



2019 Annual Report

Presented at the May Member Meeting

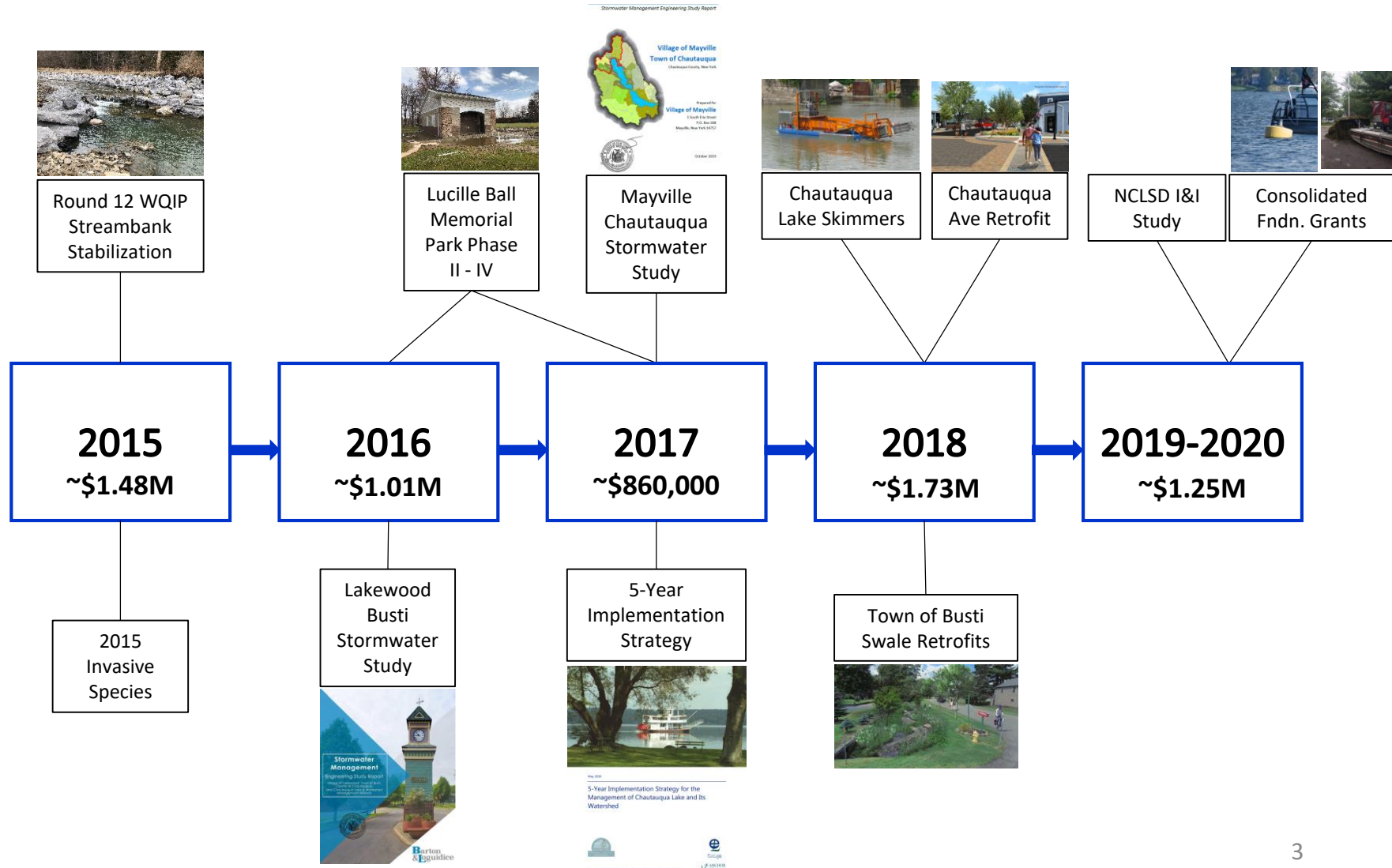
May 14, 2020

History of the Alliance

- Evolved from the Chautauqua Lake Management Commission (CLMC) in late 2014
- Established for the benefit of all lake and watershed stakeholders
- 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**.

Timeline of Alliance Major Milestones

56 Total Projects = ~\$6.33 Million = ~\$1.2Million/Year



2019-2020 Members

- Village of Bemus Point
- Village of Celoron
- Village of Lakewood
- Village of Mayville
- Jamestown BPU
- Chautauqua Watershed Conservancy
- Chautauqua Lake Association
- Chautauqua Lake Partnership
- Audubon Community Nature Center
- Roger Tory Peterson Institute
- 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
- NYS OPRHP-Allegany Region
- Chautauqua-Cattaraugus Board of Realtors
- The Lenna Foundation
- Chautauqua Institution
- Chautauqua County Chamber of Commerce
- County of Chautauqua
- South and Center Chautauqua Lake Sewer District

State Grant Funded Alliance-Partnered Projects

- **County Round 12 WQIPs** (Streambank Stabilizations)
- Chautauqua Lake Invasive Species Control Project - NYS
- County Lake Skimmers – WQIP
- Lakewood-Busti Stormwater Study – EPG
- Lakewood Chautauqua Ave – GIGP
- Busti Swales – WQIP
- **Village of Celoron Lucille Ball Memorial Park Improvements** – LWRP
- Mayville-Chautauqua Stormwater Study – EPG
- Orchard Terrace I&I – EPG



Source: Busti Swale Retrofit Project

Dutch Hollow Creek Main Stem Restoration (Round 12 WQIP)

- Stabilized 1,100-foot-long section of Dutch Hollow Creek
- Completed in Fall 2018
- Features:
 - J-hooks
 - Cross Veins
 - Rip-Rap Bank and Toe Protection
 - Riffle Grade Control Structures
 - Riparian plantings
- *Funding provided by the NYS DEC Water Quality Improvement Program, Chautauqua County, and reallocated Chautauqua Lake Management Commission funds*



Lucille Ball Memorial Park Improvements – Village of Celoron

- Replacement of a failing 430-foot-long concrete sea wall
- Shoreline stabilization and installation of 390-foot-long timber boardwalk
- New ADA accessible Kayak/Canoe Launch
- New Amenities Building
- *Funding provided by the NYS DOS LWRP Program & Village of Celoron*

ADA Kayak and Canoe Launch



Amenities Building



Source: Doug Justham



Locally Funded Alliance-Partnered Projects

- 5-Year Strategy
- 2017 County Contingency Funding
- 2018 Sheldon Foundation Grant Referrals
- 2018 – 2020 Alliance Consolidated Foundation Grant Program
- 2019 Burtis Bay Clean-up



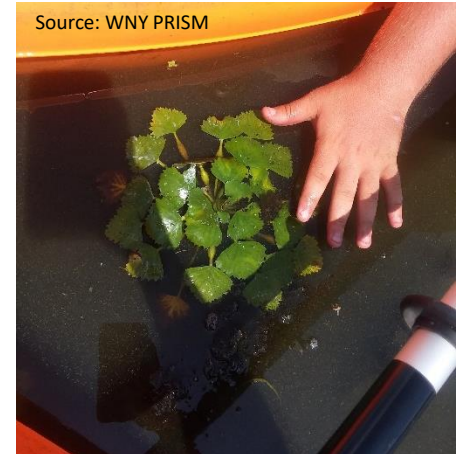
Water Chestnut Plant in
Chautauqua Lake Outlet
ca. 2019



2019 Herbicide
Application by
SOLitude Lake
Management

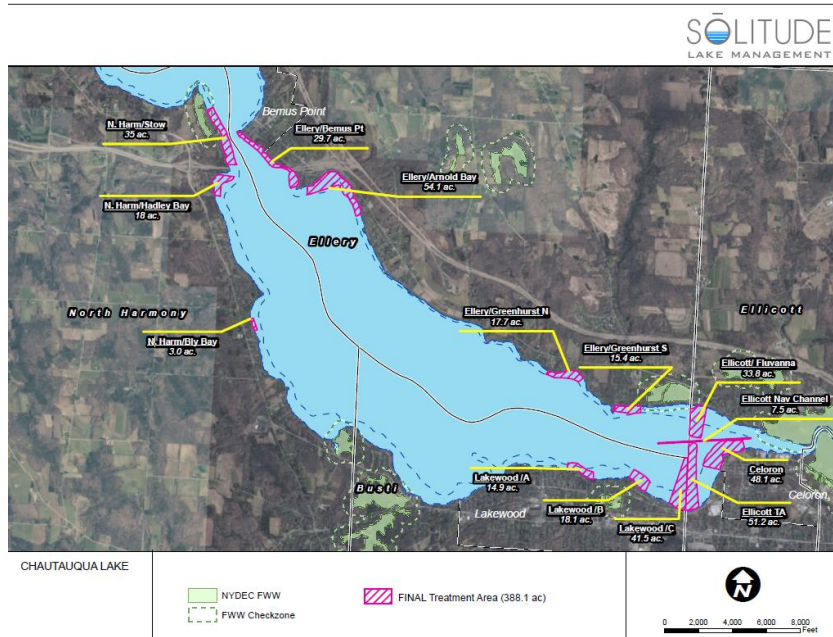
2019 Alliance Consolidated Foundation Grant (n=8)

- 5 Municipalities led a targeted herbicide treatment program in the South Basin
- CLA Operational Support
- CWC Starve the Algae! Save the Lake!
- Invasive Species Volunteer Taskforce
- *Funding provided by the **Sheldon Foundation, Chautauqua Region Community Foundation, and the County of Chautauqua***



2019 NYS DEC Permitted Targeted Herbicide Treatments

- 388 Acres of Chautauqua Lake were treated
 - Aquathol K (Endothall)
 - Navigate (2, 4-D)
- Resulted in improved recreational use of Chautauqua Lake



CLA Operational Support and Extended Season

- Lake Wide Harvesting, Near shore maintenance, Spring Debris removal, scientific monitoring, public outreach
- Regular Season: 4,337 tons of macrophytes removed
- Extended Season: 156 tons of macrophytes
- *Funding provided by **The Lenna Foundation, Sheldon Foundation, Chautauqua Region Community Foundation, and County of Chautauqua***



Source: Alpha Boats

Burtis Bay Spring Clean-Up

- November 2018 accumulation of weeds and organic material
- 2,950-foot-long section of Burtis Bay
- 4/29 – 5/13/19 clean-up by the CLA, Town of Ellicott, County of Chautauqua, Village of Celoron, and Alliance
- Results: improved aesthetics and reduced phosphorus and nitrogen load to the Lake.
- *Funding provided by the Chautauqua Region Community Foundation, County of Chautauqua, Sheldon Foundation & Alliance*

Source: Randall Perry

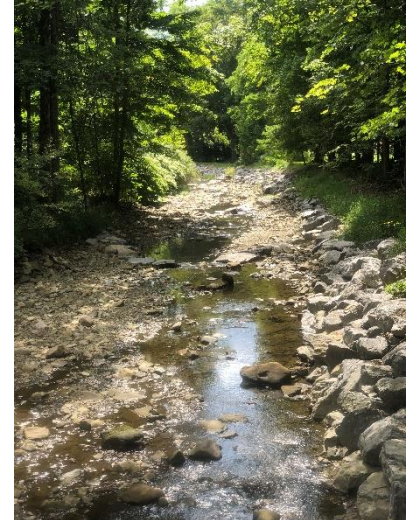


Source: Randall Perry



2020 Alliance Consolidated Foundation Grant

- **Balanced Approach**
 - Watershed (n=3)
 - Address sources of nutrient loading
 - Long-term impacts
 - Lake (n=12)
 - Addresses the symptoms of excess sediment and nutrient loading
 - Improves short-term usability of the lake
 - Prevents invasive species introduction and establishment
- *Funding provided by the **Chautauqua Region Community Foundation, Sheldon Foundation, Lenna Foundation, and Gebbie Foundation***



Source: Don Emhardt



2020 Watershed Projects

- Starve Algae! Save the Lake!
- Grandview Stormwater Management
- RTPI Chadakoin River Basin Erosion Mitigation Study



2020 Chautauqua Lake Projects

- Targeted Herbicide Treatments (n=6)
- Phosphorus Sensors
- Weed Survey
- Harvesting and Near-Shore Joint Operations
 - Mobitracs
 - CLA Operational Support
- RTPI Invasive Species Volunteer Taskforce
- Audubon Water Chestnut Rapid Response



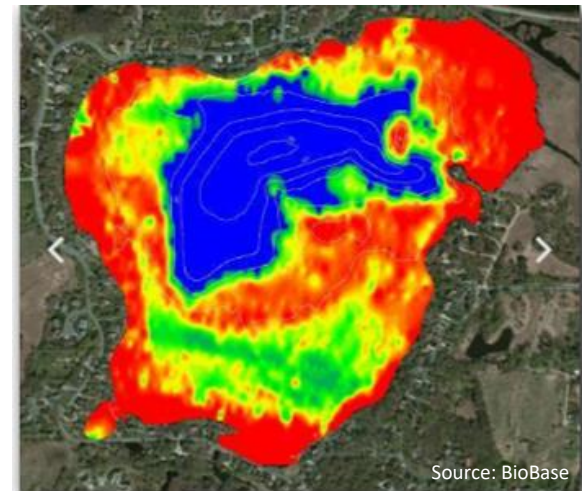
Source: PostJournal



Source: Don Emhardt

Chautauqua Lake Aquatic Data (CLAD) Mapping

- Deployment in Spring 2020
- Data gathered by Lowrance sonar
 - BioVolume (% of water column plants occupy)
 - Depth
- Data processed by BioBase program
- Used to make informative maps about macrophyte growth and sedimentation to assist members with lake maintenance



Alliance Committees

- **Lake Management Committee** – coordinate and collaborate about lake management
 - MMS Subcommittee – provide updates to the MMS
 - MOA Subcommittee – planned for Fall 2020
- **Watershed Management Committee** – recommend watershed projects for grant submission
- **Scientific Review and Advisory Committee** – provide recommendations to Alliance Board regarding Alliance projects



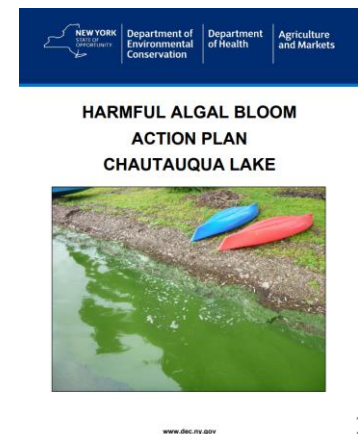
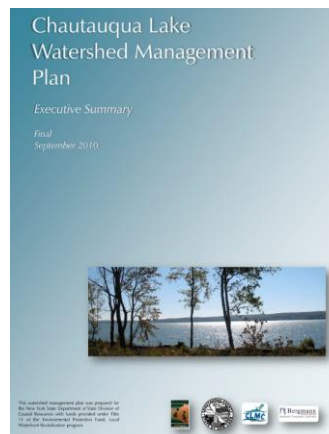
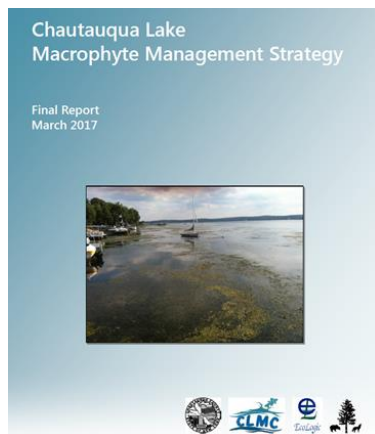
Chautauqua Lake Macrophyte Management Strategy

Final Report
March 2017



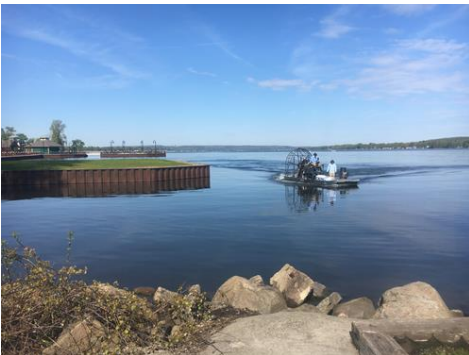
Planning & Guiding Documents

- 2010 Watershed Management Plan
- 2017 Macrophyte Management Strategy
- 2018 5-Year Strategy for Chautauqua Lake and its Watershed
- 2018 Chautauqua Lake HAB Action Plan
- 2019 Chautauqua County Memorandum of Agreement
- Stormwater Studies



Summary

- Continue to use a balanced approach for lake and watershed management by utilizing current guidance documents and emerging technologies/approaches
- Focus on unity of effort and facilitating partnerships for improved and responsive Lake Management
- Collect/gather lake and watershed data to better understand and manage the lake and watershed



A Look Ahead

- Unity of effort in near-shore and shoreline clean-up
 - Increased efficiency and responsiveness
- Unified macrophyte management approach
 - Harvesting
 - Herbicides
 - Skimmers
 - Mobitracs
 - Other
- Increased data & research for data-driven decision making
- New GPS Integration Program
- MOA & MMS support
- Bringing lake stakeholders together
- Promising new watershed projects



Source: Courtney Wigdahl-Perry



5/2019 – 5/2020 Board of Directors

- Pierre Chagnon – Chair
- Ted McCague – Vice Chair
- Dave Shepherd – Secretary
- Jim Andrews – Treasurer
- Mike Latone
- Mike Jabot
- Paul Wendel
- Bruce Erickson
- Rob Yates

Special Recognitions

- Members and founders of the Chautauqua Lake Management Commission (CLMC)
- County of Chautauqua
- Sheldon Foundation
- Chautauqua Region Community Foundation (CRCF)
- The Lenna Foundation
- Holmberg Foundation
- Gebbie Foundation
- Our Founding & Current Members

Thank You

- Vince Horrigan, Alliance Interim Executive Director
 - horriganv@co.chautauqua.ny.us
- Randall Perry, Alliance Project Manager
 - rperry@chautauquaalliance.org
- Taylor West, Alliance Communications Coordinator
 - twest@chautauquaalliance.org
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