



CANDLEWOOD LAKE AUTHORITY

P.O. BOX 37 • SHERMAN, CONNECTICUT 06784-0037 • (860) 354-6928 • FAX (860) 350-5611

Minutes of Regular Meeting

June 14, 2017

Attending:

P. Schaer	Sherman
G. Linkletter	Sherman
D. Cushnie	Sherman
J. Murphy	Brookfield
W. Lohan	Brookfield
B. Brown	Brookfield
M. Toussaint	New Milford
J. Wodarski	New Milford
C. Robinson	Danbury
D. Rosemark	Danbury
J. Hodge	New Fairfield

Absent:

P. Eng	New Milford
E. Siergiej	Danbury
J. Keating	New Fairfield
B. Kemble	New Fairfield

F. Frattini, CLA Administrative Coordinator
M. Howarth, CLA Public Education Director
L. Marsicano, CLA Executive Director
R. Barnard, CLAMP (left 7:55PM)

Recorder: F. Frattini

Guests:

M. Propper, Danbury
S. Randall, Sherman
S. Wodarski, New Milford
G. Slomba, *Town Tribune*
Anna Quinn, *News Times*
J. McCartney, New Fairfield
K. Hall, New Fairfield
K. Gately, Danbury
Mary, Danbury
K. Gucker, Danbury
D. Davidson, Danbury
J. McAlister, New Fairfield

Chairman, Phyllis Schaer, called the regular meeting of the Candlewood Lake Authority to order at 7:35 P.M. at Brookfield Town Hall, Brookfield, CT. She welcomed the guests.

Public Comment: John McCartney of New Fairfield spoke as the founder of Candlewood Voices that has members from the five towns and beyond and to voice his sadness at the departure of Larry Marsicano. He expressed concern noting for the CLA to not let his experience slip away and to work with Aquatic Ecosystems Research to protect the lake for all and future generations. Candlewood Voices supports the CLA and will work to help with the actions of any of the lake Towns that affect the lake, good luck Mr. Marsicano.

Mary from Danbury asked about the installation of "Slow No Wake" Buoys at Dike's Cove in New Milford and explained the reason for the request. She was advised that this would be referred to the Public Safety Committee. Mr. Hodge advised that if these buoys are applied for with DEEP that a Public Hearing may be necessary. Capt Barnard of CLAMP added that the Lake Patrol is aware of the situation there and are addressing it at this time.

Diane Davidson of Danbury advised that last year Pleasant Acres added docks at their community marina and the docks now extend beyond her lakefront. She also noted that this has created no flow in that area and subsequent algae blooms. Mrs. Schaer advised her that she could contact FirstLight and the City of Danbury and the CLA has no authority on this as it below the 440 (Rocky River project boundary).

Jim McAlister advised that this lake is one grand resource and it is embarrassing to see the Authority dysfunctional because of the actions of two or three delegates not working on behalf of the CLA. They should have to pledge allegiance to work with the CLA with teamwork and to create a vision for the future. If they are not willing to do this, they should resign. The Authority needs a new approach to public outreach on aquatic invasive species, blue green algae, storm water management and a set of five Town controls. The CLA needs new revenue sources, a comprehensive approach on how to target the scientific research that has been created under the CLA, and the residents need to get serious. This is one lake; it needs one coordinated strategic effort of all. Now is good chance for a new charge. Bill Brown advised Mr. McAlister "you are fantastic, you are one good person who truly cares about the lake, thank you.

Ken Gucker of Danbury just wanted to thank Mr. Marsicano for all that he has done. This was his first-year volunteering at the Clean Up and will do it again. Mr. Marsicano will be missed. He noted that only the negatives are out there, not the positive things that are done, there are just too many negative stories, Larry and the CLA just do not get accolades for all that they do. The Authority needs to inform residents on what is happening so that they will see the big picture. He applauds Mr. Marsicano and hates to see him go, he inspired many residents to get involved that now they are stepping up to support the CLA.

Phyllis Schaer read into the record a Proclamation from the Congressional Record as written by Congressman Elizabeth Esty on the departure of Larry Marsicano from the CLA. A copy of the Proclamation is attached to these minutes. Mrs. Schaer noted that it said it all.

Mrs. Schaer noted a few items to be added to the Agenda:

1. Resignation of the Executive Director
2. Transition and job search
3. Water Quality/Data and collection
4. Lake Patrol Policies
5. FOIA Hearing
6. Carp stocking
7. New Patrol Boat launch
8. CLA Goals
9. Revision of Job Descriptions
10. Bylaw Change

She noted that some of these items were from last month, the Executive Committee meeting or recent developments. *Bill Lohan made a motion to add all of the above to the agenda, seconded*

by Jerry Murphy and voted with all in favor and John Hodge opposed noting they should have been on the original agenda, motion carried and items will be added.

CLAMP/Public Safety Committee:

CLAMP Capt. Barnard reported that so far patrol has been going well. They are addressing complaints of rafting boats and noise as well as fishing tournament early starts. Discussion on noise followed noting that the decibel limit is for boat engines not music or voices. The Towns would need to enact a "Noise Ordinance" that the local police would be able to enforce. The Patrol is ready for the fireworks with the two jet skis out before dusk, five boats and twelve officers. There have been a few problems at the marina with the theft of bumpers and dock line from the new boat. All the officers like the new patrol boat.

Public Safety Committee Co-Chairman, Joe Wodarski reported on the revised internal directives for the patrol officers "Routine Patrol Policies and Procedures". Mrs. Schaer advised that as these are internal procedures of the Patrol and do not require DEEP approval. With no discussion, *Jerry Murphy moved to approve and accept these Policies and Procedures, seconded by Bill Brown and voted with all in favor.* Capt. Barnard thanked the delegates and advised these procedures will go in effect immediately. He then added on behalf of all the Lake Patrol Officers to Mr. Marsicano thank you for all your help and good luck in the future.

Secretary's Report: *Jerry Murphy, Secretary, made a motion to approve the minutes of the April 12, 2017 meeting as written, seconded by Bill Lohan and voted with all in favor. Minutes have been accepted as written.*

Chairman's Report: Phyllis Schaer, Chairman reviewed the CLA Job Search and Transition Plan Overview, which is attached to these minutes noting that Mr. Marsicano will continue with the water quality testing and year-end report for this season and that the HR Committee has been reinstated with Mark Toussaint, as Chairman, Bill Lohan, Doug Cushnie, Dan Rosemark and Bruce Kimble and Phyllis Schaer CLA Chairman. This represents one delegate from each Town and their work will begin soon.

Recent activity includes the stocking of 4,450 grass carp last Thursday, meetings with Brookfield First Selectman Dunn, Sherman First Selectman Cope and Danbury Mayor Boughton to apprise them of what the CLA is doing. She and the new Patrol boat were in the Sherman Memorial Day parade, she and Mr. Marsicano attended a FOIA hearing in Hartford on the complaint filed by New Fairfield Delegate John Hodge regarding the delay in the CLA supplying him with three years of correspondence of the Executive Director with local legislators. The requested information was supplied prior to the hearing and concerned parties attended, Mrs. Schaer noted that Mr. Linkletter attended as a witness for Mr. Hodge. Mr. Linkletter was not permitted to participate in the hearing. CLA is awaiting a determination from the Commission. Bill Brown of Brookfield noted that for the 4 years he has been on the CLA Mr. Marsicano has been unfairly treated by some delegates, he was maligned with political prejudice for his concern and love of this lake, he is so sorry to see Mr. Marsicano go.

Mrs. Schaer reported on the updated version of the job descriptions that had been sent to the delegates noting that they more accurately reflect the description of present employees and what they do, the HR Committee may modify as the CLA moves forward. She asked delegates to put these into the delegate binders. She noted that committee goals had also been distributed and asked the delegates to review and if there are any questions to contact either the committee chairman or her.

Vice Chairman's Report: Mark Toussaint noted that as he was involved in the hiring of Mr. Marsicano he is working on resurrecting the tools used in that job search. It is unlikely that

the CLA will find someone who has all the qualities of our present Executive Director. Mr. Toussaint mentioned that during Mr. Marsicano's interview, Harold Mayer asked him "Will you fight for this lake?" Yes, of course and the job was his.

Treasurer's Report: Bill Lohan, Treasurer, reported that as of May 31st income to date is 95% of budget, and he does not expect much more at this time. Expenses year to date are 76% of the budget. He advised that he expects June expenses to be around \$50,000, which should leave around \$52,000 unspent, this amount if of course subject to Audit adjustments. He reported that there was good support for the Grass Carp stocking with donations from Goldring Family Foundation \$6,000, Club-A \$7,000, Jeff and Karla Mortara \$1,000 and FLPR \$7,000 a total of \$21,000 for the stocking. He noted that as there was no May meeting, a proposed budget transfer sheet to May 31st had been sent to the delegates and now outlined the adjustments as follows: Transfer \$95.27 from Line #112 Admin. Coord. Fringe to Line #110 Admin Coord Wage; \$382.92 from Line 123 Computer HW/SW to Line #115 Office Supplies; \$183.12 from Line #123 Computer HW/SW to #116 Postage; \$114.83 from Line #123 Computer HW/SW to Line #121 Expenses; \$95.17 from Line #226 Work Boats to Line #225 Office Equipment, \$30.52 from #226 Work Boats to Line #227 Vehicle, \$705.48 from Line #300 Wage on Water to Line #300A Wage off water, \$1409.88 from line #300 Wage on Water to LP Training \$1863.94 from Line #423 School Programs to Line #402 PE/Fringe Benefits, \$372.39 from Line #413 School Programs to Line #414 Subscriptions and \$53.897 from #413 School Programs to Line #416 Merchandise for a total of \$5,306.29, *Bill Lohan moved that these transfers be approved, seconded by Dan Rosemark, the motion was voted with all in favor.*

Bill Lohan moved that the Treasurer's Report including the Profit and Loss Budget vs. Actual for the month ended May 31, 2017 be approved as presented. Seconded by Mark Toussaint and voted with all in favor. Treasurer's Report for the month ended May 31, 2017 has been accepted and filed for audit.

Executive Director: Mr. Marsicano Executive Director, advised his reports for April and May are attached to these minutes and then noted the highlights: The Freedom of Information Complaint hearing, proposal for use of chemicals in New Fairfield, an article he wrote for the CT Chapter of the Sierra Club, supplemental stocking of Grass Carp, thank you to Ben Toussaint and George Buck for their help on carp stocking day, FLPR Buffer Progress Report and request or extension to provide aerial flyover/in-use boating date, internships by local high school students, water quality, comments on 39 Wanzer Hill Road, Sherman, changes at Dikes Point, New Milford, Sherman Memorial Day Parade, Annual Clean Up, acceptance of paper for publication in Lake and Reservoir Management Journal, and his resignation. He advised on the research at WCSU and poster he brought on the testing for the genes for cyanotoxin production. He thanks everyone for their kind words and added I am not moving, I care deeply about this lake and it has been an honor to have worked here and he is looking forward to working with Dr. Mark June-Wells.

John Hodge asked if there was an estimate on the amount of milfoil this year? Mr. Marsicano advised that the mapping will be done in August.

In response to a question, Mr. Marsicano noted that before he was the CLA Executive Director the water quality work was done by WCSU and Connecticut College – which are science based and not emotional, universities have rigorous stats and peer reviews.

Mrs. Schaer noted that during carp tracking researchers found 8 plus tracked fish in Shelter Harbour Cove that is the largest number of fish with trackers in one area. They found that with the pontoon boat they can get closer to the fish.

It was noted that the effective drawdown this past winter was effective in the shallow areas as it was not a deep drawdown.

Public Education Director/Public Awareness Committee:

Mark Howarth, Public Education Director, noted his reports are attached to these minutes. Sponsorship did well (over budget) this year, the 2017 magnets are out, getting ready to advertise the donated Chris Craft, newsletter went out, new Patrol Boat in the Sherman Memorial Day Parade, speeders in Lattins Cove, he spoke to DEEP Boating Division about asking the Boat Education Assistants at the ramp to remind those launching boats that it is a no wake zone in the cove, extra CLAMP coverage there and a thank you from residents. He had met with Ed-Advance about an educational one-day program for third to fifth graders on August 4th, carp stocking, press release on fireworks will go out next week, installing new “Stop Aquatic Hitchhikers” signs at local boat ramps, and an increase in Face Book followers. Mrs. Schaer advised that the bench to honor Harold Mayer will be installed at Lynn Demming after approval from Park and Recreation as to location.

Mr. Howarth added that while working with Mr. Marsicano he has learned more about lake science than he never knew was possible, Mr. Marsicano's passion and excitement about how a lake works just rubs off on him in the office.

Committee Reports:

Public Awareness Committee: Chair George Linkletter reported they had met and discussed coverage for Village Fair Days – volunteers needed July 28 and 29. They agreed on packaged responses for messages on AIS, blue-green algae, etc. to be prepared for the season. Prepare a buffer video using drones, bring back Project CLEAR, create a matrix of activities for the year by month, fundraising email appeal this summer and begin a PFD donor/loaner program. It was noted that CLA should hear sometime in July if Ed-Advance's Grant for Project CLEAR has been fronded for the next school year.

Equipment/Facilities: In the absence of the Committee Chair there was no report. Mrs. Schaer advised that Bill Brown is now a member of this committee.

Watershed Management Committee: Mark Toussaint, Committee Chairman noted everything has already been covered previously.

Old Business: Mrs. Schaer reported on the first tabled item: and read the proposed By-Law change as follows (*changes/additions in italic*):

Article VII – FINANCES

SECTION 1. Financial support shall be provided by the member towns as provided in accordance with Section 7-151A of the Connecticut General Statutes or as amended.

SECTION 1a. Member towns are billed on the July 1st of the new fiscal year for the approved fiscal year Budget Appropriation. Payment is due on or before July 31st unless an agreed payment schedule has been previously approved by the board.

SECTION 1b. Member towns whose payments are in arrears may attend meetings of the Candlewood Lake Authority but are not considered members in good standing. They may not participate in meetings until outstanding payments have been paid in full.

The failure to pay the approved appropriation may result in the withdrawal of the CLA services and benefits to the delinquent Town.

Mrs. Schaer reported that she had spoken to Brookfield First Selectman Dunn, Danbury Mayor Boughton and New Milford Mayor Gronbach and they had no problem with the By-Law change. *Bill Brown moved to approve the By-Law change as outlined above, seconded by Jerry Murphy.* Discussion. Mr. Hodge noted the CLA cannot enforce it, it has no teeth. Mr. Linkletter added that under Roberts Rules you cannot propose an illegal rule, discussion continued. A vote

was called and the motion was voted as follows: John Hodge, George Linkletter, Dan Rosemark and Chris Robinson opposed (4) Bill Brown, Bill Lohan, Jerry Murphy, Joe Wodarski, Mark Toussaint, Phyllis Schaer, Doug Cushnie and by proxy Bruce Kemble in favor (8) as 2/3's or ten votes are needed for a by-law change the motion failed and the By-Laws remain unchanged.

The second tabled item on Outside Employment of CLA Employees will remain on the table due to the late hour.

New Business: None

With no further business to come before the Candlewood Lake Authority, John Hodge moved *to adjourn the meeting. Seconded by Doug Cushnie, Meeting adjourned at 9:53 P. M.*

Respectfully submitted,

Jerry Murphy, Secretary
Frances Frattini, Administrative Coordinator

r/b/ljm

These minutes are not considered official until they have been approved at the next regularly scheduled meeting of the Candlewood Lake Authority.



United States
of America

Congressional Record

PROCEEDINGS AND DEBATES OF THE 115th CONGRESS, FIRST SESSION

House of Representatives

June 14, 2017

Remarks of the Honorable Elizabeth Esty,
Honoring Mr. Larry Marsicano

Mr. Speaker, I rise today to honor Mr. Larry Marsicano for his many years of tireless work to improve and protect Candlewood Lake. As Larry prepares to leave the Candlewood Lake Authority where he has served as Executive Director for fourteen years, I would like to take this opportunity to thank and recognize him. Larry has been a champion for conservation in western Connecticut, and his expertise and dedication have helped our community make significant progress to address pollution in Candlewood Lake.

As an undergraduate at Western Connecticut State University in the 1980s, Larry began collecting data on the water quality of Candlewood Lake, Connecticut's largest lake. After completing his Bachelor's degree, Larry worked as a laboratory manager, and then joined the Candlewood Lake Authority in 1998.

The Candlewood Lake Authority is an agency created by the five municipalities surrounding the lake to reduce pollution and improve its quality. Larry first worked as a Lake Preservation Director, supporting research and outreach, and in 2003, he became Executive Director. His work for the group has spanned environmental research, policy and advocacy, and education initiatives. Among his many accomplishments, Larry was instrumental in changing local land use regulations to protect surface water quality and in developing opportunities for high school students to learn about research on the lake.

Mr. Speaker, Mr. Larry Marsicano has been a devoted public servant in spearheading the efforts to protect Candlewood Lake and promote conservation awareness. I thank him for his decades of hard work to bring together government and private sector leaders to solve the issues facing the lake. While our efforts on behalf of the lake will continue, he will be greatly missed. It is fitting and proper that we honor Larry here today for his service and extend our best wishes as he begins the next stage of his career.


Elizabeth Esty
Member of Congress



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CLA Job Search and Transition Plan Overview

CLA BY LAWS: "ARTICLE IX - EMPLOYEES"

SECTION 1. *The Authority may employ such staff personnel and/or consultants as it sees fit to accomplish its work, within the limits of funds available, and in compliance with the Authority's Procurement, Reimbursement, Personnel Policies, and job descriptions, when applicable.*

SECTION 2. *The Chairman of the Authority may sign employment contracts and contracts for services as approved by the Authority in accordance with Section 1 of Article IX.*

SECTION 3. *The Authority may, by vote of the delegates, establish employment positions with duties as outlined in a job description for each position.*

In accordance with the By-Laws of the Candlewood Lake Authority the following procedures have been initiated to develop and provide an effective and impartial Job Search Plan to fill the position of Executive Director of the Candlewood Lake Authority:

The CLA HR Committee – has been convened – it is comprised of Delegates from our member municipalities to research and evaluate alternatives for the Position of Executive Director and the Management of Candlewood Lake. As part of this process a key goal is to clarify the CLA's current and future strategy.

To assure a comprehensive review and explore all options we will seek input from 4 areas:

1. A formal survey will be initiated for input from all CLA Board of Delegate members & CEO's
2. Meetings with Individual CEO's from each of the five member towns surrounding the Lake and comments on key areas of concern to review input.
3. CLA Staff will provide input based on operations knowledge and experience
4. Key Stakeholder & Agencies input

Report Summary – will be provided based on the review process and input received.

HR Job Posting: A Descriptive Job Posting will be drafted by the CLA HR Job Search Committee based on the above input from Delegates, CEO's and CLA Staff after review of the HR Committee.

HR Job Search: The Job Posting will be advertised nationally to attract the most suitable candidate from the widest and most suitably qualified candidate possible. Interviews will be scheduled with qualified applicants.

Progress Communications: CLA will keep Community informed on progress, status & projected schedule for transition. Insure that required current tasks are completed and community being served is assured organization is operating effectively and prepared to move forward.

Committee Members:

Phyllis Schaer – Chairman CLA – Sherman
Mark Toussiant- HR Committee Chair – New Milford
Bill Lohan – HR Committee - Brookfield
Doug Cushnie - HR Committee - Sherman
Dan Rosemark - HR Committee - Danbury
Bruce Kimble - HR Committee – New Fairfield



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Executive Director's Report Larry Marsicano May 5, 2017

The following report summarizes Executive Director activities from April 7, 2017 to May 5, 2017.

Freedom of Information Complaint

In my April report, Delegates were informed of the formal FOI complaint by John Hodge. Mr. Hodge's complaint was based upon (from his letter to FOIC)

- Delayed response to his December 8, 2016 request for information (all email correspondence between Executive Director and any elected official in the prior three years)
- The December 9, 2016 letter from Phyllis "chastising" him for filing an FOIA request
- Holding public meetings in a building not open to the public during meeting hours
- Preparing agendas which contain essentially the same general language month after month but do not give fair or reasonable notice to the public as to what is going to take place at the meetings

Since the April report the following has occurred:

- We received correspondence from the CT FOI Office that our hearing was scheduled for Tuesday, April 9th at 11am.
- On April 6th a letter was conveyed to Mr. Hodge that documents were available and that he should schedule with the office to review them. There were several email exchanges where a date, April 18th, and a time that was not within normal business hours, 1pm were agreed upon.
- On April 18th at 11:24am I received email from Mr. Hodge saying, "*Just as an FYI, in order to get through the documents as quickly as is possible I have asked George to meet me at 1 pm.*"
- On April 18th Mr. Hodge and Sherman Delegate George Linkletter arrived at 1:15pm and reviewed the over 1,400+ pages over the course of ~3 hours. Following their review, 52 pages were copied at Mr. Hodge's request.
- On April 26th, Ms. Schaer, Mark Howarth and I took an FOI class held at the Southington, CT Police Department given by Thomas Hennick of CT FOIA Office. Mr. Hennick is also handling the complaint against the CLA. We advised Mr. Hennick that Mr. Hodge had reviewed the requested emails. As is standard for these types of cases and as we learned during the class, Mr. Hennick was going to attempt mediation of the complaint.
- At the May 3rd Executive Committee meeting, Mr. Hodge was asked if he was going to drop the complaint now that he received the information he requested and we had taken steps to resolve

some of the other issues, e.g. more information on agendas, locked doors. Mr. Hodge responded that he was not and was planning to be at the hearing on May 9th.

New Fairfield Proposal for Use of Diquat and Copper Sulfate

Since my April 10th report the following has occurred. On April 11th the News-Times printed the article *Opposition causes New Fairfield to revise herbicide plan for Candlewood Lake* where a scaled back treatment was discussed. From the story - *The town now proposes to use Diquat on just 10 acres in Shelter Harbor Cove and scrap the use of copper sulfate, First Selectman Susan Chapman said.* See <http://www.newstimes.com/local/article/Opposition-causes-New-Fairfield-to-revise-11066135.php>

On April 14 the News-Times released *Shelter Harbor Cove residents OK herbicide plan*. This article discusses the conference call between residents of Shelter Harbor Cove, Solitude, and First Selectman Susan Chapman. In that article it says – *She (Ms. Chapman) held a conference call Monday with residents of the cove and with officials from Solitude Lake Management, the company hired to develop the proposal, and asked the 10 households to send in their votes. The final tally was eight yes votes, one abstention and one no.* See <http://www.newstimes.com/local/article/Shelter-Harbor-Cove-residents-OK-herbicide-plan-11074071.php>.

As of May 5th, we have not learned of an application being submitted. Many of the public opposed to the proposal have repeatedly asked the Selectmen's office who also replied that an application had not been submitted.

On May 3rd, New Fairfield Health Director and I toured Shelter Cove and were unable to see any milfoil. On May 4th I returned to the Cove with Scott Randall and a rack attached to an extendable pole to sample for weeds at the bottom of the Cove. In many instances, use of the rack only resulted in filamentous algae (see Photo #1 below). In other instances, very short (<6 inches) pieces of living Eurasian watermilfoil was retrieved (see Photo #2).



Triploid Grass Carp Supplemental Stocking and Tracking Study

Since my April 10th report all funding beyond CLA funds have been received and include: \$7,000 from CLUB*A, \$6,000 from the Goldring Family Foundation, and \$1,000 from Jeff and Karla Mortara. We had also learned that FirstLight approved our application to the HRP Fund for \$7,000 and Len Greene of FirstLight expedited payment which he hand delivered on April 28th.

I completed the 89 page 2015 & 2016 water quality report due to CT DEEP before a permit could be issued for 2017. The cover and body of the report are attached to the end of this report. A link to the complete report is available upon request.

As requested by members of the Watershed Committee we offered to the Town of New Fairfield the opportunity to piggy back on our order of 4,450 fish their order of 595 fish for Squantz Pond. I determined that I could save them approximately \$1,500. Several emails were exchanged between New Fairfield and me but I was never authorized to order fish for them and communications ended after providing the First Selectman estimates on savings.

A purchase order was sent to Keo Fish Farm pending issuance of a permit by CT DEEP on May 3rd. CT DEEP permit was received on May 5th. Logistical planning on actual stocking is forth coming.

We have started planning and attempting to schedule outings on the lake to continue tracking the radio-tagged carp.

FirstLight's Buffer Progress Report and Request for Extension to Provide Aerial Flyover/In-Use Boating Data

On March 29th we received FirstLight's consultation draft Vegetated Buffer Progress Report with a 30-day window to comment. This report required by FERC is to document progress by FirstLight on revegetating the shoreline. Our comments were submitted to FirstLight on April 28th and are attached to this report as are FirstLight's responses to our and CT DEEP's comments. For FirstLight's entire filing with FERC including their report, comments and responses to comments, see http://elibrary.FERC.gov/idmws/file_list.asp?accession_num=20170501-5223.

In my February 2nd Executive Director's report I noted that on January 31st FERC responded to FirstLight's decision not to provide 6 sets of flyover / in-use boating data per the Recreation Plan, instead providing only one. In the January 31st FERC issuance it read:

Within 90 days of this order, FirstLight Hydro Generating Co. must file individual aerial boat count figures (similar to Figure 5-1 provided in the licensee's report) for each of the six counts it performed during 2014 at Candlewood Lake (i.e., one figure for each day a count was performed). The licensee must provide legible copies of each figure to the Connecticut Department of Energy and Environmental Protection and Candlewood Lake Authority upon filing the figures with the Commission.

On April 28th FirstLight filed for a 30-day extension in providing that data. We will be providing a letter to FERC supporting that extension request.

Water Quality

Maintenance and calibration of field equipment was performed by CLA on May 4th at the HydroTechnologies Lab in New Milford. We are scheduled to start monitoring on May 12th and will bring Drs. Ed Wong and Ghada Salah from WCSU to observe our field methods.

We learned that the cyanobacteria/cyanotoxin monitoring grant application submitted by WCSU and CLA earlier in the year did not get funded by EPA. We did receive a number of valuable comments by reviewers which will improve the application the next time we submit it. We have been planning and purchasing supplies for the weekly cyanotoxin monitoring planned to start in the first week of July.

We will be going to EPA labs in MA to calibrate the field fluorimeter and fluorimeter on our water quality instruments equipment on May 17th.

The 1985 – 2012 Water Quality Trends paper resubmitted to the Journal of Lake and Reservoir Management. Included in our results and discussion was the finding that water quality following deep drawdowns from 1985 thru 2012 was statistically better than water quality following shallow drawdowns.

J. Marsicano & F. Cioffi Memorial Candlewood Lake Clean Up

We have been working on coordination, including lunch, of the J. Marsicano & F. Cioffi Memorial Candlewood Lake Clean Up which will be held on Saturday, May 20th.



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Interim Report to the

**Connecticut Department of Energy and Environmental
Protection**

**Water Quality at Candlewood Lake and Squantz Pond, 2015
and 2016**

Candlewood Lake Authority

**Laurence J. Marsicano
Executive Director**

April 17, 2017

Introduction

In May of 2015 the Connecticut Department of Energy and Environmental Protection (CTDEEP) issued a permit to the Candlewood Lake Authority (CLA) to import and release 3,368 12-14 inch and 500 14-16 inch triploid grass (*Ctenopharyngodon idella*) into Candlewood Lake. Conditions of the permit included monitoring and reporting on aquatic vegetation and water quality for five years following the introduction. This report provides water quality data and a preliminary assessment for the first two years following the release of the fish, i.e. 2015 and 2016.

Each year the Connecticut Agricultural Experiment Station (CAES) performs a mapping and analysis of aquatic vegetation in Candlewood Lake and Squantz Pond on behalf of FirstLight Power Resources in fulfillment of Article 409 in their 2004 license from the Federal Energy Regulatory Commission (FERC). Annual mapping as part of the FERC requirements by CAES was initiated in 2007 on Candlewood Lake and in 2015 on Squantz Pond. CAES's findings are reported annually to a Technical Committee as prescribed in the FERC license article. Both the CTDEEP and the CLA are members of that Committee and receive the annual reports. The reports are also available on the website of the CAES, specifically under their Invasive Aquatic Plant Program webpages. As per discussions between CTDEEP and CLA, the annual reports by the CAES will fulfill the annual aquatic vegetation monitoring condition of the permit.

Aquatic plants, including Eurasian watermilfoil (*Myriophyllum spicatum*) and its management at Candlewood Lake, has been studied and reported on prior to the efforts of CAES. CT DEP (1983) reported a rich and diverse community of aquatic plants based on surveys from 1978 to 1980. Siver et al. (1986) reported that since 1982, dense growths of Eurasian watermilfoil created extensive recreational and aesthetic problems in the lake and that by 1983, the density had greatly increased, essentially forming a monoculture in most areas of the lake. This research also examined the use of winter lake-level drawdowns to address the emerging lake management problem. Anecdotal, winter drawdowns were successfully used from 1984 until the late 1990s, and less successfully since then. Lonergan et al. (2014) examined the abiotic factors associated with winter drawdown and hypothesized as to why winter drawdowns had become less successful over time.

In response to escalating concerns about the Eurasian watermilfoil, the CLA examined and reported on other management options available to this community including chemical methods (e.g. herbicides) mechanical methods (e.g. harvesting) and biological methods (e.g. triploid grass carp) (CLA, 2013a). In October of 2013 the CLA approved moving forward with a triploid grass carp program to manage Eurasian watermilfoil in Candlewood Lake (CLA, 2013b).

Data on the water quality of Candlewood Lake has been collected since the early 1930s and includes that reported by Deevey (1940), CT DEEP (1983), Frink and Norvell (1984), and Canavan and Siver (1994, 1995). The CLA has maintained a water quality monitoring program

at Candlewood Lake and Squantz Pond which has been implemented annually since in 1983. Marsicano et al. (1995) reported on trends in water quality in Candlewood Lake since the 1930s using ten years of this data (1983 – 1992) and a paleolimnological investigation. Recently, a manuscript by Kohli et al. (in review) was submitted for publication and is under review by the editors of Lake and Reservoir Management. In this study, several different statistical approaches were utilized to assess trends in Candlewood Lake water quality with monitoring data collected from 1985 thru 2012 with emphasis on the trophic characteristics of the lake. Once published, a copy of the journal article will be provided to CTDEEP.

Methods

Since 1985, four sites on Candlewood Lake and one site on Squantz Pond have been visited once a month from May through October with almost no exceptions. This sampling protocol was continued in 2015 for both Candlewood Lake and Squantz Pond and in 2016 for Candlewood Lake. In 2016, however, Squantz Pond was only visited and sampled from May thru September. At the scheduled October 2016 date for the Squantz Pond visit, the level of the lake had been lowered uncommonly early and precluded the safe launching a vessel at the Squantz Pond State Boat Ramp.

During each site visit in 2015 and 2016 a number of field analyses were performed and water samples collected for laboratory analyses. Those water quality parameters required as a condition of the permit are listed in Table 1. Three sites on Candlewood Lake are located in the major arms, i.e., the Sherman Bay (SH), New Milford Bay (NM) and Danbury Bay (DB). A centrally located site in Candlewood Lake (NF) and the site in Squantz Pond (SQ) comprise the remaining two sampling sites (Fig. 1).

Data collected in the field include vertical profiles of temperature, dissolved oxygen and conductivity. The profiles were obtained by using a Eureka Manta Sensor outfitted with probes on the end of a coaxial cable to measure each parameter from the surface to the bottom at one-meter increments. Secchi disk transparency was measured by lowering a 22 cm diameter black and white disk into the water and measuring the exact distance where total visual contact was lost.

Water samples collected each month at one-meter depth with a Van Dorn horizontal sampler were analyzed in the lab for chlorophyll-*a* concentrations. Nutrient concentrations as required in the permit (Table 1) were also analyzed monthly in the lab from water samples collected during each site visit from the epilimnion, metalimnion and hypolimnion as determined from analysis of temperature profiles in the field. All laboratory analyses were performed by HydroTechnologies, Inc. in New Milford, CT.

Table 1. Water quality parameters collected per the CTDEEP permit at Candlewood Lake and Squantz Pond in 2015 and 2016.

Parameter	Note
Temperature / DO profiles	Assembled with data collected at each site at one meter intervals from the surface to the bottom
Secchi disk measurement	Measured with a standard limnological Secchi disk at each site
Algae Assessment (chlorophyll-a)	Measured from samples collected at 1 meter depth
Total Phosphorus (TP)	Measured from samples collected at the surface, mid depth and bottom
Total Kjeldahl Nitrogen	Measured from samples collected at the surface, mid depth and bottom
Ammonia	Measured from samples collected at the surface, mid depth and bottom
Total Nitrogen (TN)	Measured from samples collected at the surface, mid depth and bottom
Nitrate	Measured from samples collected at the surface, mid depth and bottom

Results and Discussion

Results of analyses of Secchi transparency, chlorophyll-a, and nutrient concentrations are provided in tabular form in Appendix 1. A summary of Secchi transparency, chlorophyll-a, and nutrient data is also provided in Table 2.

In 2015 and 2016, Candlewood Lake generally exhibited characteristics of a mesotrophic to late mesotrophic lake base on trophic classifications of CT DEP (1991). Mean Secchi transparency for 2015 and 2016 fell within the late mesotrophic range; mean chlorophyll-a concentrations fell within the mesotrophic range in both years; epilimnetic total phosphorus means were reflective of late mesotrophic conditions in 2015 and early mesotrophic conditions in 2016; and means of total nitrogen concentrations were within the late mesotrophic ranges in both years. In general, Candlewood Lake experienced slightly higher trophic conditions in 2015 as compared to 2016 (Table 2).

Trophic parameters measured at Squantz Pond in 2015 and 2016 were on average reflective of early mesotrophic to mesotrophic conditions. Mean Secchi transparency was within the mesotrophic range in 2015 and nearly within the mesotrophic range in 2016; mean chlorophyll-a concentrations in both years were within early mesotrophic range; mean epilimnetic total phosphorus concentrations were characteristic of mesotrophic conditions in both years; and mean total nitrogen levels were within early mesotrophic levels in both years.

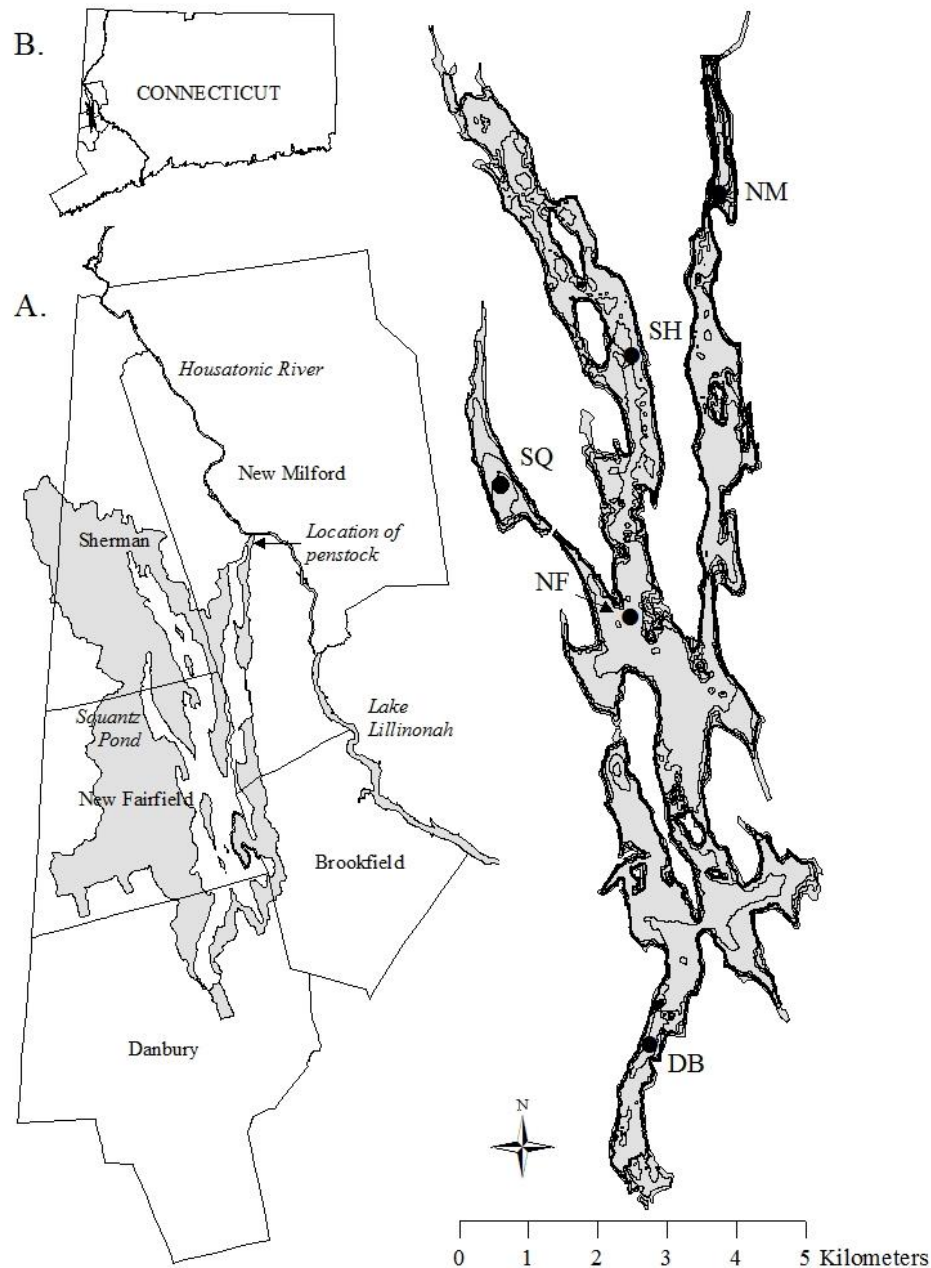


Figure 1. Location of sampling sites on Candlewood Lake and Squantz Pond. Inset A shows the location of the watershed and municipalities in relation to the lakes. Inset B shows the location of the lake and municipalities within the State of Connecticut.

As noted earlier, a paper on water quality trends at Candlewood Lake from 1985 through 2012 is under review (Kohli, in review). In general, significant shifts in trophic conditions over the 28 year period were not detected in this study regardless of the variety of statistical methods used. In fact, there were some indications that trophic levels slightly improved over time. In

Table 3 we provide a comparison of means and standard deviations for Secchi transparency, chlorophyll-a concentrations at 1 meter and total phosphorus concentrations from 1 meter, the metalimnion, and one meter above the bottom in the hypolimnion from 1985 to 2014, 2015 and 2016. This comparison suggests that conditions have remained relatively constant from 1985 thru 2016.

Temperature and dissolved oxygen profiles for Candlewood and Squantz Pond collected in 2015 and 2016 are provided in Appendix 2. In addition, we have provided the thermal resistance to mixing values between each meter within the water column and for the total water column. Candlewood Lake and Squantz Pond generally follow patterns of stratification typical for deeper, dimictic New England lakes. In late May of 2015 both lakes were already stratified with declining oxygen levels observed below the thermocline. In late May of 2016 stratification had not yet fully developed and the oxygen gradients were less pronounced. By June and through September, both lakes were clearly stratified and oxygen levels greatly reduced below the thermocline with anoxic conditions observed in many instances at deeper depths. October profiles in both years at both lakes indicated that fall turnover had occurred with oxygen and temperature levels uniform through the water column with the exception of the New Milford site which is nearly twice the depth of the other three sites on Candlewood and one site on Squantz Pond.

We have initiated and continue to work on a thorough examination of historical changes in profiles, particularly as related to resistance to mixing in the water column at Candlewood Lake and Squantz Pond using our 30 year dataset. Preliminary results suggest that stratification is occurring earlier, i.e. in May rather than June, and that the intensity of the resistance to mixing has increased in recent years (see Figure 2). There is a growing body of literature that implicates these types of changes in stratification as a possible catalyst of more frequent and intense cyanobacteria blooms (Paerl and Huisman 2008, 2009).

Table 2. Summary table for water quality variables collected monthly in 2015 and 2016 from May thru October at four sites at Candlewood Lake (n=24), collected monthly from May thru October in 2015 from one site on Squantz Pond (n=6), and monthly from May thru September in 2016 at the same location Squantz Pond location (n=5). See Appendix 2 for detail. CWL = Candlewood Lake; SQ = Squantz Pond; TN = Total Nitrogen; TP = Total Phosphorus; Epi = epilimnion; Meta = metalimnion; Hypo = hypolimnion.

		CWL 2015	CWL 2016	SQ 2015	SQ 2016
Secchi Transparency (meters)	mean	2.30	2.47	3.10	2.97
	min	1.61	1.66	2.16	2.30
	max	3.56	3.60	4.15	4.21
Chlorophyll a (µg / L)	mean	9.2	6.9	4.5	3.4
	min	2.6	2.0	3.0	1.8
	max	19.2	14.6	6.6	4.8
Epi Total Phosphorus (µg / L)	mean	28	15	23	17
	min	3	3	13	0
	max	70	40	37	34
Epi Total Nitrogen (µg / L)	mean	505	512	295	295
	min	230	100	220	140
	max	1010	2040	360	490
Epi TN/TP**	mean	27	52	15	23
	min	4	7	9	6
	max	93	173	22	47
Meta Total Phosphorus (µg / L)	mean	27	18	26	17
	min	7	2	20	4
	max	60	47	40	30
Meta Total Nitrogen (µg / L)	mean	518	686	330	328
	min	290	150	250	200
	max	1170	2270	390	480
Meta TN/TP**	mean	25	110	13	30
	min	7	4	10	7
	max	59	420	15	55
Hypo Total Phosphorus (µg / L)	mean	34	46	22	26
	min	10	3	13	7
	max	70	185	33	44
Hypo Total Nitrogen (µg / L)	mean	878	997	818	582
	min	230	60	280	150
	max	1570	2780	1910	1060

Table 2. Continued. Note that results for nitrate and ammonia were often reported at less than detectable limits (e.g. <50 or simply ND). In these cases means were not calculated and minimums were reported as either <50 or ND. See Appendix 2 for detail.

		CWL 2015	CWL 2016	SQ 2015	SQ 2016
Hypo TN/TP	mean	27	35	48	35
	min	10	5	8	5
	max	52	130	147	130
Epi TKN (µg / L)	mean	404	501	277	278
	min	230	100	110	140
	max	710	2040	360	420
Epi Nitrate (µg / L)	mean	--	--	--	--
	min	<50/ND	<50	<50	<50
	max	370	100	110	70
Epi Ammonia (µg / L)	mean	--	--	--	--
	min	ND	ND	ND	ND
	max	140	220	ND	ND
Meta TKN (µg / L)	mean	388	675	330	--
	min	220	150	250	ND
	max	760	2270	390	420
Meta Nitrate (µg / L)	mean	--	--	--	--
	min	<50	<50	<50	<50
	max	<50	80	<50	60
Meta Ammonia (µg / L)	mean	--	--	--	--
	min	<50	<50	ND	ND
	max	220	130	130	ND
Hypo TKN (µg / L)	mean	695	979	792	496
	min	280	140	250	150
	max	1570	2780	1890	750
Hypo Nitrate (µg / L)	mean	--	--	--	--
	min	<50	<50	ND	<50
	max	1400	420	70	120
Hypo Ammonia (µg / L)	mean	--	--	414	184
	min	ND	ND	130	130
	max	1060	1590	1050	270

Table 3. Comparison of trophic parameters in Candlewood Lake from 1985 thru 2014, 2015, and 2016.

Parameter	Statistic	1985 – 2014	2015	2016
Secchi	Mean	2.61	2.30	2.47
	Standard Deviation	0.65	0.53	0.50
Chlorophyll-a	Mean	7.0	9.2	6.9
	Standard Deviation	4.3	5.1	3.4
Epi Total Phos	Mean	22.6	28	15
	Standard Deviation	14.6	16	10
Meta Total Phos	Mean	22.8	27	18
	Standard Deviation	11.6	13	14
Hypo Total Phos	Mean	40.3	34	46
	Standard Deviation	38.7	14	47

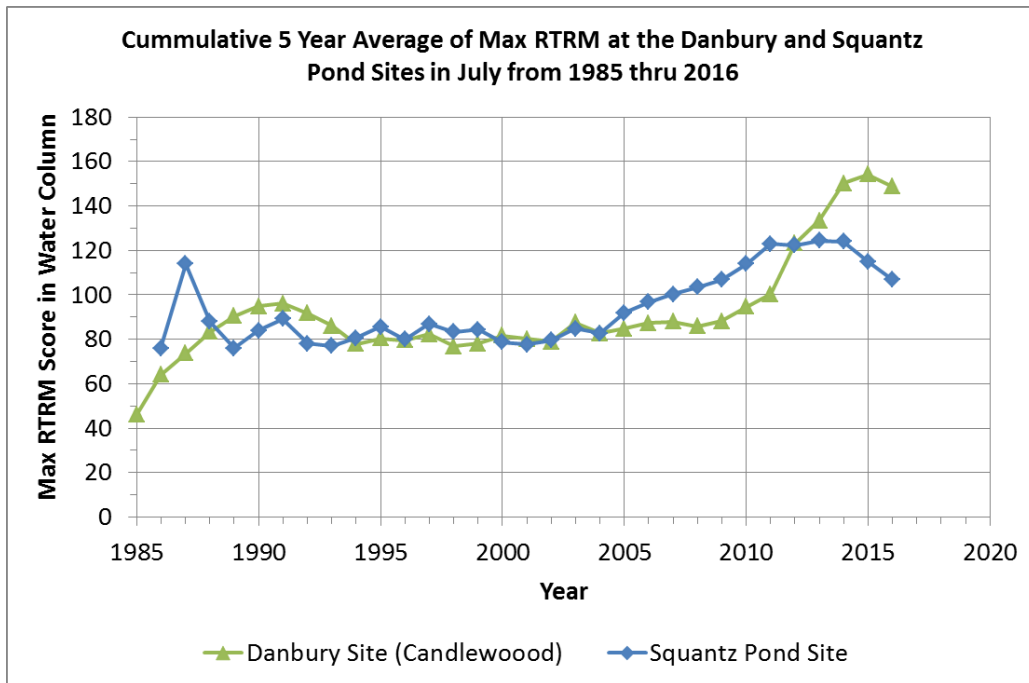


Figure 2. Five year running average maximum relative thermal resistance to mixing (RTRM) values in the water column at the Danbury site and Squantz Pond site from 1985 through 2016. Note that the maximum five year average is approximately 80 to 100 until 2008 in Squantz Pond and until about 2012 in Candlewood Lake.

References

- Canavan RW, Siver PA. 1994. Chemical and physical properties of Connecticut lakes, with emphasis on regional geology. LAKE RESERV MANAGE. 10(2):175-188.
- Canavan RW, Siver PA. 1995. Connecticut Lakes: A study of the chemical and physical properties of fifty-six Connecticut Lakes. New London (CT): Connecticut College Arboretum.
- [CLA] Candlewood Lake Authority. 2013a. Options for Eurasian Watermilfoil Management in Candlewood Lake. Candlewood Lake Authority, Sherman CT. 7 pp.
- [CLA] Candlewood Lake Authority. 2013b. Minutes of the Regular Meeting, October 9, 2013. Candlewood Lake Authority, Sherman CT. 8 pp.
- [CT DEP] Connecticut Department of Environmental Protection (Water Compliance Unit). 1983. Diagnostic / feasibility study: Candlewood Lake, Brookfield, Danbury, New Fairfield, New Milford, Sherman, Connecticut Phase 1. Hartford (CT): Environmental Protection Agency Clean Lakes Clearinghouse.
- [CT DEP] Connecticut Department of Environmental Protection. 1991. The trophic classifications of forty-nine Connecticut lakes. State of Connecticut Department of Environmental Protection, Bureau of Water Management. Hartford (CT).
- Deevey ES Jr. 1940. Limnological studies in Connecticut. V. A contribution to regional limnology. AM J SCI. 238(10):717-741.
- Frink CR, Norvell WA. 1984. Chemical and physical properties of Connecticut lakes. New Haven (CT): Connecticut Agricultural Experiment Station. Bulletin 817. 180 pp.
- Kohli P, Siver PA, Marsicano LJ, Hamer JS and Coffin AM. In review. Assessment of Long-term Trends for Management of Candlewood Lake, Connecticut, USA. LAKE RESERV MANAGE.
- Lonergan T, Marsicano L, Wagener M. 2014. A laboratory examination of the effectiveness of a winter seasonal lake drawdown to control invasive Eurasian watermilfoil (*Myriophyllum spicatum*). LAKE RESERV MANAGE. 30(4):381-392.
- Paerl H.W. and Huisman J. 2008. Blooms like it hot. Science 320:57-58
- Paerl H.W. and Huisman J. 2008. Climate change: a catalyst for global expansion of harmful cyanobacteria blooms. Environmental Microbiology Reports. 1:27-37
- Siver PA, Coleman A, Benson G, Simpson J. 1986. The effect of winter drawdown on macrophyte densities in Candlewood Lake, Connecticut. LAKE RESERV MANAGE. 2(1):69-73.



CANDLEWOOD LAKE AUTHORITY

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PO BOX 37 • SHERMAN, CT 06784 • P (860) 354-6928 • F (860) 350-5611

April 28, 2017

Mr. Stuart Piermarini
Plant Manager, FirstLight Power Resources
143 West Street, Suite E
P.O. Box 5002
New Milford, CT 06776

Dear Mr. Piermarini:

We received the draft 2016 Vegetated Buffer Progress Report on March 29, 2017 and would respectfully request consideration of our comments below.

In FirstLight Power's 2015 Vegetated Buffer Progress Report there was discussion of the work and support for the Candlewood Lake Vegetated Buffer Acceleration Agreement. FirstLight committed to accepting and implementing the agreement as part of its future education and other programs once a majority of stakeholders agree to the terms and submit executed copies to FirstLight. Since that time, the majority of stakeholders have agreed to the terms and submitted executed copies to FirstLight.

In FERC's September 7, 2016 letter, they noted the agreement and stated:

*Further, your 2015 buffer report includes a copy of the Candlewood Lake Vegetated Buffer Acceleration Agreement, which you state has received support from the CTDEEP and Candlewood Lake Authority. We are pleased to see cooperation among FirstLight, CTDEEP, and the Candlewood Authority on this matter, as we have previously encouraged you to work with all stakeholders and adjacent landowners to expedite the installation of shoreline buffers along the lake wherever possible without causing undue financial burdens to property owners.*¹

The 2016 Vegetated Buffer Progress Report makes no mention of the agreement. Can you please provide an update and status of this initiative including a revised implementation plan.

¹ See FERC letter Re: LAC/RAC meeting minutes report, pump-out report, vegetated buffer report, and seawall report for 2015 (FERC Issuance No. 20160907-3007, September 7, 2016) at P 5

We do appreciate FirstLight's progress in identifying properties that have been sold over the past five years, e.g. properties in the Town of New Fairfield that sold in 2014 and afterwards are now listed in Attachment C whereas no New Fairfield properties were listed in the equivalent attachment in the 2015 report. We do note that there are still no New Fairfield properties that sold in 2013 in Attachment C of the 2016 Report. Please advise us on your future plans to include those missing transfers.

We continue to believe that map/lot numbers or addresses of transferred properties should be included in the Vegetated Buffer Reports including in Attachments B and C. We believe this information should be included so that FERC, the CLA, CT DEEP and other stakeholders can benefit from the additional information by being able to visually confirm that appropriate measures are taking place in the interest of the lake. Stakeholder confirmation is important as we all look to implement measures available to us, like vegetative buffers, which will aid in mitigating water quality degradation.

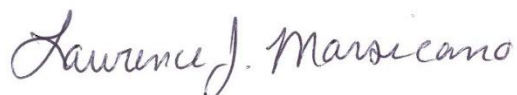
Without addresses or map/lot numbers, stakeholders cannot know the locations or observe implementation of such measures. Conversely, the GIS data we've requested in the past, including parcel and HRP ID data in an attribute table, would resolve this issue in that the HRP ID numbers that are provided in the report would be sufficient in locating areas where buffers are deemed compliant, required, or completed.

We hope you can understand our rationale for wanting to know the locations and respectfully request that this information be provided. If FirstLight elects not to provide it, please provide your rationale for your decision.

We look forward to your responses to our comments.

Sincerely

CANDLEWOOD LAKE AUTHORITY

A handwritten signature in dark ink, reading "Laurence J. Marsicano". The signature is written in a cursive, flowing style.

Laurence J. Marsicano
Executive Director

ATTACHMENT D – Stakeholder Consultation Record

From: Brian Wood
Sent: Wednesday, March 29, 2017 4:59 PM
To: 'Hannon, Robert'; 'claexecdir@earthlink.net'; 'glfillion@cs.com'; 'chairman@lla-ct.org'
Cc: Brian Wood
Subject: FirstLight Vegetated Buffer Progress Report for 30 Consultation

Hello All,

As required under our Shoreline Management Plan, FirstLight is hereby providing the draft “2016 Vegetated Buffer Progress Report” for a 30 day consultation with Stakeholders.

Please provide your comments back, if any, via email in writing on/or before 4/29/2017.

Thanks, we finally have some nice weather!

BDW

Brian D. Wood
Manager, Land and Recreation



Tel. 860.350-.3294
brian.wood@firstlightpower.com
lake.permits@firstlightpower.com

143 West Street Extension, Suite E
P.O. Box 5002
New Milford, CT 06776

Please consider the environment before printing this document.

Vegetated Buffer Report Consultation Record	
Stakeholder Comment	FirstLight Response
CTDEEP -1 Via Phone: The CTDEEP voiced their concerns over the long term traceability overtime based upon the current and past reports and whether or not an individual property is or is not compliant.	FirstLight has committed to providing an updated report as part of the stakeholder 6 year review and update of the SMP required in 2019, that will aid in resolving this concern. FirstLight regularly attends site visits as part of issuing several types of permits and as shown above in Attachment B, with regards to this report for 2016, 51 permits were issued, 68% had either installed or continue to maintain greater than a 50% Buffer, 18% of the properties visited have already submitted planting plans, therefore 86% of the 2016 properties in this report are already or well on their way to compliance. The remaining 14% now understand the deadline and requirements of the program.
CTDEEP -2 Via Phone: The CTDEEP asked if there was a way to reference the provided HRP # versus a database to access the owners or street address.	FirstLight explained that the data maintained to generate and manage its lands is a through a vendor, via an annual license agreement and that the data is not publicly available for dissemination.
CLA -1 “The 2016 Vegetated Buffer Progress Report makes no mention of the agreement. Can you please provide an update and status of this initiative including	FirstLight prepared the Report for consultation based upon the requirements of the License, this initiative is not a license requirement however, update on FirstLight’s

a revised implementation plan.”	implementation plan is provided in the cover letter to this filing.
CLA -2 “We do note that there are still no New Fairfield properties that sold in 2013 in Attachment C of the 2016 Report. Please advise us on your future plans to include those missing transfers.”	FirstLight will review your findings in consultation with our vendors for the 2013 New Fairfield data, as stated in this report above this list will be updated annually from the time of the FERC Order approving the SMP annually going forward.
CLA -3 “Without addresses or map/lot numbers, stakeholders cannot know the locations or observe implementation of such measures. Conversely, the GIS data we’ve requested in the past, including parcel and HRP ID data in an attribute table, would resolve this issue in that the HRP ID numbers that are provided in the report would be sufficient in locating areas where buffers are deemed compliant, required, or completed. We hope you can understand our rationale for wanting to know the locations and respectfully request that this information be provided. If FirstLight elects not to provide it, please provide your rationale for your decision.”	FirstLight has already provided the CLA its data policy, which is not to release to public agencies, individuals’ person data, permit data, or digital mapping that is either company or other vendor’s proprietary data. FirstLight’s privacy concerns are obvious. In addition, several of the data sets are proprietary to the vendors who created and collected the data, and FirstLight has licenses for the software from the vendors to view and use the vendor-owned data. FirstLight’s contractual agreements with its vendors require this data to remain confidential. Thus, the private data you are requesting is not available.
LLA – 1 Via Phone: The Chairman of the Lake Lillinonah Authority confirmed that they had no comments and they regularly refer all requests from the public and realtors to FirstLight with regards to Vegetated Buffers.	FirstLight discussed other issues related to its management plans with LLA for the 2017 Summer.
LZA -1 Via Phone: The Chairman of the Lake Zoar Authority confirmed that they had no comments, FirstLight is doing a good job with their neighbors and they refer folks to FirstLight with regards to Vegetated Buffers.	FirstLight discussed other issues related to its management plans with LZA for the 2017 Summer.



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Executive Director's Report Larry Marsicano June 7, 2017

The following report summarizes Executive Director activities from May 5, 2017 to June 7, 2017.

Freedom of Information Complaint

In my May report, I updated Delegates on the FOI Complaint against the CLA by New Fairfield Delegate John Hodge. Since that time our FOI Hearing occurred on Tuesday, May 9th in Hartford. Phyllis Schaer and I attended, as did the complainant, John Hodge and his witness, Sherman CLA Delegate George Linkletter. The Hearing Officer heard from John, Phyllis and me; she is putting together a report; and the Commission will make a ruling on it at a later date.

Proposal for Use of Diquat, Weeds this Year, & 2017 Drawdown

On May Friday, May 26th, we sampled the bottom of Shelter Harbour Cove for milfoil growth and were still unable to find measurable milfoil. See photos below.



It is likely that the shallow drawdown performed in November of 2016 and lasting into February was in large part the reason for lack of weeds in many of the coves including Shelter Harbour (New

Fairfield) and Allen's Coves (Sherman). FirstLight reached the "shallow" drawdown depth (~6 ft.) by December 1, 2016 allowing exposed lake bottom to dewater and dry before subfreezing temperatures arrived. This prevented the formation of ice in the coves that insulates the roots in the exposed areas in advance of the cold snap of early January. In effect, last year's drawdown resembled the far more effective drawdowns of the early 1980s thru late 1990s which we have been advocating for and published on several years ago, but FirstLight no longer regularly does due to market reasons.

The political action group, Candlewood Voices, petitioned the New Fairfield Selectmen for a Special Town Meeting which was held on May 30th. There a proposed ordinance was voted on and approved. Town approval will now be required to apply herbicides to Candlewood Lake. From the News-Times (<http://www.newstimes.com/local/article/new-fairfield-11183832.php>)

After the vote, First Selectman Susan Chapman said the town will no longer seek a permit with the state Department of Energy and Environmental Protection to use the herbicides.

"Well, this is democracy and this is how it works in a town hall form of government," she said. "Obviously, we won't be moving forward with the permit."

Article for CT Chapter of Sierra Club

Last month I was asked if I could write an article for The *Quinnehtukqut*, the newsletter for the Connecticut Chapter of the Sierra Club. I was specifically asked to write about milfoil management efforts at Candlewood Lake. The article that appeared in the June 2017 edition of the newsletter is attached to this report. Your comments have been requested from the newsletter editor.

Triploid Grass Carp (TGC) Supplemental Stocking and Tracking Study

In my last report I discussed correspondence between CLA and New Fairfield Selectmen's Office and our long-standing offer to include the 585 carp for Squantz Pond with our order of 4,450 carp for Candlewood but that no confirmation was received from the Town. Shortly afterwards we were contacted by the NF Health Director Tim Simpkins who conveyed that the Town would like us to include the order with ours and to plan for the stocking in Squantz Pond on the same day we stock Candlewood Lake. We made the arrangements, including placing the order, billing the Town of New Fairfield for additional expenses, and working with Rowledge Pond Aquaculture Center (RPAC) and CT DEEP for stocking purposes.

On June 8th 5,035 total triploid grass carp arrived from Keo Fish Farm in Arkansas and were stocked into Candlewood Lake and Squantz Pond. In addition to Todd Bobowick from RPAC, we received important help and expertise from Mr. George Buck of Friends of Ball Pond and Ben Toussaint and we thank them for their expertise and assistance.

Tracking of TGC with the radio-transmitters began for the second season on May 24th and has occurred on May 30th, June 8th and 9th and trips are also scheduled throughout the remainder of June. Radio-transmitter tagged fish released in June of 2016 are still being located and mapped. This study will end this summer and a report and possible peer-reviewed published paper should be available at a later date. Luke Mueller who is studying at the University of New Hampshire and

Emily Van Vlack studying at Boston University, both of New Fairfield and Project CLEAR alumns, are working with Dr. Dora Pinou and keeping blogs on their efforts.

Luke's blog, *Carp Meets Lake* is at <https://lukcmueller.wixsite.com/carpmeetslake> and Emily's blog, *Candlewood Carp*, is at <https://emilyvanvlack.wixsite.com/candlewood-carp>

FirstLight's Buffer Progress Report and Request for Extension to Provide Aerial Flyover/In-Use Boating Data

Since my May report, we learned that FERC is not going to require FirstLight to provide additional GIS data, other than what it proposed to provide, for reasons FirstLight provided in their submittal to FERC. One of our reasons for requesting additional data was to understand where compliant, noncompliant and required buffers are going to be located as part of the Vegetated Buffer Progress requirement in the Shoreline Management Plan. As reported last month, FirstLight has never provided location information that was usable by our agency, and only includes an internal location number in their reports to FERC, even though we annually request this information in our comments on the draft Vegetation Buffer Progress Reports. We are still waiting to hear from FERC on this year's submittal which was discussed and portions provided in the May 2017 Executive Director Report. We have been working to develop our own database and map of location of properties that have transferred since 2013 (see *Internships...* below).

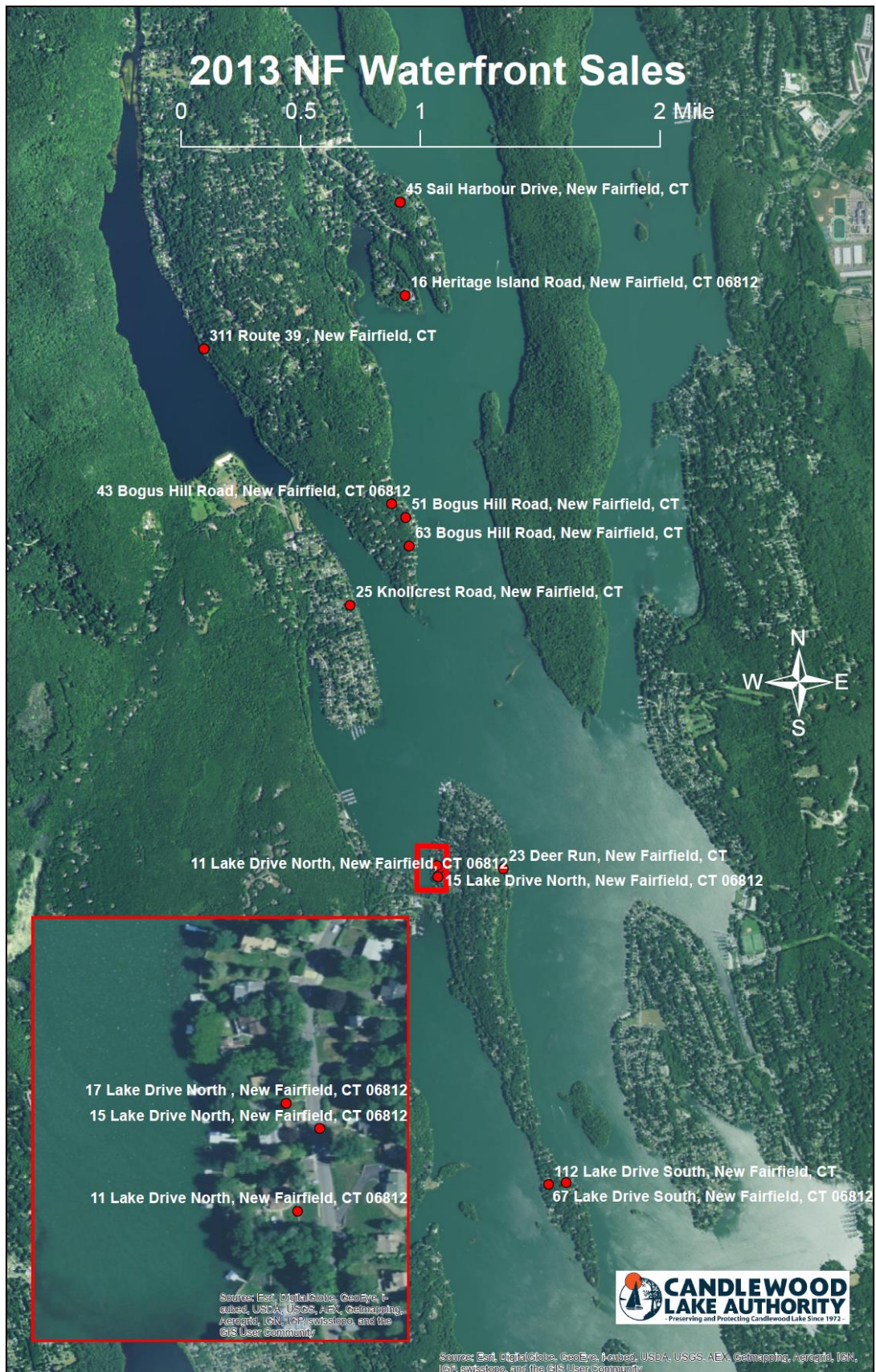
At FirstLight's request, we provided a letter of support for their request of FERC for a 30-day extension to provide the remaining 2014 in-use boating data. Recall we only received one of the six sets of data as described in the FERC-approved Recreation Plan. We received the data in GIS compatible format from FirstLight on June 6th and will be performing density analyses later this month.

Internships by Local High School Students

Above I mentioned that there has been work on developing data on locations of buffers. This work has been largely through the efforts of Ridgefield High School senior, Corrine Lamanna, who also lives in Candlewood Knolls. She is developing a database using the Multiple Listing Service, records from Town Clerk's and Town Assessors' Offices and FirstLight's Vegetative Buffer Progress Reports to identify shoreline areas that either should have a FirstLight compliant buffer or will have a compliant buffer within five years of transfer. Also collaborating on this project is Scott Randall of Sherman. The first map (see below) shows the location of shoreline transfers in New Fairfield in 2013 which should already or will have compliant buffers by 2018.

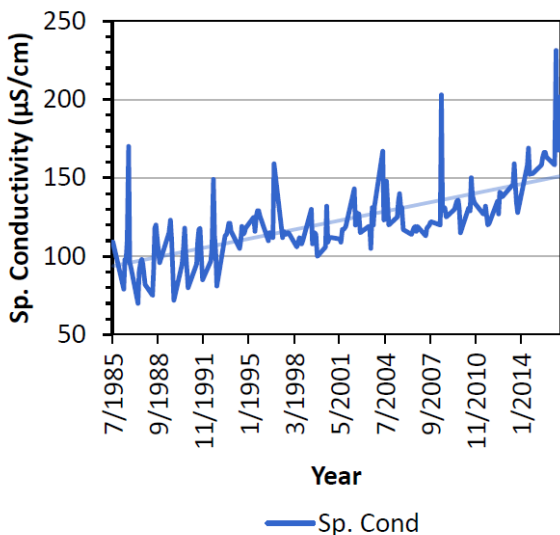
Corrine also coordinated the 2017 volunteer zebra mussel artificial substrate monitoring program. There are currently 16 substrates deployed to monitor for presence of juvenile and adult zebra mussels. Lastly Corrine helped at the luncheon at the Clean-Up on Saturday, May 20th.

I also worked with Josh Sproule and Jake Cleary who are graduating seniors from New Fairfield High School who have been compiling the Squantz Pond water quality database for the last several months. In addition to preliminary analyses of water quality trends (see below) Josh and Jake also assisted in the water quality sampling event at Squantz Pond on May 24th and worked on the Buffer Garden with Landscape Professional Robin Zitter on the day of the Clean-Up, Saturday, May 20th.

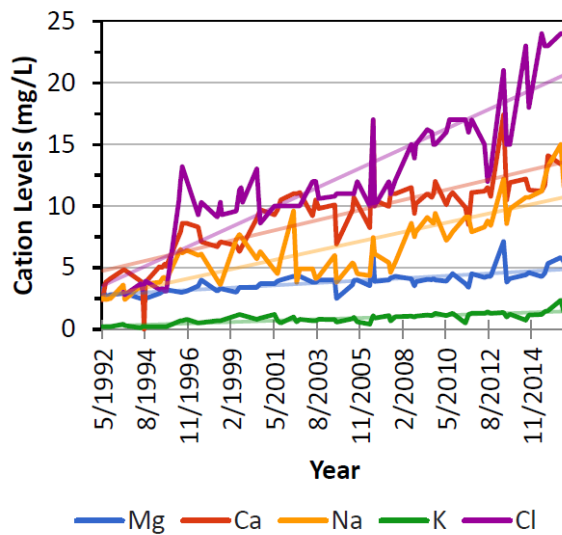


Preliminary Assessment of Water Quality Trends at Squantz Pond

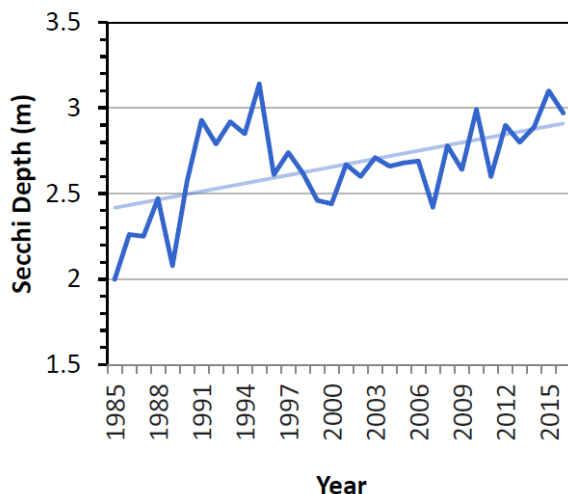
Sp. Conductivity 1985-2016



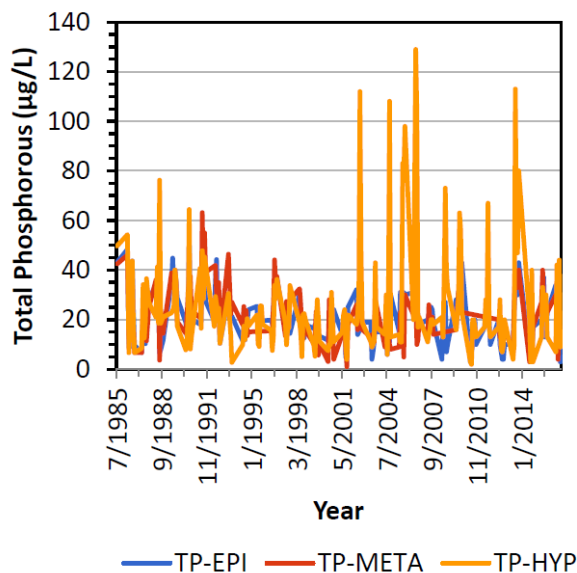
Selected Ion Levels 1992-2016



Secchi Transparency Seasonal Means 1985-2016



Epi, Meta, Hypo Total Phosphorus Levels 1985-2016

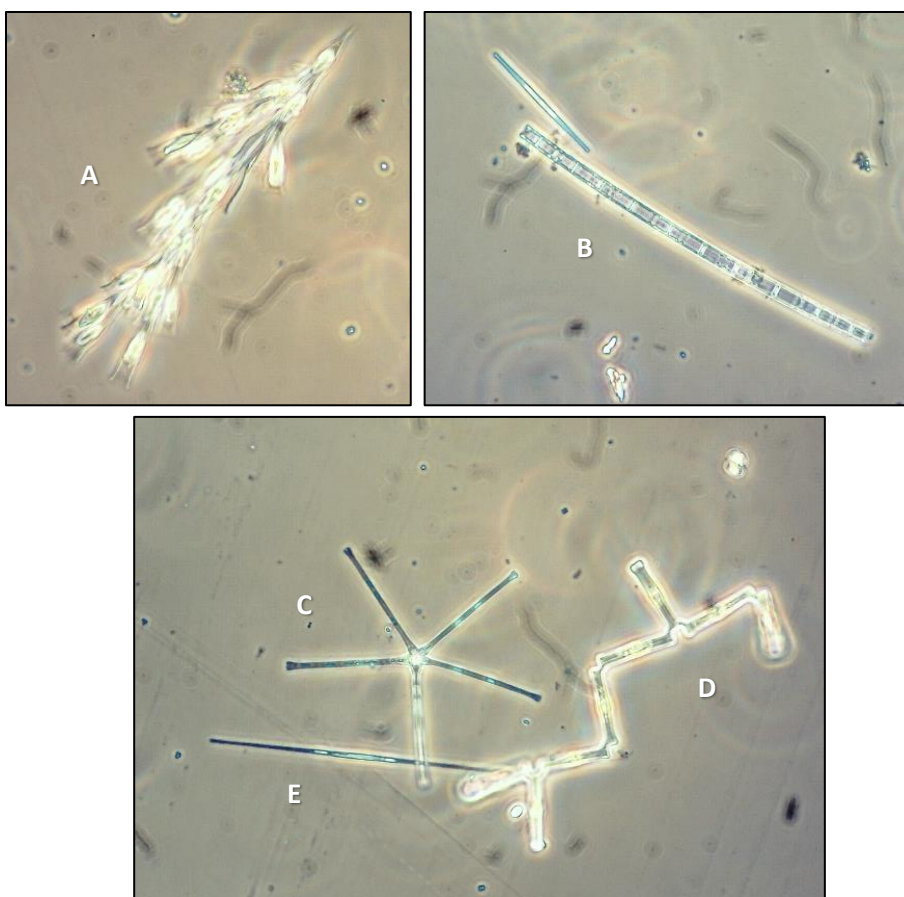


Preliminary assessment of water quality trends in Squantz Pond. Top two panels show increasing total ion concentrations from 1985 to 2016 and increasing trends for a number of specific ions from 1992 to 2016. Bottom two panels show improving Secchi transparency and relatively stable phosphorus levels since 1985 with the exception of hypolimnetic levels after 2000. The hypolimnetic trend corresponds with timing of changes observed in resistance to mix values discussed in the January 2017 Executive Director's report.

Water Quality

Monthly monitoring at Candlewood Lake occurred on May 12th and on the 24th at Squantz Pond. Secchi transparency was on the low side (1.2 to 1.6 m) but nutrient levels were not abnormally high and the phytoplankton population was largely comprised of diatoms and golden algae (see below) but not many cyanobacteria (blue-green algae). The low transparency might have been the result of inorganic materials washed in following rains which followed periods of drought.

On May 16th I traveled with Dr. Edwin Wong and Dr. Ghada Salah from WCSU to the EPA Region 1 Labs in North Chelmsford, MA for a workshop on calibrating the fluorimeter we purchase with WCSU to measure phycocyanin, which is the photosynthetic pigment found in cyanobacteria, and chlorophyll-a, the photosynthetic pigment found in all algae. We will start collecting samples for analyses of these pigments using this new instrument starting in June.



Micrographs of algae collected from Candlewood Lake on May 12, 2017 at the Danbury Site. A) *Dinobryon* sp., a genus from the Golden Algae; B) *Aulocoseria* sp., a genus from the filamentous diatoms; C) *Asterionella formosa*, a colonial diatom; D) *Tabellaria fenestrata*, another colonial diatom; and E) *Synedra* sp., a single-celled diatom.

Photo credit:
Larry Marsicano

Comments on 39 Wanzer Hill Road, Sherman

I was asked to comment on the proposal before Sherman Planning and Zoning for a home with stable and paddocks for horses. Wanzer Hill Road is the road that comes off Route 39 and leads to the Sail Harbour Community. The site is at the top of a hill and about 2,000 to 3,000 feet from Squantz Pond to the west and Candlewood to the east. It is unclear which way the drainage flows. Comments were prepared and sent to P&Z on June 1st and read into the record that night.

Changes at Dikes Point

We received a press release from FirstLight and shared it on the online registration program for Dikes Point Recreation Area. In order to control visitor and parking numbers at the park, visitors must register online. We had recommended this to FirstLight at Lake Advisory Committee Meetings, most recently in our comments submitted as part of the FirstLight's 2015 LAC Report to FERC. We had made the same recommendation prior to that as well.

CO₂ Study

This past month I had several discussions with stakeholders in the proposed CO₂ feasibility study including several with CT DEEP Natural Resource Bureau Chief Bill Hyatt. On May 17th I participated in a conference call with Mr. Hyatt, Tom Luebke who is Director of Reclamation's Technical Service Center, and Carter Brown who is General Attorney at the Office of the Solicitor (Department of Interior) to discuss the proposed project and draft contract between CT DEEP and the Bureau of Reclamation. Several days later I spoke with Dr. Kevin Kelly, lead scientist for the proposed study. We will continue to pursue making this potentially ground breaking study come to fruition.

Sherman Memorial Day Parade

My daughter Angelina and I were proud to be part of Sherman's 50 Annual Memorial Day Parade on Sunday, May 28th. We rode in the new CLA Patrol Boat along with (from left to right) CLAMP Captain Ron Barnard, CLA Chairman Phyllis Schaer, CLAMP Lieutenant Nick Mellas, and Philip Ostrosky who is the son of Sherman Selectman Bob Ostrosky. Not pictured were Mark Howarth who took pictures and Nick Marsicano who towed the boat in the parade.



J. Marsicano & F. Cioffi Memorial Candlewood Lake Clean Up

On May 20th the CLA held its 17th Annual Lake Clean-up in the last 19 years, now named in the memory of John Marsicano and Frank Cioffi who co-founded the event with me back in the late 1990s. The event was another success with another 30-yarder overflowing with debris taken from the lake. For 17 years I have been fortunate to have the support of the restaurant and food services industry and other local business that have made this event the right of passage / start of the recreation season for many years. We are also grateful to the Town of New Fairfield who has allowed over the years the event to center at their Town Beach, including the luncheon, and in recent years providing staff and equipment offload the debris from boats. On behalf of the Marsicano and Cioffi Families, I wish to thank all who have made these so successful over the years.

Notice from Journal of Lake and Reservoir Management of Acceptance of Paper for Publication

On May 8th I received email from my colleague Dr. Priya Kohli of Connecticut College who forwarded the following email from Dr. Al Sosiak, Editor in Chief, Journal of Lake and Reservoir Management. Dr. Sosiak's email read:

Dear Dr Kohli:

Ref: Assessment of Long-term Trends for Management of Candlewood Lake, Connecticut, USA

Our referees have considered your paper and have recommended publication in Lake and Reservoir Management (LRM). We are pleased to accept your paper, which will be forwarded to the publisher for copy editing and typesetting once any final adjustments are made...

... Thank you for your contribution to Lake and Reservoir Management. We look forward to receiving further submissions from you.

Sincerely,

Al Sosiak

Editor in Chief, Lake and Reservoir Management

Our press release was sent to the local media outlets and the News-Times and other covered it. See www.newstimes.com/local/article/New-research-says-that-despite-invasives-11142856.php.

The title, authors, affiliations, abstract and key words are provided below.

Assessment of Long-term Trends for Management of Candlewood Lake, Connecticut, USA

P. Kohli^{a,*}, P. A. Siver^a, L. J. Marsicano^b, J. S. Hamer^c and A. M. Coffin^a

^a Connecticut College, 270 Mohegan Avenue, New London, CT 06320

^b Candlewood Lake Authority, 20 Sawmill Rd, PO Box 37, Sherman, CT 06784

^c Western Connecticut State University, 181 White St, Danbury, CT 06810

Candlewood Lake, the largest lake in Connecticut, is a pumped-storage reservoir formed in the 1920's for hydropower generation. Since its inception, the lake has experienced shifts in water quality coupled with watershed development, and in the 1980's the introduction and spread of the invasive macrophyte, *Myriophyllum spicatum*. In response, a monitoring program to track water quality and a winter drawdown program to mitigate growth of *M. spicatum* were initiated in 1985. Recently it was suggested that the drawdown program exacerbated eutrophication of the lake. To test this hypothesis, statistical analyses of the long-term (1985 to 2012) database was conducted with a focus on trophic-related variables. We examined the database using principal component analysis (PCA) and multivariate singular spectrum analysis (MSSA). MSSA is an extension of PCA for multivariate time series data that accounts for both temporal and cross-

sectional dependencies. We found no evidence that the trophic condition declined, or that the drawdowns have deteriorated the water quality. Instead, we found that lower TS, TSI (Chl) and TS (SD) values corresponding with improved trophic conditions occurred in summers following deep drawdowns, while significantly higher values correlated with shallow and less effective drawdowns. Overall, there has been a modest improvement in the trophic condition over time, attributed to a combination of the winter drawdowns and management efforts. In contrast, a steady and significant increase in dissolved salts, likely due to enhanced use of road de-icing treatments, was documented. Potential effects of the rising dissolved salt concentration on lake biota are discussed.

Key words: aquatic invasive species, Candlewood Lake, eutrophication, *Myriophyllum spicatum*, multivariate singular spectrum analysis, principal component analysis, regression, water quality monitoring.

Resignation

As most know, I informed our Chairman and Vice Chairman of my plans to resign as Executive Director earlier in the month. I am proud of all we have accomplished since 1998 when I was first hired by the CLA and since 2003 when I became Executive Director. I am also grateful for your belief and trust in me, your friendship, and your commitment to protect this wonderful resource.

I will be joining Aquatic Ecosystem Research (AER) as a principal partner. Information on AER can be found at <http://www.aerlimnology.com/>.

My Letter of Resignation is attached.

JUNE 2017

Aquatic Invasive Plant Management: Candlewood Lake

by Larry Marsicano



Myriophyllum spicatum L.

Candlewood Lake is a 5,100 acre pumped-storage reservoir created for hydropower production in the late 1920s. The lake is located in western Connecticut and is the largest lake in the State. Since the late 1970s it has been plagued by the aquatic invasive plant Eurasian watermilfoil (*Myriophyllum spicatum*) which adversely impacts recreational use and can also create environmental problems, e.g. loss of plant diversity.

In the early 1980s stakeholders including the hydropower company (Connecticut Light & Power at the time), the CT Department of Energy and Environmental Protection (CT DEEP), the Candlewood Lake Authority (CLA), and Western Connecticut State University agreed on a strategy to keep the milfoil managed. Every other year the lake level would be lowered by approximately ten feet in December and left there through January in an effort to kill the roots of the milfoil. During the alternate year, the winter drawdown was four to six feet. While not the perfect solution because of other potential adverse impacts, the strategy was successful and had minimal impacts on the lake's water quality and nationally recognized fisheries.

Around the year 2000, Connecticut deregulated its energy market making it more competitive, which impacted the timing of the drawdowns and made them less effective. By 2013 an alternative strategy was sought by the CLA, the local agency that serves the five municipalities surrounding the lake, in conjunction with the CT DEEP and the current hydropower company, FirstLight Power Resources. The CLA closely examined options available, including aquatic herbicides. They elected to pursue a nontoxic, biological control... stocking the lake with herbivorous triploido grass carp (*Ctenopharyngodon idella*). [Click Here to Read More](#)

The triploid grass carp (TGC), used to manage aquatic plants, are non-native but bred sterile and have been shown to be quite useful in managing aquatic invasive weeds in many other waterbodies from small farm ponds to the combined 160,000 acres of Lakes Marion and Moultrie that are part of the Santee-Cooper public utility in South Carolina. These fish are certified sterile by US FWS and stocked to graze on many invasive aquatic plants including Eurasian watermilfoil.



Tripoli Grass Carp
photo courtesy of US Fish & Wildlife

In late 2014 the CLA applied and received a grant from the CT DEEP to begin a TGC program and in early 2015 received a permit from the State to import and release approximately 3,800 fish. A second stocking of 4,450 fish is planned for June of 2017 and that should bring the concentration of fish to the State's target goal of 15 fish per vegetated acre. The reasoning behind not exceeding the target concentration is to prevent overgrazing by the fish, which could have adverse impacts on the lake including its fisheries, but still keep weeds managed to an acceptable level.

The community around Candlewood Lake has been very supportive. For example, in 2016 fifty additional fish were surgically equipped with radio transmitters, stocked in the lake and tracked throughout the summer. As part of a fundraising effort, members of the community "adopted" and named many of the radio-tagged fish, including local favorite "*Carp-edium*."

Larry Marsicano is executive director of Candlewood Lake Authority (CLA).

The Sierra Club does not take a position on the use of genetically modified fish to control invasive plants.



CANDLEWOOD LAKE AUTHORITY

Member Municipalities: Brookfield • Danbury • New Fairfield • New Milford • Sherman

PO BOX 37 • SHERMAN, CT 06784 • P (860) 354-6928 • F (860) 350-5611

May 29, 2017

Phyllis Schaer, Chairman
Candlewood Lake Authority
P.O. Box 37
Sherman, CT 06784

Dear Phyllis:

Since 2003 I have had the great pleasure of helping guide this agency and our lake community as Executive Director of the Candlewood Lake Authority and as Research, Education & Public Outreach Director from 1998 to 2002. Much has been accomplished over that time and the CLA is widely regarded as a leader in Connecticut in lake protection and management. A few highlights include the creation of the State's first demonstration *Buffer Garden*, founding and coordinating the J. Marsicano & F. Cioffi Candlewood Lake Clean-Up for 17 years, co-founding and coordinating 12+ years of the unparalleled Project CLEAR, conducting or contributing to lake research and monitoring that has been published in peer-reviewed professional journals, leading our community's efforts in the FERC process, initiating the State's largest triploid grass carp program, and developing and/or strengthening important relationships with scientific, academic, government and corporate entities with interests in our beautiful lake.

Events and circumstances in recent years, however, dictated my investigating other career opportunities that would allow me to study lakes and help communities in their preservation efforts while providing for my family. One such wonderful opportunity for professional growth that I have been pursuing for almost one year is as business partner at Aquatic Ecosystem Research. AER is a freshwater conservation company currently owned and led by Dr. Mark June-Wells who you may remember examined Candlewood Lake data several years ago when an independent, third party was sought by the elected leaders of our member municipalities. Dr. June-Wells was also the lead investigator and author of published research at Ball Pond in New Fairfield on their triploid grass carp program. Dr. June-Wells and I share a passion for studying and understanding lakes, and helping those that care about them. We also share similar personal and professional values and principles.

To realize this opportunity I must tender my resignation as Executive Director effective Friday, June 30, 2017.

I will forever value the many friendships and relationships I have made over the nearly 20 years with the CLA including those with many of the CLA Delegates, Lake Patrol Officers, elected leaders and the many others in our communities who treasure Candlewood Lake. I also will always be forever grateful for the friendships and efforts of CLA staff, particularly Frances, Mark and Nick, who have extraordinarily served the interests of the Authority with modest resources and often under trying conditions. I would encourage you and those delegates interested in preserving the community-valued tradition and importance of the CLA to continue to foster a work environment worthy of such dedication.

Lastly, even though I am finishing my tenure as CLA Executive Director, I will still remain a member of the Candlewood Lake Community with a vested interest in the Lake that dates back to the late 1970s. In the future I intend to seek out alternative ways of working within the community and continuing my commitment to support responsible lake stewardship and the well-being of Candlewood Lake.

Sincerely,



Larry Marsicano

cc: CLA Delegates

CLA Staff



CANDLEWOOD LAKE AUTHORITY

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May 10, 2017
Public Education
Mark Howarth

Bethel STEM Night:

On April 18th Fran and I took part in the Bethel STEM Night at Bethel High School. We were in the area for the kindergarten through 5th grade.

We brought the Enviroscape that night and had a crowd of kids throughout the nearly 2.5 hour event. Fran was a huge help that night, helping with the constant flow of kids waiting to see the next show and helping me clean up and set up for each show.



FOI Class:

On April 26th Larry, Phyllis and I went to a Freedom of Information training class in Southington at the Police Station, which was given by Tom Hennick of the State of CT Freedom of Information Commission.

It was an informative evening which provided us with valuable information.

Candlewood Lake Clean Up:

The May 20, 2017 Clean Up planning is well under way.

- We have updated the online registration system and materials that accompany it and people are signing up to be volunteers and boat captains for that day.
- We created another new design for the shirts as we have each year and we are preparing to print those up.
- We have also designed a new graphic to be embroidered on the "captain's hats" for the volunteer boat captains.
- The much awaited magnets are also on schedule to be delivered in time for the Clean Up.
- Larry has been working on securing all of the food for that day, he's been in touch with the boat captains and we're continuing to work on the rest of the Clean Up prep.



Sponsors:

We are working on securing the 2017 sponsors for the season and have received several already. I have been personally out visiting as many of our regular sponsors as I can to request their support again this year, as well as trying to find new sponsors for the season.

We have designed and printed 2017 sponsor marketing materials and are using those to present to potential 2017 sponsors.

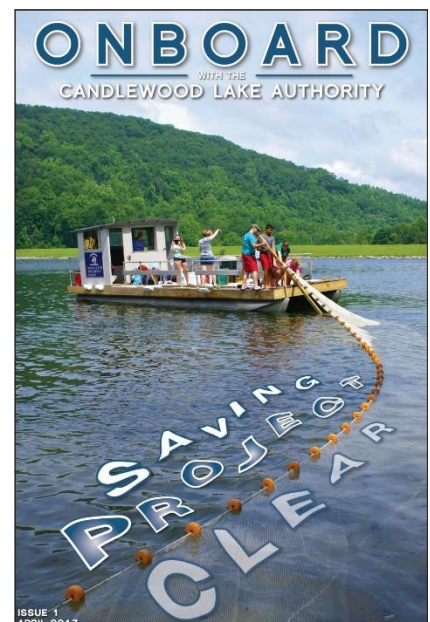
Any interested sponsors can visit our website and click on the red "Become a Sponsor" button next to our sponsors on each page.

CLA Online Magazine:

In my last report we mentioned that the first issue of "Onboard Magazine" was ready to go out to our electronic email readers.

After sending that issue out we got a lot of positive feedback from those who saw and read the issue.

We are looking forward to our second issue which we hope to send out soon.



Soil Testing Day:

Jim McAlister of the Candlewood Watershed Initiative held the 10th Annual Soil Testing Day on April 23rd. I spent the afternoon with Jim at the New Fairfield location in front of Stop and Shop and assisted him with collecting and processing the paperwork that came in prior to them being sent to the CT Agricultural Experiment Station.

It was a very successful day, with a higher than average number of participants coming to drop off samples.



Boating Class:

The Marine Patrol is offering another 2-day safe boating class this spring, on May 19th and 20th. We assisted them in setting up the online registration and payment system for the class, and promoted it through our email channels as well as on Facebook. The class has already sold out.



Cub Scout Pack 467 Den 1:

I had been asked by the Den Leader of Den 1, Pack 467 in New Milford to attend their meeting on May 4th to talk about lake conservation.

That night I met with the boys and their parents and we talked about the value of a clean and healthy Candlewood Lake, both for the people who like to use the lake, as well as the many animals who call Candlewood home.

The presentation went very well and after discussing lake conservation we use the Enviroscape to demonstrate to the Scouts the potential issues caused by storm water runoff.





CANDLEWOOD LAKE AUTHORITY

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June 14, 2017
Public Education
Mark Howarth

Candlewood Lake Clean Up:

Planning and preparation for the Clean Up continued in May up until the day before the event, and on May 20th we had another very successful clean up. We had another 150+ people at the event with a fleet of boat captains ferrying the volunteers around collecting debris.

We seemed to have as much trash as ever this year, if not more, requiring overflow dock floatation to be stacked next to the dumpster.

We designed, created and gave out new t-shirts for the event and we also designed and created new baseball hats for the event which went to the boat captains.

Overall the day was a huge success and the lake is a lot cleaner for it.



Sponsors:

We worked to secure sponsors again this year and have been successful in doing so. After creating sponsor materials for distribution, we also reached out online and most importantly I went to as many potential sponsors as possible in person to visit with them, discuss the lake and ask if they would like to return or join as new sponsors.

Sponsors may still join us as our sponsor season runs through April 2018.

Summer 2017 Magnets:

We produced our popular Summer 2017 Candlewood Lake magnets again this year, which feature our website. I went around to various locations to distribute them (primarily the marinas and some clubhouses), and we have some in the office here.

We are already nearly out as the magnets have become as popular as ever.

Chris Craft:

I photographed the wooden donated Chris Craft boat we have from various angles and showing the details of the boat, and I am working on an advertisement with specs and other information for prospective buyers so that we can hopefully sell the vessel.



Newsletter:

I put out a newsletter on May 25th that featured articles on the following topics:

- Candlewood Lake Clean Up Wrap Up
- Sponsor Highlights
- Top 5 Boating Violations, per the CLAMP in 2016
- Fireworks Announcement
- New CLAMP Patrol Boat Ceremony Announcement
- Upcoming Carp Stocking for Candlewood & Squantz
- FirstLight Announcing Dike Point Online Reservation Requirements

CLAMP Boat:

On the morning of May 26th we held a ceremony at Sherman Town Park for the new CLAMP Patrol Boat. We had a number of people on hand including the three selectmen from Sherman, CLAMP officers, CLA Delegates and Staff, and members of the public among others.

Additionally, the new boat was a part of the Sherman Memorial Day Parade two days later.



Weather Forecasts:

We have resumed a popular segment on Facebook and Instagram this year, posting the weekend weather forecast for Candlewood Lake, which now has an added feature that

in addition to the water temperature, we now also give the UV index and Suntan index for each day.

CANDLEWOOD LAKE

WEEKEND WEATHER FORECAST

FROM METEOROLOGIST BILL JACQUEMIN

BOATING EMERGENCIES...CALL 860-424-3333

Tonight: Becoming partly cloudy. Lows 50-55. Wind NW 10 mph.

Saturday: Partly sunny & mild. High near 70. Wind NW 10-15 mph.

Saturday Night: Mostly cloudy. Lows 55-60. Wind West 5 mph.

Sunday: Partly sunny with an afternoon shower. Highs near 70.

Memorial Day Monday: Scattered showers. High near 65.

Water Temperature: 64 degrees

UV Index: Sat 7 / Sun 6 / Mon 5 **Suntan Index:** Sat 7 / Sun 5 / Mon 2



Lattins Cove:

We had gotten an number of complaints following the Memorial Day Weekend about boats leaving and entering Lattins Cove and ignoring the no wake speed limit there. I had a discussion with Chief Vane about it and he said they would increase their presence in the area.

I then emailed Eleanor Mariani, the Director of the Boating Division at the CT Department of Energy and Environmental Protection about the situation, asking if the Boating Education Assistants who are at the two state ramps checking the boats coming in, can help educate all boats they come into contact with at the ramps that the coves (Lattins and Squantz) are both no wake zone, in an effort to hopefully avoid problems and reduce the number of situations that the Marine Patrol would have to deal with. She said that they would instruct their Boating Education Assistants to inform the boaters launching out of there of the regulations of the coves. She also cc'd Sgt. Ulkus of the CT DEEP Encon Police about the situation who said they would increase their patrols there as well.

The following weekend we received a thank you note via Facebook direct message from one of the neighbors who had originally contacted us after Memorial Day weekend to let us know about the issue, now thanking us for the increased presence of the Patrol they saw and for helping to make a positive change in that cove.

Education Connection Program:

I met with Abby and Kristin of Education Connection, and Alberto Mimo, on June 1st to discuss an upcoming Educational Program they are looking to run on Candlewood on August 4th. This program would involve up to 140 third through fifth graders in a 1 day program on the lake.

We discussed potential locations, logistical issues and how we may be able to run the program.

Grass Carp Stocking:

In preparing for the carp stocking on June 8th we created some signage and posted them at all of the state and municipal ramps, notifying the fishermen that removing grass carp from Candlewood Lake is prohibited.

Then on stocking day, I photo-documented the stocking day at the sites and was on site to assist at some other locations when we were able to split up to cover more ground.



Patrol Press Release for Fireworks:

We have updated the press release for this year for the fireworks, which informs boaters of changes in boat traffic patterns, restrictions and safety info for that night. We will release that next week.

New Stop Aquatic Hitchhikers Signs:

Nic and I have been installing the new updated Stop Aquatic Hitchhikers signs that we produced with funding from the CT DEEP.

These signs are going up at all state and municipal ramps and feature much clearer, and updated messaging for boaters coming to and leaving the lake.



Digital Media Updates:

We are continuously updating and growing our digital media presence and outreach efforts.

In approximately the last month, we have seen our Facebook followers increase by around 175 people, as we now approach 2,700 followers. Our largest post reach this year about the fireworks was seen by over 27,500 people.

Additionally, I made some improvements to the website's layout and look on the home page, as well as to help bring our social media presence more in sight to boost our reach.