

2022 Annual Report

Presented at the May Member Meeting

The Lawson Center, Bemus Point, NY & via Zoom

May 11, 2023

History of the Alliance



- ☐ 501c3 Non-Profit Member Organization
- ☐ Evolved from the Chautauqua Lake Management Commission (CLMC) in late 2014
- ☐ Established *for the benefit of all lake and watershed stakeholders*
- Our Mission:

The Chautauqua Lake & Watershed Management Alliance, working in collaboration with lake and watershed-related organizations, municipalities and other stakeholders, will promote and facilitate implementation of recommendations from the Chautauqua Lake Watershed Management Plan and the Chautauqua Lake Macrophyte Management Strategy by prioritizing projects, securing funding and allocating resources.

Alliance Members



- Village of Bemus Point
- Village of Celoron
- Village of Lakewood
- Village of Mayville
- Jamestown Board of Public Utilities
- Chautauqua Watershed Conservancy
- Chautauqua Lake Association
- Chautauqua Lake Partnership
- Chautauqua Lake Fishing Association
- Arnold Holmberg Foundation
- North Chautauqua Lake Sewer District

- Town of Busti
- Town of Chautauqua
- Town of Ellery
- Town of Ellicott
- Town of North Harmony
- Chautauqua County Visitors Bureau
- Chautauqua-Cattaraugus Board of Realtors
- The Lenna Foundation
- Chautauqua Institution
- County of Chautauqua
- South and Center Chautauqua Lake Sewer Districts

Alliance Structure



Board of Directors (May 2022 to May 2023)

- **1. Bruce Erickson** Chair (Chautauqua Lake Association)
- **2. Don Emhardt** Vice Chair (Town of Chautauqua)
- Janis Bowman Secretary (Chautauqua Watershed Conservancy)
- **4. Ellen Barnes** Treasurer (Village of Lakewood)
- **5. Jim Andrews** (Town of Busti)
- **6. Marty Proctor** (County of Chautauqua)
- 7. Mike LaTone (Chautauqua Lake Partnership)
- **8. Dave Shepherd** (Arnold Holmberg Foundation)
- **9.** Paul (P.J.) Wendel, Jr. (County of Chautauqua)

Alliance Members

Committees

- Lake Management Committee
- Watershed Management Committee
- Data Analysis & Research Committee

Staff

- Executive Director
- Project Manager
- Communications Coordinator

Acknowledgments



- Members and founders of the Chautauqua Lake Management Commission (CLMC)
- Our Founding & Current Members
- County of Chautauqua
- Ralph C. Sheldon Foundation
- Chautauqua Region Community Foundation (CRCF)
- The Lenna Foundation
- Arnold Holmberg Foundation
- Hultquist Foundation
- Gebbie Foundation
- Committee Volunteers
- Individual Contributors
- Past & Present Board of Directors



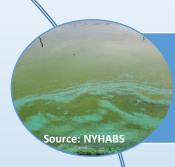
Our Shared Resource that is CHAUTAUQUA LAKE





Our Collective Challenges, Our Collective Opportunities





- -Internal Loading (Nitrogen and Phosphorus)
- -Harmful Algal Blooms (HABs)
- -Drinking Water Protection, Climate Change



- -Nuisance Aquatic Plant Growth and Human Conflicts (Native & Invasive)
- -New Invasive Species Threats
- -Shoreline Conditions



- -Flooding and Property Loss due to Erosion
- -Excess Sediment and Nutrient Loading From Watershed, and Other Pollutants (e.g., salt)
- -Loss of Habitat/Biodiversity

Complex System, Comprehensive Focus



Example Lake Projects

- · Aquatic plant harvesting
- Shoreline, Near-shore, and debris clean-up
- Chemical aquatic plant management
- Invasive species programs/removal

Example Watershed Projects

- Stream stabilization
- Municipal storm water management
- Lake access/amenities
- Riparian Buffers
- Wastewater (septic/sewers)

Example Research/Monitoring

- Nutrient monitoring
- HAB monitoring/reporting
- Fisheries assessment
- Lake monitoring and modeling
- Plant and lake condition surveys
- Public research panels







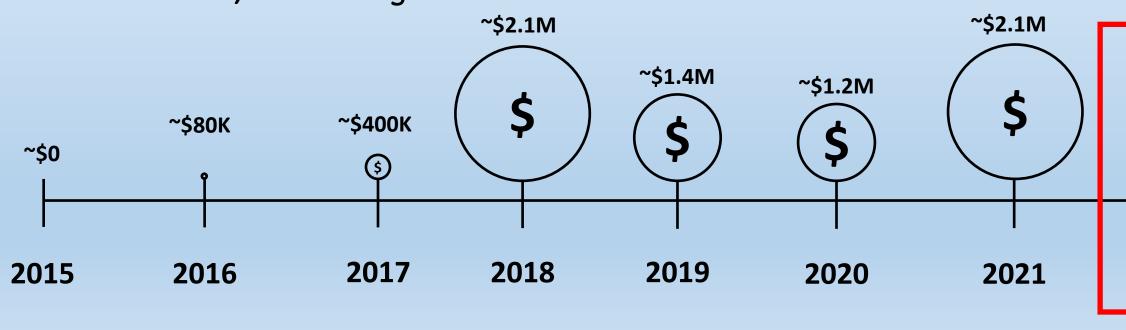
Progress through Partnership



~\$1.9M

- ☐ Alliance-Partnered Projects, ca. 2015 2022
- ~100 grants/projects/programs, Valued at >\$9 Million
- ☐ Blend of *Lake, Watershed, and Research/Monitoring*





2022

2022 Chautauqua Lake Management – Our Members at Work



- Lake-wide service
- Joint Operations & Collaboration
- Large debris cleanup (May)
- Near-shore/Shoreline cleanup (May-Sept)
- Aquatic plant harvesting
 - Early season, esp. Curly Leaf Pondweed May/June
 - Regular season (~June-Sept)
- Late-season cleanup focused on Lower So. Basin (Sept)
- ~10.7M pounds of weeds and debris removed
- Herbicide treatments via NYSDEC permits
 - Aquathol K (Curly Leaf Pondweed) May; ~101 ac
 - ProcellaCOR EC (Eurasian Watermilfoil) June; ~369 ac
- Aquatic plant surveys
- New AIS prevent, detect, remove
- GPS/GIS
- Reporting of completed & planned work
- Continue to evaluate equipment, methods & needs



Intercepting New Invasive Species



☐ <u>Prevention</u>

- Chautauqua Lake Association Watercraft Stewards staffing boat launches around the lake
- Plus, NYSDEC and WNYPRISM steward programs

□ *Early Detection*

- Invasive Plant Paddles led by Chautauqua Watershed Conservancy
- Community education by CWC

☐ Rapid Response

- Removal of invasive water chestnut by CWC and Audubon Community Nature Center – over 200 plants removed in 2022
 - 200 plants could produce ~4K new seeds & ~40-60K new stems
- Survey and management planning for starry stonewort by CWC – identification and mapping of over 7 acres of impacted littoral zone in 2022
- Starry stonewort removal pilot by CWC, CLA, Alliance, SWCD, CCC, ACNC, and volunteers



Long-term Investments in the Watershed



- In progress Chautauqua Watershed Conservancy Watershed Technical Assistance and Stormwater Management Program
- In progress Village of Lakewood Grandview Stormwater Management Project
- In progress Town of North Harmony Ball Creek Stabilization Project
- In progress Town of Chautauqua Roadside Swales Stabilization Project
- Coming soon Town of Chautaugua Stream Culvert Assessments NPG
- Coming soon Town of North Harmony Ball Creek Stabilization Engineering Study Phase II NPG
- Coming soon Village of Lakewood Commercial Corridor Stormwater Engineering Study Mall Boulevard NPG
- Major Projects Closed in 2022 Busti Swales Retrofits, Chautauqua Ave Green Street, Dutch Hollow and West Dutch Hollow Creek Stabilizations
- Utilizing local investments to leverage bigger NYS grants.
- Stream stabilization, culverts, flood reduction, and other projects completed, in progress, or planned.
- Several developed with help from Chautauqua Watershed Conservancy as part of locallyfunded programs that also include homeowner and business consultation and technical assistance.
- Using engineering planning studies to identify & develop projects for capital funding.
- Plus, many other partners over the years e.g., Soil & Water, County, other Towns & Villages.
- Other watershed work also being advanced by Soil & Water, CWC, Highway Departments, County, and others.



Collaborative Research Initiatives



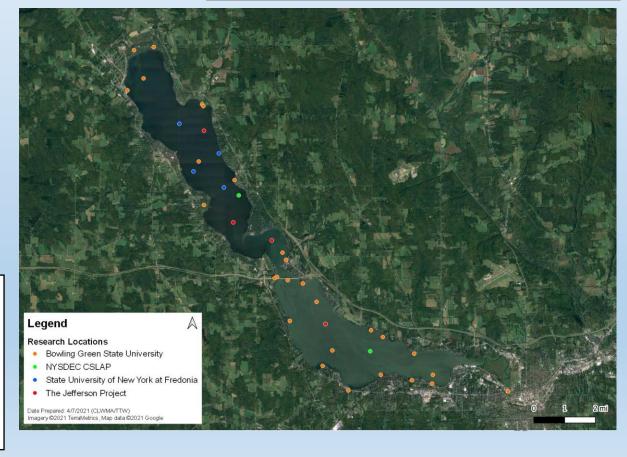
- □ Collaborative research efforts by leading experts in lake dynamics, HABs, environmental monitoring & modeling
- □Sharing & coordination of data/planning
- □"Science towards Solutions" approach
- □ Actionable data & information for decisionmakers
- **□**Public updates
 - UPCOMING for 2023 Chautaugua Lake Conference hosted by **Chautauqua Institution (6-17)**
 - See all at: http://www.chautauquaalliance.org/data-and-research/

THANK YOU! The Jefferson Project at Lake George, Bowling Green State University, SUNY Fredonia, SUNY Oneonta, SUNY ESF, CSLAP (NYSDEC & Volunteers), NYHABS, North Carolina State University, Racine-Johnson Aquatic Ecologists, SOLitude Lake Management, Princeton Hydro, and More









Looking Ahead





- 2023 Coordinated Lake Work Plan and New Watershed Initiatives led by Members
- **☐** 2023 NYS Consolidated Funding Application opportunites
- ☐ Alliance Consolidated Local Funding Program
- Expanded research to fill critical data gaps
- □ Prioritizing long-term datasets
- Forging new partnership opportunities
- ☐ Continuing to explore more sustainable lake funding options

Getting the Word Out

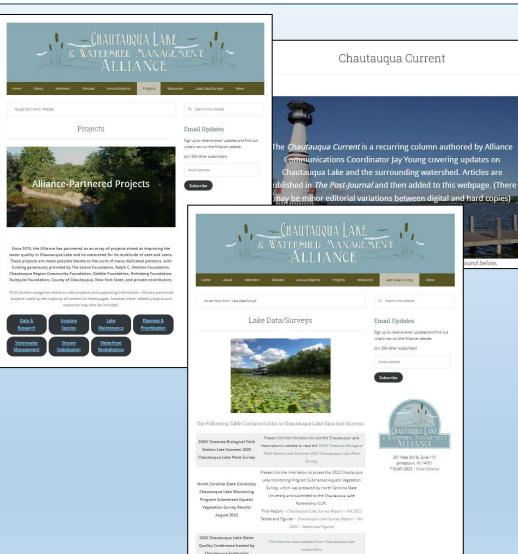


- Recent website updates including comprehensive 'Projects' page.
- Rapid dissemination of data/info.
- Hub for lake-related data and surveys and other resources.
- Chautauqua Current Recurring column in partnership with The Post-Journal, covering lake and watershed topics
- Meetings, press releases, emails, etc.
- Build trust, build interest & awareness... and keep it.
- Linkage of information & awareness to action & results e.g., 2022 starry stonewort.

Next Public Board Meeting Thu 7/13/23 @ Lawson Center, Bemus Point (2nd Thu of Jan, Mar, May, Jul, Sep, and Nov)

Please visit us at: http://www.chautauquaalliance.org/

And, visit our Members' websites to learn more.



Thank You!



- Randall Perry, Executive Director
 - rperry@chautauquaalliance.org | (716) 661-8923
- Taylor West, Project Manager
- Jay Young, Communications Coordinator
- Website: http://www.chautauquaalliance.org/
 - Full Version of 2022 Annual Report and copy of this presentation will be available online soon.





