, Region 9, January 2007)

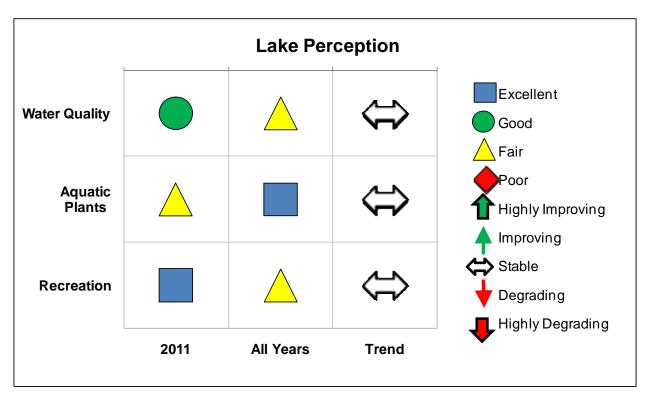
2011 Findley Lake Scorecard





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The 2011 CSLAP annual report for Findley Lake will soon be found at http://www.dec.ny.gov/lands/77881.html