



CANDLEWOOD LAKE AUTHORITY

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

Minutes of Regular Meeting January 11, 2017

Attending:

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

Absent:

P. Eng	New Milford
C. Robinson	Danbury
B. Kemble	New Fairfield
B. Brown	Brookfield
E. Siergiej	Danbury

F. Frattini, CLA Administrative Coordinator
M. Howarth, CLA Public Education Director
L. Marsicano, CLA Executive Director
D. Vane, CLAMP Chief

Recorder: F. Frattini

Guests: Sui Wodarski, New Milford
Katrina Koenig, *News Times*

Chairman, Phyllis Schaer, called the regular meeting of the Candlewood Lake Authority to order at 7:30 P.M. at Brookfield Town Hall, Brookfield, CT. She welcomed the guests and Doug Cushnie the new delegate for the Town of Sherman. Mr. Cushnie gave a brief introduction leading to his interest of being on the CLA.

Mrs. Schaer asked Chief Vane if he had anything for the delegates, Chief Vane advised that there is nothing to report except that three officers will not be returning for the 2017 season but that there are still enough officer to cover patrol shifts for the season.

Secretary's Report: Jerry Murphy, Secretary, noted that there were no corrections to the December 14th minutes. *Mark Toussaint made a motion to approve the minutes of the December 14, 2016 meeting as written, seconded by Joe Wodarski and voted with all in favor. Minutes have been accepted as written.*

Chairman's Report: Phyllis Schaer, Chairman, reported that the first item was to advise that Doug Cushnie has been appointed to the Watershed Management Committee and then she asked for approval of the Committee Chairmen for the coming year as follows:

Executive: Phyllis Schaer; Finance: Bill Lohan; Equipment/Facilities: Ed Siergiej; Public Awareness: George Linkletter; Public Safety: Joe Wodarski and Jerry Murphy Co- Chairmen and

Watershed Management: Mark Toussaint. *Jerry Murphy made a motion to approve the Committee Chairs as stated here, seconded by Joe Wodarski and voted with all in favor.*

Mrs. Schaer advised an addition to the Agenda that will be to vote to approve the participation of the CLA with WCSU on an EPA grant for the study of Blue Green Algae. Larry Marsicano explained the grant, its purpose, the CLA's part, funding and timing. The grant that WCSU is applying for is \$675,000.00 and CLA's portion will be \$24,000.00 to do the bi-weekly field sampling. Discussion followed. *Mark Toussaint made a motion to approve CLA participation with Western Connecticut State University on their EPA grant to study Blue Green Algae blooms in Candlewood Lake. Seconded by Jerry Murphy and voted with all in favor. Motion carried.*

It was noted that under the Secretary's Report the approval of the minutes of the Special meeting were missed. *Jerry Murphy made a motion to approve the minutes of the December 30, 2016 Special Meeting as written, seconded by Dan Rosemark and voted with all in favor. Minutes have been accepted as written.*

Mrs. Schaer asked for a vote on gift for the Administrative Coordinator for all the extra work, even coming in during holiday break to meet with our Auditor to work on the new Chart of Accounts. Items from the budget were combined in the new chart of accounts to simplify reporting. This allowed the new report to be available for this meeting. Delegates gave Ms. Frattini a round of applause for a job well done. Mr. Rosemark asked the Chairman to send a Letter of Thanks to our Auditor.

Mrs. Schaer advised that the agenda format has been revised to include more detail. The agenda had always been in compliance with the CLA By-Laws but she had researched agendas used by the 5 Towns and this new format has added more detail. (Any delegate that would like an item on the agenda should advise the Chairman and Administrative Coordinator no later than the Thursday before the meeting date.)

On December 21, 2016 she attended the LG Sonics presentation (via teleconference) at Brookfield Town Hall, it looks very interesting and First Selectman Cope of Sherman is interested in trying it in the cove near the Sherman Town Beach.

The "Regional Lakes Task Force Meeting" is scheduled for tomorrow in New Milford; it will be a good opportunity for local lakes to discuss common issues.

The CLA through our Executive Director has applied for a permit to stock Grass Carp this spring.

FirstLight Power did drawdown the lake the extra foot as the CLA had requested and the CLA appreciates FLPR working with the CLA to address the concerns of the lake residents.

She advised that she had attended the first budget hearing of this season at New Fairfield this past Monday that left her with questions regarding the proposed budget request - Mr. Hodge noted that is unfair commentary. Mrs. Schaer advised that many of the questions asked of her could be found in the delegate binder that all new delegates receive. Discussion followed - noting that it appears that New Fairfield could release the encumbered funds once their questions regarding the discrepancies in the new chart of accounts and the budget line items - which was noted earlier that some lines were combined to simplify reporting and if a report on the CLERC (Education Fund) could be provided.

Vice Chairman's Report: Mark Toussaint noted nothing to report.

Treasurer's Report: Bill Lohan, Treasurer, reported Phyllis covered the new format for the monthly report and highlighted that as of December 31st Income to date is 68% of budget, 75% of funding from the Towns has been received (Danbury and New Fairfield still have open amounts). Expenses year to date are Administration is at 59%, Equipment/Facilities 38%, Public Safety 46%, Public Awareness 41% and Watershed Management 29% making the total year to date expenditures 47% of the total.

Mr. Lohan made a motion to transfer from Equipment/Facilities Line #231 Buoy Maintenance \$10.00 to Line Item #227 Vehicle Maintenance, then from Watershed Management Line #531 Professional Development \$1,433.00 to Line #514 Travel and from Public Awareness Line #413 School Programs \$658.00 to Line #416 Merchandise Sales, to cover the overages. Seconded by Jerry Murphy and voted with all in favor.

Mr. Lohan noted that there are enough funds to cover the next two months and if the outstanding Towns have not paid then the CLA may need to curtail activities and cut programs. Discussion followed. Dan Rosemark suggested writing to Danbury to ask if they can pay sooner and Mr. Hodge suggested that if the New Fairfield BOS has their two questions answered they should release the encumbered funds. *Bill Lohan moved that the Treasurer's Report including the Profit and Loss Budget vs. Actual for the month ended December 31, 2016 be approved as presented. Seconded by Dan Rosemark and voted with all in favor. Treasurer's Report for the month ended December 31, 2017 has been accepted and filed for audit.*

Dan Rosemark made a motion to send a letter to the City of Danbury to request payment of their outstanding appropriation, seconded by Mark Toussaint and voted with all in favor.

Executive Director: Larry Marsicano Executive Director, advised his report is attached to these minutes and then noted the highlights: Preparation of the proposed 2017/2018 Budget which was sent to all Towns on December 21st, cyanobacteria/water quality research with WCSU (previously discussed), planning the Regional Task Force Meeting, response to FirstLight's Summary Report on CLA's request for GIS and digital mapping data, GIS intern during WCSU break, LG Sonics Presentation, advising on New Fairfield High School project on Squantz Pond water quality, and inviting Dr. Robert Kortmann to the CLA February meeting to discuss Blue Green Algae issues. Jerry Murphy asked if the conditions of the drawdown will be favorable – Mr. Marsicano advised that the weather seems to have cooperated and we may see some relief from the milfoil this summer.

To cover an item that was voted but not on the agenda last month, *Bill Lohan moved that the CLA ask FirstLight to add one foot to the drawdown to alleviate property damage to the lakefront property owners, seconded by Mark Toussaint and voted with all in favor. The motion again carried.*

Public Education Director/Public Awareness Committee:

Mark Howarth, Public Education Director, noted his report is attached to these minutes. The annual appeal is on par with past appeals but there seems to be more coming from on-line donations than in the past. He advised that the State of the Lake event will be on April 1st this year with a location to be determined – it will probably be on the West side of the lake as last year it was at Sail Harbour. The Clean Up is scheduled for May 20th with a rain date of May 21st.

Committee Reports:

Public Safety Committee: Nothing to report

Equipment/Facilities: Nothing to report.

Watershed Management Committee: Mark Toussaint, Committee Chairman noted that the committee had not met last month and had nothing to report.

Old Business/New Business:

Jerry Murphy read as suggested by his First Selectman a possible By-Law change to be discussed at the February meeting as follows:

To amend Article VII – Finances to read

“Section 1A. Member towns are billed on 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.

Mayor of New Milford suggested adding “loss of services for delinquent account – Towns”

Mr. Hodge suggested that these two Towns seek legal counsel on this before the CLA acts on the suggestion.

Mr. Hodge moved to table “Discussion on outside employment of CLA employees”, seconded by Jack Keating, Discussion and before the vote, Mrs. Schaer noted that: “Full-time CLA employees are required to work 35 hours per week plus attend two meetings related to the Authority a month.

The CLA procedures do not specify how an employee can spend their time away from work or who they can work for if they seek additional employment. The only restriction would be that it is not a conflict of interest for the CLA.” Motion was voted with all in favor, the discussion has been tabled.

Mrs. Schaer advised that she would send out the CLA goals for the coming year.

Mr. Rosemark asked if the CLA could look into having the budget on the website.

Mr. Linkletter asked - how does the CLA plan to resolve the impasse with the Town of New Fairfield? Mrs. Schaer asked the delegates for any suggestions on how to move forward with the Town of New Fairfield and work collaboratively with them for the betterment of the Lake.

*Jerry Murphy moved to adjourn the meeting. Seconded by John Hodge.
Meeting adjourned at 8:46 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.



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***Executive Director's Report
January 6, 2017
Larry Marsicano***

The following report summarizes Executive Director activities from December 10, 2016 to January 6, 2016.

Preparation of FY 2017/2018 Budget Materials

Budget packets and materials for electronic submittal were all completed and sent out to all municipalities by Thursday, December 22nd. We have received several requests to appear to discuss our budget and are scheduled to meet in New Fairfield on January 9th at 11am and in Sherman on Saturday, February 25th at 10am. Much of the information requirement for Danbury was in electronic / Google Docs format. Ms. Thandi Bradix in the Danbury Finance Department was extremely helpful in helping us file correctly and in a timely fashion.

Cyanobacteria / Water Quality Research

As discussed in my recent reports, I have been working with Drs. Edwin Wong and Ghada Salah on a grant proposal in response to the EPA's request for research proposals on freshwater harmful algal blooms. The research proposal which I am a co-PI on, "looks to develop a better understanding of factors that trigger and enhance harmful algal blooms (HABs) by correlating the presence of toxin genes, toxin gene expression, and toxin concentrations with environmental factors and water quality parameters. The study seeks to enhance forecasting of HABs, and increase public awareness."

The total project budget is \$674,088. Of that ~\$24,000 is budgeted for CLA to offset our costs of managing field data and sample collections during biweekly sampling of the four deep water sites and five public beaches on Candlewood from May through October in 2018 and 2019. Additional cost savings for the CLA include nutrient analyses during water sampling for those years as well as half of the blue-green algae toxin analyses at beaches those years. I am requesting board approval to commit CLA to this study.

The proposal required a 2 page summary CV from the PIs. I have included my 2-page summary at the end of this report.

Planning for a Regional Lakes Task Force Meeting

Also discussed in recent reports, we have been planning a Regional Lakes Meeting which is scheduled for Thursday, January 12th at 10am in the New Milford Town Hall. The agenda for the meeting is attached at the end of the report.

Representatives from the following entities have committed to attending:

- Candlewood Lake Authority
- Ball Pond Advisory Commission
- Friends of the Lake (Lillinonah)
- Lake Kenosia Commission
- Squantz Pond Community
- Lake Housatonic Authority
- FirstLight Power Resources
- Western Connecticut State University
- Housatonic Valley Association
- US Fish & Wildlife Service
- CT DEEP

Response to FirstLight's Summary Report on CLA's Request for GIS and Digital Mapping Data

As approved at the December 30, 2016 Special Meeting of the CLA, our comments on FirstLight's consultation draft of *Summary Report on CLA's Request for GIS and Digital Mapping Data* were officially sent to FirstLight. On Wednesday, January 4th FirstLight submitted their report to FERC which included responses to many of the CLA comments as well as our letter in its entirety. The submitted report looks to have been changed modestly from the consultation draft we commented on and Dan Rosemark has committed to determining the extent of the change. Included at the end of this report is the table found in FirstLight's submittal addressing CLA comments.

GIS Internship during WCSU Break

We have continued to provide guidance to Michelle Bissett from WCSU who is working on several GIS projects for CLA including a density analysis of in-use vessels on Candlewood from the one map provided by FirstLight created from aerial imagery taken on July 6, 2014. The other project is a map and database on sales of shoreline homes on Candlewood since 2013. As part of the project I reached out to the Towns of Brookfield and Danbury to obtain parcel maps, which Michelle is now using. I wish to thank those municipal offices who provided that data recently and the other three who provided it in the past couple of years.

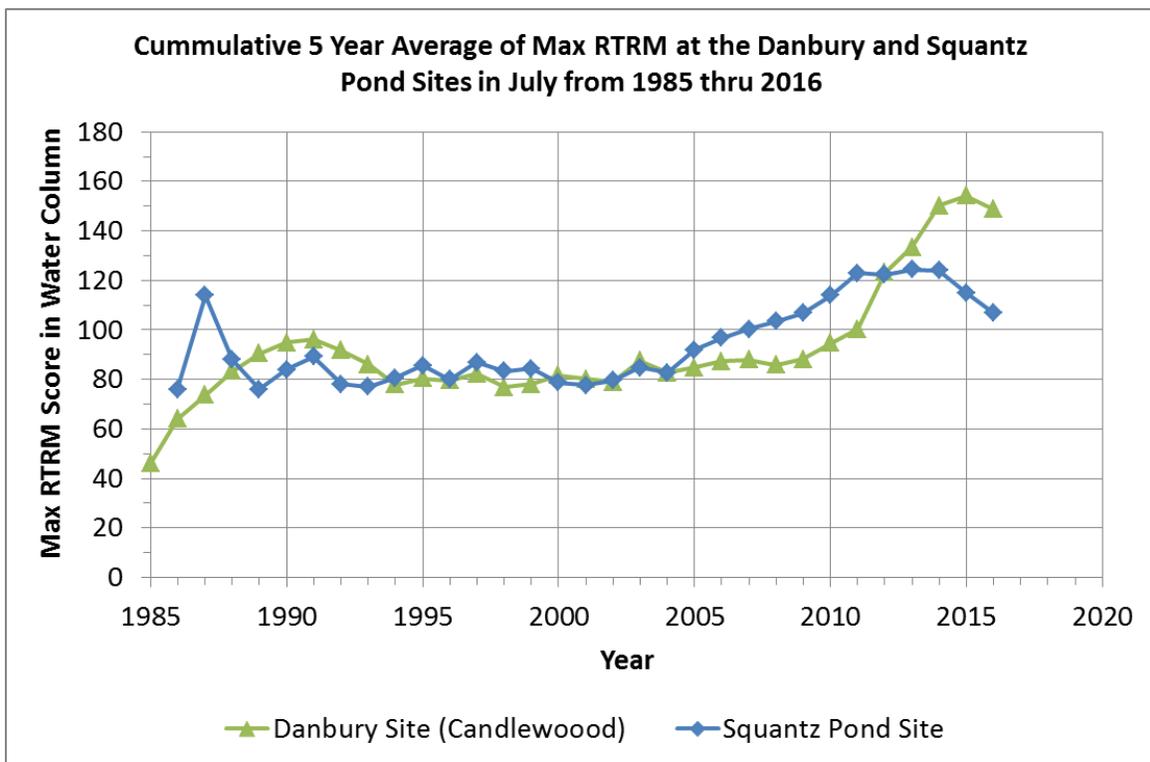
LG Sonics Presentation

I was asked to coordinate a teleconference presentation by LG Sonics on the use of ultrasonics to reduce cyanobacteria (blue-green algae blooms) at Candlewood Lake beaches. The presentation by Lisa Marie Brand of LG Sonics occurred on December 21, 2016 at the Brookfield Town Hall. Attending were First Selectman Clay Cope from Sherman, First Selectman Steve Dunn from Brookfield, Jerry and Susan Murphy, Phyllis

Schaer, Larry Marsicano, and Katrina Koerting from the News-Times. The technology has some promise as a method for prevention of blooms at public beach areas. I do have some concerns and have started providing additional data on Candlewood Lake to LG Sonics to refine a proposal. First Selectman Cope expressed interested in testing the technology in Allen’s Cove.

Advising on a New Fairfield High School Science Project

We met again with Josh Sproule and Jake Cleary of New Fairfield High School on December 20, 2016 and January 6, 2017 to provide advisement and guidance on their effort to compile Squantz Pond water quality data. Josh and Jake have completed compiling temperature profile data for Squantz Pond much like CLA did to examine stratification patterns over time. This portion of their research has been completed with results forwarded to Dr. Pete Siver of Connecticut College and Dr. Mitch Wagener of WCSU. An example of results from their efforts is shown below and compared to data from the Danbury site for the same month over a 30 year period.



CLA February Board Meeting

Dr. Robert Kortmann has accepted my invitation to discuss Candlewood Lake’s blue-green algae issues and provide thoughts on mitigating this problem and will be our guest presenter in February.

LAURENCE J. MARSICANO, M.A.

25 Nutmeg Drive, New Milford, CT 06776 * (860) 354-6928 * claeexecdir@earthlink.net

Professional Experience

- Adjunct Faculty – Western Connecticut State University, Biological and Environmental Science Department. August 2012 to present
- Executive Director – Candlewood Lake Authority, Sherman, CT 06784. April 2003 to present
- Lake Preservation Director – Candlewood Lake Authority, Sherman, CT 06784. April 1998 to Oct. 2002
- Academic Research Associate – Connecticut College, New London, CT 06320. Sept. 1989 to Jan. 1998
- Visiting Lecturer – Connecticut College, New London, CT 06320. August 1997 to January 1998
- Research Assistant – Western Connecticut State University, Danbury, CT 06810. 1987 to 1989

Education and Training

- Professional Certification in GIS, Pace University, 2014
- Certification by National Project WET as a Teacher Training Facilitator, CT DEP, 2002
- Graduate Certification in GIS Technology, University of New Haven, 2001
- M.A. in Botany, Connecticut College, 1993
- B.A. in Biology, Western Connecticut State University 1988

Awards

- Watershed Conservationist Award from the Housatonic Valley Association in 2011
- Conservation Professional of the Year from the Litchfield County Conservation District in 2002
- Honor Award, Southern New England Chapter of the Soil and Water Conservation Society in 2000.
- Green Circle Award from the Connecticut Department of Environmental Protection in 1999.
- Conservation Award from Housatonic Valley Association for publication entitled Candlewood Lake: Watershed Awareness and Lake Preservation in 1998.

Organizations

- Connecticut Federation of Lakes – Founding member 1995 - present; Treasurer from 1995 – 2001; Vice President from 2009 – 2011; President from 2011 - 2015
- Northwest Conservation District – Board member from 2003 – 2010
- Connecticut Forest and Park Association – Board member from 1994 – 2002
- North American Lakes Management Society – Member since 1990

Selected Peer-Reviewed Scientific Papers

Kohli, P., Siver, P.A., Marsicano, L.J., Hamer, J.S., and Coffin, A.M. In Review. Statistical Assessment of Long-term Trends for Management of Candlewood Lake, Connecticut, USA. *Journal of Lake and Reservoir Management*.

Loneragan, T., L. Marsicano, and M. Wagener. 2014. A laboratory examination of the effectiveness of winter seasonal drawdown to control invasive Eurasian watermilfoil (*Myriophyllum spicatum*). *Journal of Lake and Reservoir Management*. 30:381-392

- Moore H.H., Niering W.A., Marsicano L.J., and Dowdell M. 1999. Vegetation change in created emergent wetlands (1988–1996) in Connecticut (USA). *Wetland Ecology and Management* 7:177-191.
- Siver, P.A. A. M. Lott, E. Cash, J. Moss, and L.J. Marsicano. 1999. Century changes in Connecticut, USA, lakes as inferred from siliceous algal remains and their relationship to land use changes. *Limnology and Oceanography* 44:1928-1935.
- Siver, P.A. and L.J. Marsicano. 1996. Inferring trophic conditions using scaled chrysophytes. *Beiheft zur Nova Hedwigia* 114:233-246.
- Siver, P.A., Canavan, R.W. IV, Field, C., Marsicano, L.J. and A.M. Lott. 1996. Historical changes in Connecticut lakes over a 55 year period. *Journal of Environmental Quality* 25: 334-345
- Marsicano, L.J., J.L. Hartranft, P.A. Siver, and J.S. Hamer. 1995. An historical account of water quality changes in Candlewood Lake, Connecticut, over a sixty-year period using paleolimnology and ten years of water quality data. *Journal of Lake and Reservoir Management* 11:15-28.
- Lott, A.M., Siver, P.A., Marsicano, L.J., Kodama, K.P. and R.E. Moeller. 1994. The paleolimnology of a small waterbody in the Pocono Mountains of Pennsylvania, USA: reconstructing 19th-20th century specific conductivity trends in relation to changing land use. *Journal of Paleolimnology* 12: 75-86.
- Marsicano, L.J. and P.A. Siver. 1993. A paleolimnological assessment of lake acidification in five Connecticut lakes. *Journal of Paleolimnology* 9:202-221.
- Siver, P.A. and L.J. Marsicano. 1993. *Mallomonas connensis sp. nov.*, a new species of Synurophyceae from a small New England lake. *Nordic Journal Botany*. 13: 337-342

Selected Policy Papers and Submittals

- Marsicano, L.J. 2009. An Examination of Recreational Pressures on Candlewood Lake, CT. Candlewood Lake Authority. Sherman, CT. 68 pp.
- Marsicano, L.J., et al. 2000 – 2012. Submittals of the Candlewood Lake Authority to the Federal Energy Regulatory Commission during license renewal and management plan processes for Housatonic Hydro, FERC Docket No. P-2576.
- Marsicano, L.J. and A.H. Brawley. 1997. Land use, watersheds and aquatic resources. *Connecticut Woodlands* 62(3): 21-23

Other Publications and Reports

- Tarsi, M., K. Ponak, and L. Marsicano. 2007. Creating a GIS to Monitor the Shoreline of Connecticut's Largest Lake. *ArcNews*. 29:34
- Marsicano, L.J. 1993 – 2006. Water Quality Monitoring of Candlewood Lake and Squantz Pond: Completion Reports to the Candlewood Lake Authority. Sherman, CT.
- Marsicano, L.J., B.A. Lockhart, G.W. Kupper. 1998. Candlewood Lake: Watershed Awareness and Lake Preservation. Candlewood Lake Authority. Sherman, CT. 43 pp.
- Siver, P.A. and L.J. Marsicano. 1991. Assessing acidification trends in Connecticut lakes using a paleolimnological approach. CT. Department of Environmental Protection Bulletin, 44 pp. + appendices.



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REGIONAL LAKES TASK FORCE MEETING

Thursday January 12, 2016

New Milford Town Hall, E. Paul Martin Room

10 Main Street

New Milford, CT 06776

10am to 12:30pm

(Lunch provided at noon)

AGENDA

- | | |
|---------------------------|---|
| 10am to 10:10am | Welcome – David Gronbach, Mayor of New Milford and Phyllis Schaer, Chairman Candlewood Lake Authority (CLA) |
| 10:10am to 10:20am | Introductions of Attendees and Lakes Represented |
| 10:20am to 12pm | Zebra Mussels |
| 10:20am to 10:40am | • WCSU Zebra Mussel Research Recap – Drs. Mitch Wagener and Ed Wong (Western CT State University), Larry Marsicano (CLA) |
| 10:50am to 11:05am | • Recent Findings by Ethan Nedeau, Biodiversity on behalf of FirstLight Power Resources and implications – Stuart Piermarini (FirstLight Power), Larry Marsicano & Ray Crawford (CLA) |
| 11:05am to 11:20am | • Update on proposed study using CO₂ at Laurel Lake to prevent new recruitment of veligers – Larry Marsicano (CLA) and Bill Hyatt (CT Dept. of Energy and Environmental Protection) |
| 11:20am to 11:35am | • Field tests on “Dock Disk” – Rebekah White (Friends of the Lake) |
| 11:35am to 11:50am | • Decontamination Station – Jim McAlister (Candlewood Watershed Initiative) and Larry Marsicano (CLA) |
| 11:50am to 12pm | • Other Folder Materials - Larry Marsicano and Phyllis Schaer (CLA) |

12pm to 12:30pm

Future Meetings – Other topics of interest (aquatic invasive species – plants, blue-green algae, etc.)?

ATTACHMENT B - Response to Comments

CLA Comment	FirstLight Response
<p>CLA -1 “Your consultation draft indicates your are unclear what digital or GIS data would aid us in our responsibilities to control and abate aquatic weeds and algae, study water management and/or enforce boating safety. With those responsibilities, as well as those as members of the Lake Advisory Committee and Technical Committees for Candlewood Lake, much of your digital map data in a GIS format are, or would be beneficial.” (p. 2)</p>	<p>FirstLight has received approval to discontinue the annual convening of a Lake Advisory Committee (LAC) and neither the Technical Advisory Committee for the Nuisance Species Monitoring Plan nor the Rocky River Drawdown Committee have GIS related requirements.</p>
<p>CLA-2 “With the full complement of in-use boating maps, we intend to conduct the analysis, present it to you and the CT DEEP and if supported by the analysis, make a request to meet with you to discuss an addendum to the Form 80/Recreational Summary for possible submission.” (p. 2)</p>	<p>FirstLight has discussed this concern with the CLA and believes that the “Candlewood Lake Overcrowding Plan” clearly defines the capacity related challenges at Rocky River. In addition, the LAC meetings provided the opportunity for the CLA and the CTDEEP to discuss capacity-related management controls and commensurate enforcement measures as required in the License. Therefore additional information is not needed regarding boat overcrowding.</p>
<p>CLA-3 “Maps you provided in PDF format were most likely created in a Geographic Information System format as required of you by FERC for other maps.” (p. 3)</p>	<p>FirstLight filed its Exhibit G maps in PDF. The required GIS data that was submitted to the FERC on November 11, 2013 included reservoir edge and tailraces at the project.</p>
<p>CLA-4 “As an agency charged with abating weed and algae growth and water and watershed management, we are requesting the GIS data identifying locations of shoreline activities and licenses/permits which trigger revegetation or implementation of vegetated buffer.” (p. 3)</p>	<p>FirstLight cannot and does not maintain or collect any vegetated buffer or shoreline activities data you have requested in a GIS format.</p>
<p>CLA-5 “With data on location of buffers, existing and planned, we can better assess FirstLight’s progress in protecting water quality in the lake and provide you notification of issues should they arise at sites.” (p. 3)</p>	<p>FirstLight monitors, consults with stakeholders, and reports annually to the FERC on vegetated buffers with details of its progress in implementing its shoreline buffer rules during the previous year. If CLA believes there is a revegetation issue at a particular site it should notify FirstLight so a determination may be made if action is necessary or appropriate. GIS data is unnecessary for this purpose.</p>

<p>CLA-6 "Provision of the data we are requesting can be accomplished without releasing such (personal data) information. Two methodologies are provided below:" 1-GIS Point File or 2-GIS Polygon (p.3)</p>	<p>See response to CLA comment 4 & 5 above.</p>
<p>CLA-7 "The Housatonic Valley Council of Elected Officials (HVCEO) in their comments on FERC's Draft Environmental Impact Statement noted the importance and value of sharing digital map information as shoreline management tools. They additionally commented that the licensee should also be responsible for coordinating the lots on the map with digital ownership information." (p.3)</p>	<p>FirstLight believes that the digital copies of these resource maps, and their updates over the license period, which are available at no charge to governmental entities involved with the FERC project via FirstLight's company website in PDF format satisfies the Western CT Council of Governments (fka HVCEO) comments in the relicense proceeding.</p>
<p>CLA-8 "The supportive documentation for this concept under this docket is considerable and goes back very far . . . FERC staff recommended sharing existing available data with requesting agencies." (pp. 3-4, citing final licensing EIS in n. 12)</p>	<p>FirstLight disagrees with the CLA and believes this was resolved in 2004. CLA's comments and reference in fn. 12 to the license proceeding EIS misrepresent the position of the Commission staff. Excerpts from the EIS discussion (p. 3-124) are provided below.</p> <p>"[The licensee] does not propose to provide regular updates of the digital mapping database compiled during the application process to other parties.</p> <p>The CLA, HRC, HVA, and HVCEO request that [the licensee] provide, free of charge, digital mapping data to local resource management and planning agencies. They request that [the licensee] update the data and distribute it every 5 years during the license period."</p> <p>FERC staff responded:</p> <p>"It is not reasonable to require the licensee to generate or update land use data for outside entities because NGC acquired the data from private sources during the application process and thus has proprietary rights over the data. Local governments and regional agencies are the proper entities for generating, maintaining, and updating land use and planning data. We do, however, recommend that NGC share existing available data with these requesting agencies."</p>

<p>CLA-9 Article 407 contemplates “identification on maps of disturbed [licensee-owned] lands with the potential for revegetation and provisions to revegetate these areas within the project boundaries”(p. 4)</p>	<p>FirstLight created the targeted revegetation and educational programs to meet this goal through implementing demonstration areas as required under License article 407. The CLA was consulted under the LAC on these maps in 2014 as part of the development of the Shoreline Management Manual.</p>
<p>CLA-10 Article 407 contemplates “a provision to share existing digital mapping data upon request.”</p>	<p>See CLA Response 7 and text of response to FERC information request.</p>
<p>CLA-11 “With provision of the full complement of recreational boating data and data providing locations of existing and future shoreline vegetative buffers, can continue more effectively to create a collaborative partnership to manage the recreational and environmental values associated with this project.” (p. 4)</p>	<p>FirstLight believes that the GIS data identified in the draft summary report Attachment A identified as Public Data in blue which was provided to the CLA as part of this consultation meets the requirements of its License to supply the CLA with digital mapping data upon request. FirstLight does not maintain any vegetated buffer data in GIS (See response 4, 6 & 7 above.). FirstLight also looks forward to working collaboratively with the CLA in the future.</p>
<p>The CLA’s full written consultation is below</p>	



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January 11, 2017
Public Education
Mark Howarth

2016 Written Appeal:

The written appeal went out in December as in previous years. This year, as in recent years, we sent the appeal to the people who live along the immediate shoreline of the Lake as well as those in the lake communities, a total of nearly 5,300 people. While no mailing list is perfect, we did our best to reach as many of the people in our target audience as possible and we make corrections as we find any errors.

The returns on the appeal have been good so far and on par with the average of prior years and we anticipate they will continue, as in past years, albeit at a slowing pace as we get further away from the date they received the letters.

2016 E-Appeal:

As time goes on and more people decide to take advantage of the convenience of online donations and as our email subscribers and social media followers continue to grow, the value of the electronic appeal also grows.

This year we did a two-part electronic appeal. We designed two separate appeals for the electronic media. Both followed the theme of our written appeal, but were shortened for the electronic readers.

The first e-appeal went out on December 19th to our email list, which corresponded to the timing when many in our area would be receiving our written appeal letter. This was the longer of the two electronic appeals. (see below). The electronic format allowed us to use images and graphics that we felt made it appealing to view, and we tried to give people an opportunity to either easily skim the highlights or fully read the appeal, depending on how they chose to consume what we sent. The e-appeal was fully linked to our online donation page, so they could click to be taken right to the page. (1st image below)

The second appeal letter was sent on December 30th, and had the subject line of "There's still time to give for a better Candlewood Lake". This version was shortened even further because it was merely a reminder email. It contained just the highlights of the original e-appeal. (2nd image below).

CANDLEWOOD LAKE

THE CROWN JEWEL OF CONNECTICUT



2017 may prove to be the most challenging summer yet on Candlewood Lake.

The beauty of Candlewood Lake is undeniable - but each year keeping it that way comes with a changing set of challenges, especially environmental ones. Nobody has more experience or knowledge about our lake than the Candlewood Lake Authority, and we work every day to ensure the health and safety of Candlewood Lake and its users. [We are dedicated to protecting the Lake, and your donation will help make 2017 a success!](#)

Immediate Challenges Facing Candlewood Lake and the CLA

Expand the CLA's Sterile Grass Carp Program to Combat Milfoil Growth in 2017 and Beyond

- 1) Nearly 4,000 sterile grass carp have already been stocked in Candlewood Lake to eat the milfoil.
- 2) CLA and Western Connecticut State University stocked and tracked 48 radio transmitter-equipped carp this past June and will use the data of their movements and eating patterns to assist in determining future stocking locations and plans.
- 3) **2017 Outlook:** New restrictions on the drawdown to minimize the risk of zebra mussel introductions increase the importance of the grass carp program as a key milfoil control method. CLA has already applied with the State of CT to stock an additional 3,000 sterile carp in 2017. [We ask for your support as we look to continue this promising long-term milfoil control solution!](#)

Determine Changes Driving Blue-Green Algae Blooms & How to Reduce Them in Candlewood

- 1) 2016: CLA and Western Connecticut State University launched local blue-green algae toxin testing program.
- 2) Weekly samples were taken from the town beaches with next day results from the WCSU lab.
- 3) Benefit to you: Results posted immediately on Friday afternoons, each week, on CLA social media and website
- 4) **2017 Outlook:** The CLA is exploring possible ways to help control localized blue-green algae blooms as well as find out what may be causing the increased bloom frequency. [We ask for your support as we work to keep you informed of test results and look for solutions to increasing blue-green algae blooms.](#)

Address New Zebra Mussel Threat/ Develop Rapid Action Response Plan

- 1) Zebra mussel threat grew this fall with the discovery of adult zebra mussels in the Housatonic by the pump up station where Candlewood gets the water it needs to remain viable.
- 2) Winter 2016/2017: CT Dept. of Energy and Environmental Protection, Candlewood Lake Authority, US Fish and Wildlife and First-Light come to agreement to support a shallow drawdown, instead of deep, to reduce volume of water exchange and the risk of pumping adult zebra mussels into Candlewood...but risk not eliminated.
- 3) **2017 Outlook:** The CLA is continuing efforts to keep zebra mussels out of Candlewood while developing a rapid detection and response plan, should zebra mussels enter the Lake. [This is a large challenge now facing the CLA and the Lake, and we look to you for your continued support of our efforts.](#)

Maintain A Safe Boating Environment for All Who Use Candlewood Lake

- 1) Fall 2016: CLA replaces Patrol Boat that was forced off the water due to a structural failure.
- 2) CLA worked closely with the Town of Sherman who took the lead in securing a multi-municipal state grant to provide us with the majority of funding we needed for the new patrol boat, with the towns providing the balance.
- 3) **2017 Outlook:** Spring will mark the launch of the new boat, better equipping our Marine Patrol to better serve you for years to come. [Your support for our Marine Patrol as they work to keep you and your family safe on the Lake is always needed!](#)

Our Commitment: We will continue to fight milfoil with additional sterile grass carp, work to keep on top of the blue-green algae blooms and keep you informed along the way, utilize our resources to keep zebra mussels out while backing that up with monitoring on Candlewood, work with the towns to help keep the water entering the lake from our watershed clean and of course put out a professional Marine Patrol as we have since 1972.

Your financial support will help ensure that the Candlewood Lake Authority can respond to the ever-changing challenges here on Candlewood Lake, as we make every effort to preserve and protect this beautiful lake, wonderful natural resource...and home to many.

Thank you for your support!

Visit us at www.candlewoodlakeauthority.org or [click here to donate online.](#)
Checks may be made out to CLA and sent to us at PO Box 37, Sherman, CT 06784

DONATE



CANDLEWOOD LAKE AUTHORITY
- Preserving and Protecting Candlewood Lake Since 1972 -

DONATE NOW
Protect Candlewood Lake

Last days to give in 2016!
2017 may prove to be the most challenging summer yet on Candlewood Lake.

Immediate Challenges Facing Candlewood Lake and the CLA

- **Expand the CLA's Sterile Grass Carp Program to Combat Milfoil Growth in 2017 and Beyond**
2017 Action: CLA has applied with the State of CT to stock an additional 3,000 sterile carp in 2017.
- **Determine Changes Driving Blue-Green Algae Blooms & How to Reduce Them in Candlewood**
2017 Action: The CLA is exploring possible ways to help control localized blue-green algae blooms (e.g. ultrasonic buoys) as well as find out what may be causing the increased bloom frequency.
- **Address Increased Zebra Mussel Threat / Develop Rapid Action Response Plan**
2017 Action: The CLA is continuing efforts to keep zebra mussels out of Candlewood while developing a rapid detection and response plan, should zebra mussels enter the Lake.
- **Maintain A Safe Boating Environment for All Who Use Candlewood Lake**
2017 Action: Spring will mark the launch of the new CLA Patrol boat, better equipping our Marine Patrol to improve our service to you for years to come.

Thank you for your support!

Visit us at www.candlewoodlakeauthority.org or click to donate online.
Checks may be made out to CLA and sent to us at PO Box 37, Sherman, CT 06784

DONATE

Online Store Sales:

We had a very busy month this December, processing, packing and shipping orders for the online store. This year was the busiest December we have had since our store began back in 2012. We processed and sent nearly 55 orders, in addition to a number of “walk-in” customers who came to pick up merchandise from the office.

We were shipping regularly right up to just a few days before Christmas.

Website:

This year we introduced two new pages on our website relating to fundraising. They were active only during December and were taken down on Jan 1st.

The CLA had a new “landing page”, so that whenever anyone went to www.candlewoodlakeauthority.org instead of landing on our regular home page, they were taken to a page with a graphic on it offering them the opportunity to learn about the challenges facing Candlewood and the CLA and how they can help, or they could click “skip” and go to our regular home page. It was the same at the top of the “last chance” e-appeal to give consistency to our fundraising look this year.

If they chose to “learn more”, they’d be taken to a page with our e-appeal on it and they could then read everything in the e-appeal.

Both the landing page and the learn more page allowed people to click on a “donate now” button to go directly to our online donation system.

Facebook Fundraising:

This year we also posted our “last chance” e-appeal on Facebook in an attempt to reach our nearly 2,500 Facebook followers and give them an opportunity to donate as well. There they were also given a link back our site so that they could donate online.

Lists, lists, lists:

With donations coming in, it’s a busy time for us to update our records as well. As the donations come in we get many people who include their email addresses on the form for us because they want to be on our mailing list. We take their information and check it in the system to see if they’re already in there or if they need to have a profile created. While many of them are already in there, we do get a good amount of names and addresses which we do add to our system.

Additionally, we do receive a number of mailing address corrections from the mailed appeal, which we also correct in our mailing list.

Holiday Posts:

We also designed and sent out a Happy Holidays email and Facebook post, in addition to one wishing everyone a Happy New Year.

