

**Town of Wolfeboro
Wolfeboro Waters
Assessment Subcommittee Meeting
Meeting Minutes
1:00pm -Thursday August 18, 2022
Beaver Room
Wolfeboro Library
Wolfeboro, NH 03894**

Present: Bree, Jackie, Abby, Beth, Steve, Andra

Absent: Warren, Linda, Emilie

1. **Call to order:** Andra called the meeting to order at 1:00pm
2. **Meeting minutes for May 16, 2022** were approved as written.
3. **Cyanobacteria blooms -Jockey Cove; Crescent Lake and Mirror Lake (suspected)** – Andra indicated blooms were sited in Jockey cove in early July and cleared by July 4th weekend. The bloom moved further down in the cove opposite Carry Beach. Andra took a sample and confirmed it was Dolichospermum. The bloom disappeared after a couple days and didn't come back. Andra provided photos of the bloom. Andra and Bree had no information on suspected blooms on Crescent or Mirror lakes. No blooms have been sited since that time. Lake levels are currently lower than usual. There was a brief discussion of wake boats. Steve and Bree noted that newer wake boats have the ability to push the wake to one side or the other to minimize shore erosion. Bree indicated that out of state boaters will be required to have a decal indicating they have no invasive species on their boats. Steve indicated he is part of the Lake Management Advisory Council and went on a field trip to observe erosion around the lake. During the field trip, Darlene, head of shoreline protection, brought awareness of severe erosion happening in several locations, with one example seen on Pinnacle Park Rd. in Meredith. They are working on changing rule making and need public pushback.
4. **E. Coli beach closures (Carry Beach and Governor Wentworth State Park)**- These beaches were closed for about 4 days. Many swimmers were in the water there despite the closure.
5. **Zoom call with NHDES** – The committee met via Zoom with Kate Hastings on July 22. They were very interested in what WW is doing, but primarily have time to concentrate on their own projects at this time.
6. **Beth will archive and organize our data** – Bree will work with Beth to show her how data was organized by LWA so the same can be done with data from Wolfeboro Waters.
7. **Back Bay, Upper Beach Pond, and Lake Winnepesaukee sampling** – Bree and Abby trained 3 new site samplers: Brigitte and Josh at Upper Beach Pond for continued sampling in the end of August and September; Lyons for Back Bay – will sample monthly and after rain, and Barbara Fioravanti will sample 20-Mile Bay (WMO20ML) and (WMO05ML) Melvin Village. There will be 5 additional sites sampled in Alton Bay as well. Bree reported we have pretty good coverage for sampling. The issue is we don't have enough kits and enough temperature gauges (Clinefinders—they are going out of business – looking for alternatives). Need to resolve the equipment issue before training additional volunteers.
8. **Fluorometry**—a training session was held end of June on use of fluorometry was held in June. There have been no requests for its use since the training.
9. **Lake Winnepesaukee Assoc activities and capabilities—Bree**
 - a. Introduced Jackie who will help with marketing and communications and lake monitoring. Jackie previously worked with Mt. Washington weather observation. Jackie is currently involved in writing articles for the Laconia Sun and has been creating educational postcards.
 - b. Bree has done 33 Lake Smart visits and has 20+ more scheduled for rest of summer, with a goal of doubling the number she did last summer. So far, 10% of those she evaluated are eligible for awards. These visits are free and non-regulatory.
 - c. LWA has implemented a phosphate free fertilizer program. As part of the program, LWA has been giving out flyers in hardware stores around the lake. Their plan is to contact hardware stores at end of summer

to see if they sold more phosphate free fertilizer after the educational program than before. True Value will no longer sell fertilizer containing phosphate. Bree provided copies of the flyer and postcards to all members.

- d. Another LWA project is to determine the how boating impacts aquatic wildlife. There is a survey on their website, and they have had 50 responses to date. Their goal is to survey and distribute educational materials and do a post-survey to see if there is a behavior change. Bree will send out survey to all members.
- e. LWA also created a Cyanobacteria guidance document which Bree shared with committee members. The goal is to educate public as to what cyanobacteria can look like in general. The back side of the guide indicates who to contact to if a bloom is sighted. The State should still be the main point of contact. Important to take a sample right away.
- f. Additional Events: LWA representatives have been providing educational sessions at homeowners associations to increase education of public as well as 2 town presentations. LWA also participated in 150th celebration of the motor vessel Mt. Washington and provided educational brochures to public. A silent auction was held on the Mt. Washington Cruise during the gala that followed the celebration with a goal to increase involvement and membership. Lake life really is doing a benefit for non-profit and LWA will have a table there. LWA is also working to cooperate with marinas and rental companies to educate renters about lake rules and impact of boating on the lake. The Bilge sock program is also being promoted.
- g. LWA has a grant from NHDES to sample Paus Bay bi-weekly. Bree used a scanner kit when there was a suspected bloom 3 weeks ago. Information about the kit and test strips can be found at the links at the end of these minutes. After testing, it was determined to be mostly filamentous algae and Stigonematales (benthic cyanobacteria). Bree indicated there have been other reports of Stigonema on Lake Winnepesaukee. There are 2 separate test kits, one for Microcystin and one for Anatoxin A. Elisa kit has test strip that produces qualitative results – Microcystins and Anatoxin A. The kits contain the test strips that indicate if the toxin is present or not. A reader in which the test strips are inserted provide semi-qualitative data. The cost of each reader is approximately \$2,500.00. Different test strip kits are needed for different toxins.
- h. LWA has no plans for creating a public data base for the water quality data at this time. Data re: median and where stations are is all public. The Environmental Monitoring Database (EMD) has a public site that has water quality monitoring data for the entire state. This data base is not complete. Melanie Cofrin will pull data for Bree and provide it to her. Once Beth and Bree have compiled WW data, we will submit it to her.

10. PCR Training, results, and plans – Andra. We have done 3 official training sessions, one with Pete Countway and 2 with Andra training Beth and Frank Marcoux. We are hoping for one additional intensive training at Bigelow labs to refine techniques. It was suggested that it might be better to hire students next summer to run samples for consistency. Bree suggested reaching out to Amanda for possible students at UNH or Plymouth State. Lisa Doner might also have ideas of students interested in this. Another possible resource would be Pete Countway.

11. New business –

- a. **Proposed purchase of mini-centrifuge, Microcystis-red probe, PETG bottles** – Total is \$2000.00 and \$1000.00 on Elisa test strips. Motion to approve purchase was seconded and approved.
- b. **Location for our PCR Lab**— We would like to move the PCR lab from Warren’s porch to a location that would allow year-round availability. Potential places could be somewhere in the town hall or the town water department. Abby indicated Wentworth Watershed has a small facility where they process water samples that might be considered and it has a freezer.
- c. **2023 intern? (see above)**
- d. **What do we think is going on and what should we try to figure out?** – Abby indicated we are surprised to find most of the P is dissolved instead of particulate.

- e. **Working with Lake Associations/communications** -- Abby indicated we are doing pretty well with this. When there is an overflow of samples being held at Winnepesaukee Dive Abby takes them to Wentworth storage. All agreed it is important to get information from other associations regarding blooms and beach closures.
 - f. **Other new business** – None.
12. **Public comments** – None.
 13. **Schedule for our next meeting.** – Andra confirmed use of the Beaver Room at the Wolfeboro Library for our next meeting Tuesday October 11, 2022 from 1 -3pm.
 14. **Adjournment** –Motion to adjourn was made and seconded. Adjourned at 2:45pm

Links for Test kits and readers

1. <https://abraxis.euofins-technologies.com/media/10439/eurofins-abraxis-abrascan-reader-flyer-2021-06-28-hires.pdf>
2. https://abraxis.euofins-technologies.com/media/15379/ug-21-120-rev-02-abrascan-rds-2500-reader_475025b.pdf
3. <https://abraxis.euofins-technologies.com/home/products/instruments-equipment/test-strip-readers/abrascan-dipstick-reader-iii-handheld-reader/>
4. <https://abraxis.euofins-technologies.com/home/products/rapid-test-kits/algal-toxins/algal-toxin-test-strip-kits/>
5. <https://abraxis.euofins-technologies.com/home/products/rapid-test-kits/algal-toxins/algal-toxin-test-strip-kits/anatoxin-a-vfdf-0-25-ppb-dipstick-source-drinking-water-5-test/>
6. <https://abraxis.euofins-technologies.com/home/products/rapid-test-kits/algal-toxins/algal-toxin-test-strip-kits/microcystins-0-5-ppb-source-drinking-water-with-quicklyse-feature-dipstick-5-test/>