



CANANDAIGUA LAKE  
WATERSHED ASSOCIATION  
Spring 2019

# LAKE REPORTER

## VIEWPOINTS EVENT ON MAY 2: UNDERSTANDING THE FATE AND IMPACTS OF PLASTICS POLLUTION IN THE GREAT LAKES

In recent years, there has been an increased concern about impacts of microplastics in freshwater systems around the world, though there is much still unknown about the fate, transport, and impacts of microplastic. Open water sampling campaigns and beach cleanups have established the presence of plastic particles in the water and in organisms, while modeling studies have tried to map the distribution and estimate the magnitude of the problem.

On Thursday, May 2<sup>nd</sup> at 6:30 PM at Finger Lakes Community College Stage 14, CLWA will welcome Dr. Matthew Hoffman for a presentation on this important topic. Dr. Hoffman will discuss his work modeling plastic pollution in the Great Lakes region, and will share knowledge on the distribution and ecological risk of plastic pollution in freshwater systems.



Matthew Hoffman is an Associate Professor in the School of Mathematical Sciences at Rochester Institute of Technology and the Director of RIT's Master of Science program in Applied and Computational Mathematics. He received his PhD in Applied Mathematics and Scientific Computing from the University of Maryland and was a postdoc in the Earth and Planetary Sciences department at Johns Hopkins University. Dr. Hoffman's research involves the integration of data with mathematical models in wide-ranging applications including forecasting the flow of the Chesapeake Bay, tracking vehicles through complex urban environments, understanding cardiac arrhythmias, and sports analytics.

We hope you will join us to learn more about the emerging research on this global concern.

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## CONGRATULATIONS TO MIDDLESEX Onsite Waste Water Law Passes Unanimously

On January 10, 2019, the Middlesex Town Board unanimously passed the Onsite Waste Water Law. The law had been several years in the making, and had undergone modifications as a result of careful review and input from public hearings and workshops at the county and local level.

The adopted law requires septic system inspections every 5 years, by a licensed inspector, if the absorption area or holding tank is within 200 feet of the lake. Additionally, Town-wide, waste treatment system inspections are now required at the time of all property deed transfers, and if there are changes in use or size of an existing building. If alterations are made to an existing absorption field or treatment system an inspection will be required as part of the approval process.

CLWA has been a long-time proponent of the law as a means of addressing substandard or failing systems that have the ability to degrade the water quality of Canandaigua Lake. We applaud the efforts of the Town of Middlesex to move this initiative forward and for recognizing the positive impact that this law will have on water quality and human health. Middlesex joins the other watershed communities to have passed the law in recent years, including the Town of Canandaigua, the Town of Gorham, and the Town of South Bristol.



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The Lake Reporter is published quarterly and distributed free to members and supporters. We invite submissions. Please send via postal mail or email to: info@canandaigualakeassoc.org

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Cover image by Micha Johnson

## PRESIDENT'S MESSAGE

by Neil Atkins



CLWA is collaborating with our many partners and organizations to fulfill our mission.

One such organization in which CLWA is a member and an active participant is the Finger Lakes Regional Watershed Alliance.

The Alliance was established in 2010 to bring together the members, expertise, and desires of the watershed associations in the Finger Lakes to preserve and protect their watersheds with a collective regional voice; to join forces to advocate for mutually beneficial regional changes, backed by sound research; and to promote collective actions that represent the desires of the entire Finger Lakes region. Members of your CLWA board were instrumental in forming this alliance.

The associations of Otisco, Skaneateles, Owasco, Cayuga, Seneca, Keuka, Canandaigua, Conesus and Honeoye lakes make up the voting membership of the Finger Lakes Regional Watershed Alliance.

Partners of the alliance include Sodus Bay's Save our Sodus, New York State Federation of Lake Associations (NYSFOLA), the City of Rochester which manages Hemlock and Canadice lakes, and the Finger Lakes Institute, all of which are active participants in our meetings.

We meet every other month at the Finger Lakes Institute of the Hobart and William Smith colleges. Our meetings are structured to allow for presentations and discussion on current issues, regular NYSDEC briefings, and discussions with our invited state representatives or their staff. Time is set aside for each lake association to provide and share the summaries of their activities, problems and solutions. This also allows us to find out what common issues other associations face, the programs addressing these issues, and the research being done.

Last Fall, the Alliance hosted a Harmful Algae Blooms (HABs) Volunteer Surveillance workshop. Each of the associations presented a summary of last summer's shoreline monitoring results.

Seneca Lake Pure Waters was a main participant and presented an overview of their program, which has been expanded and refined over several years. Canandaigua Lake's volunteer program was modeled after Seneca's and will be expanded along their guidelines. We have worked closely with NYSDEC to refine our monitoring, sampling and testing to follow the DEC protocol. The results of our monitoring will allow CLWA to continue providing Water Quality Updates to our members and will contribute towards the ongoing research of HABs across the Finger Lakes region.

The value of our Alliance is shown by its ability to create a venue to meet and share ideas, common problems, solutions and programs. CLWA looks forward to continuing our active participation in the Finger Lakes Regional Watershed Alliance in the future.

For more information on the Finger Lakes Regional Watershed Alliance, visit <http://www.flrwa.org/>.

# WATERCRAFT STEWARDS ON CANANDAIGUA LAKE, A 2018 SUMMARY

By Sam Beck-Anderson

Project Manager, Watercraft Steward Program, Finger Lakes Institute



Since the inception of the Finger Lakes Institute’s (FLI) Watercraft Steward Program (WSP) in 2012, Canandaigua Lake has been one of our strongest partners. Besides being a close neighbor to Geneva and Hobart and William Smith Colleges, Canandaigua Lake groups including the Canandaigua Lake Watershed Association (CLWA) and the Canandaigua Lake Watershed Council (CLWC) have continually provided monetary and hands-on support to operate an expanded program on the Lake. These groups have been close partners in planning, promoting, and maintaining aspects of the program, and continue to do so. With these contributions, Canandaigua Lake has consistently had expansive watercraft steward coverage. For example, over the past three years, the Canandaigua Lake State Marine Park had had a steward present seven days a week, ten hours a day Monday through Friday, and twelve hours of coverage Saturdays and Sundays. During the same time period, the Woodville DEC Boat

Launch at the south end of Canandaigua Lake has been covered for ten hours a day, seven days a week by FLI stewards. The FLI has also pilot tested developments to the steward program including our first foray into the world of digital data collection for boat inspections. And, in 2017 and 2018 FLI also executed a pilot program exploring boat traffic during the boating “offseason”, into late-September and through October.

Another reason Canandaigua Lake has been so valuable to the FLI WSP development is the sheer number of boaters that visit the Lake year after year. In the past three years, Canandaigua Lake State Marine Park has been the first or second busiest boat launch, by number of inspections per day, covered by the FLI. The Woodville DEC boat launch at the south end of the Lake has been in the top five busiest launches covered by the FLI during the same period. On average during the 2018 season, FLI stewards inspected about 70 boats and 41 boats on average per day at the Marine Park and Woodville, respectively. Other high-volume launches in our program include the Port of Rochester launch with an average of 88 inspections a day and Owasco Lake’s Emerson Park with 49 inspections per day on average. Relatively high inspection numbers at these launches is not confined to the Finger Lakes region. According to statewide inspection data, Canandaigua Lake experienced the highest number of inspections in the state for 2018, with a total of 8,689 inspections by FLI staff alone (NYS Park Stewards also inspected 2,859 boats at the launch). The second highest number of inspections contributed to the statewide database by one boat launch occurred at the Saratoga Lake State Park, with a total of 6,428 inspections.

Another valuable contribution provided by Canandaigua Lake’s boat launches is the opportunity to compare two different types of boat launches on the lake. So, what differentiates the State Park at the north end from the Woodville DEC launch at the south? Despite both launches being a stone’s throw from Rochester and several smaller population centers, data analyses of inspections at these launches can tell us a great deal about how these two launches diverge. What influences the way that boaters access a waterbody? Some major differences between these launches include cost of use, distance from major roadways, reputation/reviews, access to popular lake locations, and the capacity of the launch. Some of these important differences are outlined in **Table 1**. Other differences are also noted.

	Canandaigua Lake State Marine Park	Woodville DEC Boat Launch
<b>Driving distance from Rochester, NY</b>	28.7 miles	41.9 miles
<b>Capacity</b>	110+	86
<b>Cost</b>	\$7	Free
<b>Nearby lake attractions</b>	Kershaw Park, Inn at the Lake, Sand Bar	West River

Table 1. Important differences between the State Park and Woodville boat launches on Canandaigua Lake. These differences likely contribute to the differences identified with data analysis during the off season.

Continued on page 4

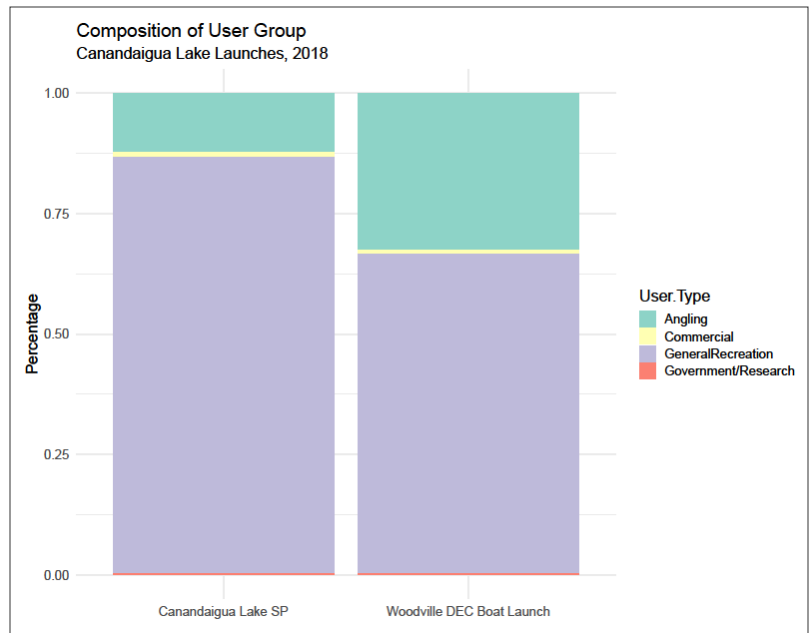
## WATERCRAFT STEWARDS, CONTINUED FROM PAGE 3

**Figure 1** displays the composition of user groups using the two Canandaigua Lake launches. At the Woodville launch, anglers make up more than twice the overall percentage of boaters than at the State Park. This marked difference could potentially be a product of distance to cities or proximity to good fishing locations.

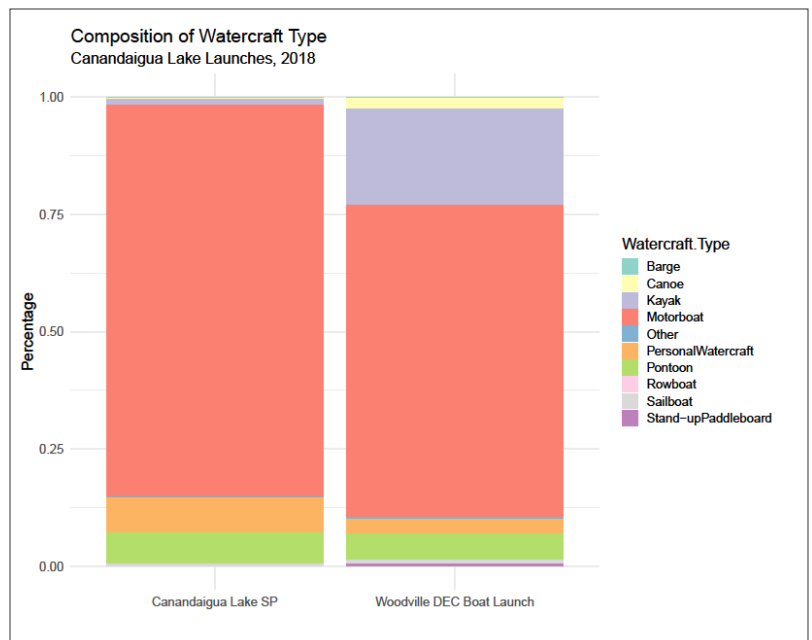
**Figure 2** displays the composition of watercraft type inspected at the two launches. While motorboats are consistently the most common watercraft type at these two locations, launch characteristics such as cost and presence of hand-launch facilities likely attribute to a much higher percentage of canoes and kayak inspections at the Woodville launch.

How can we use these analyses to improve our program, and ultimately further reduce the spread of invasive species in Canandaigua Lake and across the Finger Lakes Region? Each off-season, program coordinators and the program manager have a chance to assess the goals and objectives associated with the program, and reevaluate management strategies utilized by the program to reach those goals. Should we change staffing schedules? What materials should we provide to boaters? What visitors do we need to give extra attention to when inspecting watercrafts? All of these questions are important in keeping our program relevant, effective, and efficient, and the analyses in this article help to answer some of them. By identifying differences and similarities in prominent user groups at the two launches, we can customize training for each launch. Instead of going about the education of the public with a one-size-fits-all approach, this information can help us provide customized strategies for each lake and launch in our range to specifically connect with the prominent groups at those locations.

During watercraft inspections, stewards always ask where the visitor used their boat last before launching. When analyzed, this data can tell us a lot about the risks facing Canandaigua Lake. **Figure 3** displays the most common last waterbodies visited by boaters launching into Canandaigua Lake. Right away, top sources of launching boats jump out as being high-risk: Lake Ontario and Irondequoit Bay, the Erie Canal, the St. Lawrence River, and Cayuga Lake. All of these waterbodies contain high-risk invasives not yet introduced to Canandaigua Lake. Maintaining a continued effort against the spread of invasive species requires repeated evaluation. **Figure 4** displays organisms found during watercraft inspections, one metric for the success of this program. Although the most common organisms found during inspections are either native or are already found in Canandaigua Lake, this graph points out two instances of successful interceptions of Variable-leaf watermilfoil, a species not yet introduced to Canandaigua Lake.



*Figure 1. Total user group composition for watercrafts using Canandaigua Lake boat launches. While general recreation dominates both launches, angling makes up double to percentage of users at Woodville than at the State Park. Data only includes FLI steward inspections*



*Figure 2. Total watercraft composition for inspections at Canandaigua Lake boat launches. Motorboats dominate this variable at both launches, but the percentage of canoes and kayaks is much higher at Woodville. Data only includes FLI steward inspections.*

## WATERCRAFT STEWARDS, CONTINUED

2019 brings new opportunities for the WSP on Canandaigua Lake. The FLI will continue to collaborate with The CLWA and CLWC, and the NYS Parks Steward Program to provide consistent steward coverage for length of the boating season and beyond. For more information about the Finger Lakes Institute's Watercraft Steward Program, please visit [flisteward.com](http://flisteward.com). We are always recruiting for new stewards all around the Finger Lakes Region. Part-time or full-time college students, high school and college graduates, and retired persons are all encouraged to inquire about opportunities for the 2019 season. To inquire please email: [beck-andersen@hws.edu](mailto:beck-andersen@hws.edu).

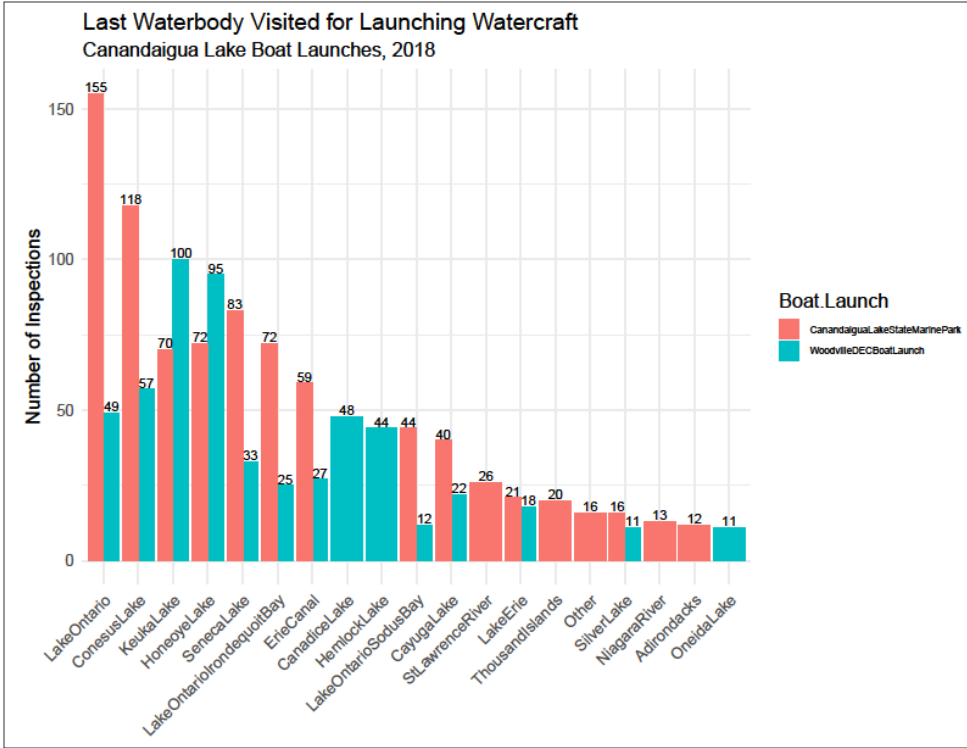


Figure 3. Most common waterbodies for boat launching into Canandaigua Lake. Many of these top sources contain species not yet introduced to the Canandaigua Lake Watershed. Non-risk launches coming from Canandaigua Lake and more than two weeks out of water were omitted. Data only includes FLI steward inspections.

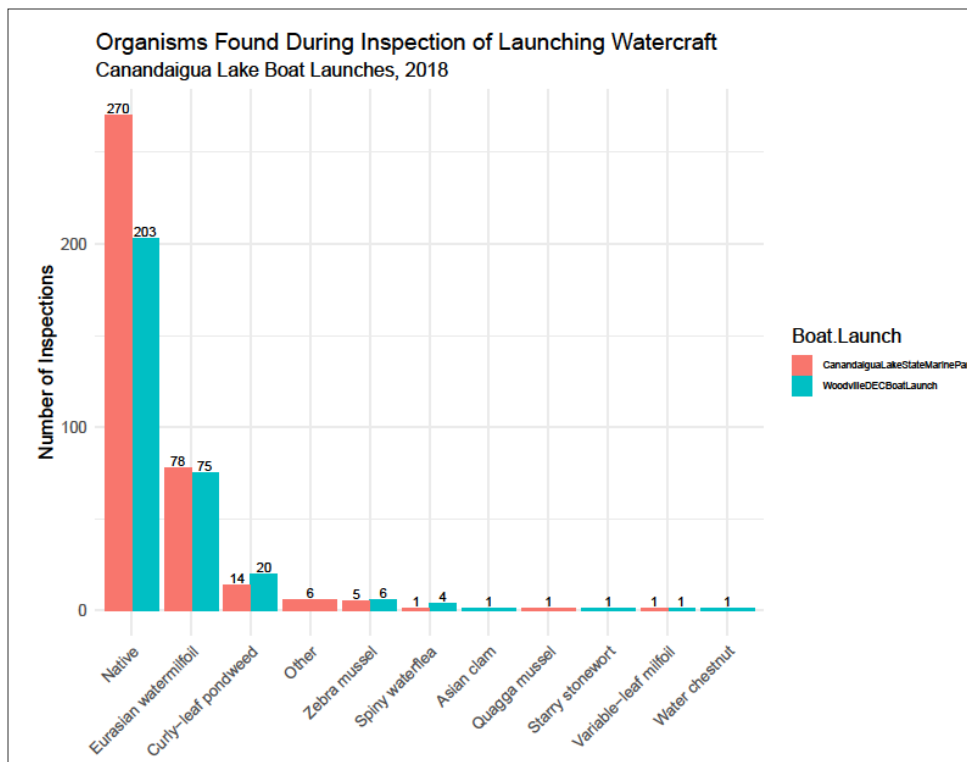


Figure 4. Organisms, native and otherwise, found during steward inspections of boats entering Canandaigua Lake. Although many of these species are already introduced or established into Canandaigua Lake, this figure demonstrates one metric of success for this program: the ability of stewards to identify and intercept invasive species while inspecting incoming watercraft. Data only includes FLI steward inspections.

## LAKE-FRIENDLY LAWN CARE PROGRAM EXPANDS

by Rob Gray and Sonya Carnevale, CLWA Outreach Committee Members

CLWA is excited to announce that we are joining forces with the City of Canandaigua and Town of Canandaigua to educate and encourage homeowners, businesses, and local organizations to practice lake-friendly lawn care.

The use of lawn chemicals on city owned property, rights of way, parks, school grounds and even private property has been discussed by the City of Canandaigua for years to no avail. Despite efforts, no ordinances have emerged. In the spring of 2018, the CLWA Outreach Committee started our own lawn care initiative, encouraging watershed residents to pledge to reduce lawn care pesticides, herbicides and fertilization for the health of our lake. We created a page of guidelines outlining best practices for a lake-friendly lawn, and attractive yard signs indicating the home owner's pledge to follow lake-friendly lawn care practices. In our attempt to increase awareness of our program and to convince land owners in the watershed that lake-friendly methods are best, members of the Outreach Committee met with the public at the Farmers Market, Canandaigua Town Highway Department open house, the Yacht Club Blessing of the Fleet, a birding walk at Lagoon Park, our Viewpoints Lectures, and at the HABs Symposium this past fall.

Enthusiasm for our lawn care educational program grew to include leaders of the Town of Canandaigua, the Chamber of Commerce, the City of Canandaigua, and other watershed towns. Kevin Olvany (Watershed Program Manager for Canandaigua Lake), and Wade Sarkis (past President of CLWA) were instrumental in creating an alliance with the City of Canandaigua. Representatives of these organizations have been meeting regularly and have begun a cooperative effort to expand the lake-friendly lawn care initiative. It is our joint goal of 2019 with the City Council to encourage many more home owners, businesses, and organizations to take part in this program.

As many of you are aware, the past few years have been a serious wake-up call for Canandaigua watershed residents as our lake has succumbed to serious toxic blue-green algae blooms. If we are serious about the health of the lake and watershed, let's make 2019 the year we start working together.

Do you practice healthy lawn care? Are you proud of the efforts you take to reduce your impact on the lake? Then join CLWA to encourage best practices by becoming a Lake-Friendly Lawn Care leader!

Excess nutrients in our lake can contribute to harmful algae blooms, increased aquatic plant growth, and the degradation of our water quality. As a member of CLWA, we know you care about preserving the integrity of our beautiful lake for years to come.

Many of you are already eliminating (or limiting) your fertilizer use, planting rain gardens or vegetative buffers, and tolerating some levels of weeds and pests before considering pesticides and herbicides. That's why we are excited to announce that CLWA is now offering lawn signs to our members that are committed to incorporating healthy lawn care and landscape practices! Signs can be displayed proudly on your property to let your neighbors know that you are doing your part to protect the lake by practicing Lake-Friendly Lawn Care.

Signs are free for dues-paying CLWA members. Stop by an upcoming CLWA event, chat with our board members, sign a pledge card, and take home your own lawn sign. You can also visit our website to take the pledge online!

If you cannot make an upcoming event, signs can be picked up at the CLWA office - give us a call at (585) 394-5030 to make arrangements.



## AN INTRODUCTION TO CLWA'S NEWEST BOARD MEMBERS

CLWA is pleased to announce the addition of three new members to our Board of Directors: Sonya Carnevale, Lynn Klotz and Sally Napolitano. All three members bring a tremendous amount of talent, expertise and energy to the table. We are thrilled to have their involvement in our programs to raise awareness on water quality issues and to help drive our mission of preserving and protecting Canandaigua Lake for future generations.



**Sonya Carnevale** joined the Outreach Committee of CLWA in 2017 and the Board of Directors in 2018. Sonya has lived in Canandaigua with her husband and two children since 2001. She and her family enjoy the beauty of the lake and region and the outdoor recreational opportunities that Canandaigua provides. Sonya graduated with a B. S. in nursing from SUNY Binghamton in 1994. She worked for a number of years at Upstate University Hospital in Syracuse and Strong Memorial Hospital. Starting in 2012, she has been working for InterpStudies, LLC. Sonya has long felt compelled to protect and nurture our environment upon which our own health and future relies. She is active in developing CLWA's outreach programs and in forwarding the Lake-Friendly Lawn Care program.

**Lynn Klotz** joined the CLWA Board in August 2018 after being active on CLWA's Citizen Science Committee and helping to develop the organization's Volunteer Shoreline Harmful Algae Bloom Monitoring Program. Lynn has always loved lake living and feels fortunate to have spent her childhood summers on Chautauqua Lake and time on Canandaigua Lake since 1991. She is married with 2 adult sons and is now "empty nesting" with two large dogs at their home in Lima or cottage on Canandaigua Lake. She received her BA in Communications, with a minor in Public Relations from SUNY Geneseo. Lynn is passionate about clean, fresh water to drink and for recreation. She serves as CLWA's Volunteer Coordinator for the Shoreline Monitoring Program and joined the CLWA leadership team in February 2019, now serving as CLWA's Secretary.



**Sally Napolitano** has been active with the CLWA Citizen Science Committee since the fall of 2017, and was a driving force behind the development and implementation of the Volunteer HABs Shoreline Monitoring Program. Sally spent part of her childhood years living on Lake Erie, and throughout her life has developed a love and appreciation for the lake and outdoors - enjoying water activities, Finger Lakes hiking, biking and golf. She received her BS in Business Administration from Virginia Tech, and worked for 12 years as a Sales Engineer/Senior Account Manager for Reliance Electric and Toshiba Industrial in the Greater Chicago area. Sally is going into her 6<sup>th</sup> summer as a lakefront property owner, and also serves as the Vice President of the Cottage City Cove Association. She has been active as Data Coordinator for the HABs program and has an interest in drinking water concerns across the Finger Lakes region.

## CALL FOR VOLUNTEERS! SHORELINE MONITORING PROGRAM LOOKING TO ADD 6 ADDITIONAL SAMPLERS

Harmful Algal Blooms (HABs) have been increasing in frequency and intensity across the State. In 2018, Canandaigua Lake experienced significant lake-wide harmful algae bloom events that impacted our recreational use of the lake and spurred drinking water concerns.

As an overarching goal of the organization, CLWA wants to do our part to help keep the public informed on changing lake conditions and the threat of potentially toxic harmful algae blooms to pets and humans.

Recognizing the severity and complexity of the HABs issue, in 2018 CLWA launched a Shoreline Harmful Algal Bloom Monitoring Program powered by 16 citizen science volunteers, covering 18 zones. Building on our strong partnerships with the Canandaigua Lake Watershed Council, the Finger Lakes Institute, and the DEC, the Volunteer Shoreline Monitoring Program added more “eyes on the lake” to the coordinated network of volunteers and professional staff that have the ability to effectively identify, report, and sample HABs under DEC protocol.

**This summer, we will be expanding our Harmful Algal Bloom Shoreline Monitoring Program and we need your help.** CLWA is looking for 6 additional volunteers to help us proactively monitor the 36 miles of shoreline in the months of August and September, during the season when cyanobacteria tend to proliferate in our lakes.

Shoreline monitors help track where and when HABs blooms arise, contributing to the overall water quality monitoring efforts on Canandaigua Lake. Volunteers commit to monitoring a stretch of shoreline once a week and collect samples if blooms are spotted. Samples are then sent for toxin analysis, and the information collected aids in the development of public notifications on HABs around the lake, warning residents and recreational lake users of potential harmful lake conditions.

### AS A VOLUNTEER, YOU WILL:

- Attend a 2-hour shoreline monitoring training session conducted by the DEC.
- Observe the same segment of shoreline for a 10-week period, from July 28 – October 4.
- Document conditions using a digital camera or smart phone and submit a weekly report.
- Keep us informed of any changing lake conditions you notice throughout the season.

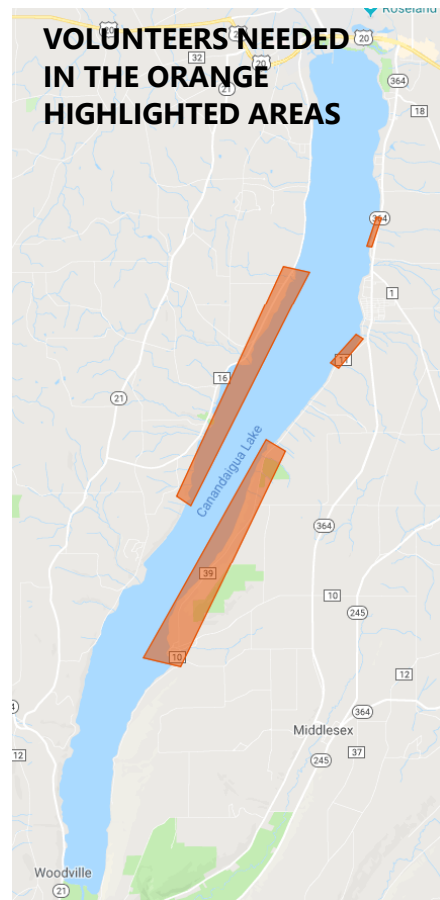
### VOLUNTEERS ARE NEEDED IN THE FOLLOWING AREAS:

- On the west side of the lake from Tichenor Gully south to Black Point
- On the east side of the lake from:
  - Shoalwater Point / Torrey Beach (near Ontario Beach Park)
  - Gooding Point/Gage Gully, South of Cottage City on East Lake
  - Long Point south to Vine Valley

We are also looking for 2 volunteers who can commit to driving water samples from our Canandaigua office to Geneva once a week (weekdays, dependent on conditions).

Lake conditions can change quickly and the assistance of Shoreline Monitors will help us assess water quality in a timely manner. With a lake that is 15.5 miles long, the more eyes the better! We'd love to add you to our coordinated network of volunteers around the lake.

To learn more or to get involved, email us at [lindsaym@canandaigualakeassoc.org](mailto:lindsaym@canandaigualakeassoc.org) or call (585) 394-5030 by Friday, May 17th.



# ANOTHER VOLUNTEER OPPORTUNITY WITH THE FINGER LAKES INSTITUTE ...



HOBART AND WILLIAM SMITH COLLEGES



## BECOME AN AQUATIC INVASIVE SPECIES (AIS) DETECTOR!

Finger Lakes PRISM and the Finger Lakes Institute invite volunteers to participate in the 2019 Finger Lakes Macrophyte Survey program

**WHAT:** A volunteer aquatic plant survey and we want you! The goal is for you to be the 'eyes on the ground' and to get a baseline of what is in our waters. This helps our early detection rapid response (EDRR) of high priority aquatic invasive species.

**OBJECTIVE:** To learn how to identify, survey, and report aquatic invasive species

**WHERE:** A waterbody nearest you

**WHO:** Do you live near, recreate on, or love our waters? Then this program is for you! Our program consists of regular sampling, and you do not have to own lakeshore property to participate.

**COMMITMENT:** The survey takes place between June – October with one survey (rake toss) reported biweekly. That's only ten sampling days!

Registrants will receive all components needed: plant identification training, survey kits, data protocol, resources and one on one support.

Training dates and locations to be determined based on number of registrants. Please sign up <https://goo.gl/forms/j153N8ZAJRs3gbgG3>

Stay tuned to our official website for training dates and program updates: [www.fingerlakesinvasives.org](http://www.fingerlakesinvasives.org)

HELP us by getting involved and becoming a lake steward!

For more information, contact Patty Wakefield Brown, Invasive Species Outreach and Volunteer Coordinator at the Finger Lakes Institute at (315) 781-4387 or [Wakefieldbrown@hws.edu](mailto:Wakefieldbrown@hws.edu).



Volunteers attend a training session at the Finger Lakes Institute in Geneva, learning to ID the aquatic plants they may encounter.

## WE WANT TO HEAR FROM YOU ON ALGAE BLOOMS AND DRINKING WATER

CLWA would like to hear from our members that utilize private water systems on Canandaigua Lake.

In 2018, Canandaigua Lake experienced a significant lake-wide harmful algae bloom event that impacted the public water supply for customers in the Village of Rushville and the hamlet of Middlesex water district. As our water districts work diligently to prepare for the growing concern of toxins associated with harmful algae blooms, we recognize that many residents in the southern end of the watershed are using their own private systems to draw water from the lake for drinking and household use.

This winter, CLWA spearheaded the development of a *Private Water Systems Working Group* to dig deeper on the concerns associated with drawing surface water and to look at the available research on these issues. As records for private systems are spotty (or non-existent), our first major hurdle is to **gather critical baseline information on the status of existing private water systems around the lake.**

CLWA has developed a short survey and we invite our members utilizing PRIVATE systems to participate. The survey aims to gather information on the treatment methods used by residents, the depth of intakes (if known) and to gauge the awareness of the impacts of HABs. The survey may be accessed by visiting the CLWA website at [www.canandaigualakeassoc.org](http://www.canandaigualakeassoc.org) and navigating to the "Private water systems survey" tab under "Get Involved" (or via this link: <http://www.canandaigualakeassoc.org/private-lake-water-systems-survey/>). The survey should take less than 5 minutes to complete. Please forward to your neighbors that should have input on this issue as well!



As always, we thank our members for their feedback. Your responses will help shape our future education and outreach around this important topic.

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## THE NYS DEPARTMENT OF HEALTH ENCOURAGES INDIVIDUALS TO REPORT BLOOM-RELATED HEALTH SYMPTOMS TO YOUR LOCAL HEALTH DEPARTMENT

Contributed by Monica Nordstrom, NYSDOH Bureau of Environmental and Occupational Epidemiology, [monica.nordstrom@health.ny.gov](mailto:monica.nordstrom@health.ny.gov)

Exposure to harmful bloom (HABs), also known as blue-green algae/cyanobacteria blooms can cause health effects in people and animals when water with blooms is touched, swallowed, or inhaled. This is true regardless of whether a blue-green algae/cyanobacteria bloom is found to produce toxin or not. Exposure to blooms and toxins can cause symptoms such as diarrhea, nausea or vomiting; skin, eye or throat irritation and allergic reactions or breathing difficulties. For more information go to [www.health.ny.gov/harmfulalgae](http://www.health.ny.gov/harmfulalgae).

The New York State Department of Health (NYSDOH) and Department of Environmental Conservation (NYSDEC), in collaboration with local health departments (LHDs), lake associations, and educational institutions, collect information on HABs and HAB-associated illness to help prevent further illnesses and improve understanding of how HABs affect human health, animal health and the environment. When reporting illness symptoms to your local health department or NYSDOH, all the information you provide is kept strictly confidential and is used only for the purposes of investigation.

Provide information about bloom-related health symptoms to your local health department, find them at [www.health.ny.gov/EnvironmentalContacts](http://www.health.ny.gov/EnvironmentalContacts) or email us at [harmfulalgae@health.ny.gov](mailto:harmfulalgae@health.ny.gov).

People and animals should avoid waters that are strongly discolored (blue-green, green, yellow, white, brown, purple or red), or with floating mats or scums, and take the following actions when needed:

- Keep people, pets, and livestock away from areas with blooms or surface scums, or water that is noticeably discolored.
- Avoid blooms when swimming, boating, fishing, and don't eat fish caught from areas of water with blooms.
- Never drink untreated surface water. Even if you treat it in your home, it's still not protected from blue-green algae/cyanobacteria and toxins. For more information see: <https://www.health.ny.gov/publications/6629.pdf>

If you or your pets come in contact with blue-green algae/cyanobacteria blooms:

- *Rinse off with clean water.*
- Consider medical attention for people and pets if symptoms such as diarrhea, nausea, or vomiting; skin, eye, or throat irritation; and allergic reactions or breathing difficulties occur after contact with surface waters with blooms

# BIRD WALK

## at the FLCC Trails

Saturday, May 25th at 7:30 am



### Event Details

**WHEN:**

Saturday, May 25<sup>th</sup> 2019  
7:30 am

**WHERE:**

FLCC Board Walk Trail  
Park at the main student  
parking lot at FLCC.

**PRE-REGISTER:**

(585) 394-5030 or  
info@canandaigualakeassoc.org

Join the Canandaigua Lake Watershed Association for an early morning bird walk on Saturday, May 25th at the FLCC trails led by Doug Daniels, a Canandaigua resident with a keen interest in birds. We will gather in the student parking lot at FLCC. Park as close as you can to the southwest corner – the woods will be across the entrance road. We will be hiking 1-2 miles at a slow pace. Bugs may be an issue so bring insect repellent as you wish and don't forget your binoculars!

The date of the walk was chosen to coincide with peak migration of passerines (songbirds) which breed in the Finger Lakes region. Many birds breed in NYS but many others move through during migration to more northerly habitats.

The walk will be led by Doug Daniels. Doug's interest in birding began when he worked as a National Park Ranger / Naturalist at Fire Island National Seashore for three summers, 1969-71. He uses eBird and has recorded nearly 400 species of birds in NYS. He has participated in all kinds of data collection and birding surveys for Audubon, The Nature Conservancy, NYS Breeding Bird Atlas and Montezuma NWR.

Space is limited to 20 attendees, so register today!

## FROM THE WATERSHED EDUCATION PROGRAM

By Becca Jensen and Beth Altemus

It has been another active school year so far for the Education Program. It has already been quite full with our mad dashes to and from streams and classrooms as we gathered aquatic insects for investigation by a few hundred sixth graders throughout the watershed. Always a hit with students, the macroinvertebrate lab is the capstone Watershed Education Program activity for the students whom we've been visiting since third grade. It brings together all the watershed concepts discussed from the last three years while also introducing new concepts and, for the first time, using the format of a laboratory experiment.

Throughout the winter we have been visiting fifth grade classrooms with our Sum of the Parts land use and community stewardship activity, as well as meeting all the Naples third through sixth graders at their school for our annual "Watershed Week", in which we bring our lessons to the kids during their regularly scheduled library time. We are always grateful for Katie Infantino, the Naples Elementary librarian, who recognizes the importance of teaching kids about water stewardship and has given the Education Program a week of her time every year since its inception.



Teacher Becca shares maps of the watershed at Naples Elementary

At the time of writing, we are scheduled to see the rest of the third graders (Canandaigua and Marcus Whitman schools) within the next few weeks with our Watershed Model demonstration. We are also thrilled to report that for the first time we have grades three through five at St. Mary's School on the calendar. Our ultimate goal is to have no gaps in visitation for grades 3-6 from every school in the watershed, and this year we are nearly there!

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We are pleased to publish this list of our 2019 Members. It is with YOUR assistance that we are able to continue our mission of protecting the water quality and overall environment of the Canandaigua Lake watershed for future generations. Thanks for your continued support!

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- The continuation of the Watercraft Steward Program at the Lake's two busiest launch sites
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John & Karen Hultz  
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Donna Williams  
Jamie Williams  
David & Suzanne Winslow  
Andrew & Karen Yudichak  
Douglas & Bridget Zimmerman  
Steve & Sue Zumbo

# Photo Contest



Show us how you  
— **love** —  
the Canandaigua  
Lake Watershed

**Capture the beauty  
of the woods, hills,  
streams, valleys and  
lake that define our  
amazing watershed.**



2018 Entry, Sara Hastings

Contest is open to amateur photographers. Up to three images may be submitted. Entries will be judged by a panel of professional photographers based on degree of creativity and overall aesthetics.

Prizes will be awarded at the CLWA Annual Meeting in August.

**Entry is Easy.** Enter by 7/31/19

1. Snap your photos around the watershed
2. "Like" Canandaigua Lake Watershed Association on Facebook.
3. Click on the Photo Contest Icon
4. Follow the upload directions
5. And then share!

You can also email us your entry:  
[info@canandaigualakeassoc.org](mailto:info@canandaigualakeassoc.org). Be sure to include a title for your photo, your name and contact info.



2017 Entry, Danielle Snow

**Enter to win GREAT local prizes!**



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Canandaigua, NY

Permit No.40

**CONTACT US:**

PO Box 323  
Canandaigua, NY 14424

585.394.5030  
info@canandaigualakeassoc.org  
www.canandaigualakeassoc.org

**Find us on Facebook!**



## 2019 CLWA Membership

### Become a friend of Canandaigua Lake.

The Canandaigua Lake Watershed Association has a strong base of supporters and a long history of protecting Canandaigua Lake and its watershed. Because of many complex and escalating challenges to the health of the watershed, we need YOUR support.

Please choose your tax-deductible level of support.

\_\_\_\_\_ \$ 50 Guardian

\_\_\_\_\_ \$ 75 Partner

\_\_\_\_\_ \$ 100 Lake Leader

\_\_\_\_\_ \$ 250 Watershed Steward

\_\_\_\_\_ \$ 1000 Benefactor (your gift supports our environmental education efforts)

\_\_\_\_\_ \$ BUSINESS MEMBER (Business Memberships start at \$100 and include a special listing in upcoming issue of The Lake Reporter)

**Membership year will begin with receipt of your application and extend to the end of the calendar year. All information you provide will be used for the sole purpose of communicating with you. We will not share it with others.**

Name / Business Name: \_\_\_\_\_

Principal Address:

E-mail \_\_\_\_\_ Phone \_\_\_\_\_

Lake area township: \_\_\_\_\_