

2017 PLPA Annual Meeting

July 29, 2017

Deerfield Town Hall

Deerfield, NH



Thanks to May Erwin for another great 4th of July Boat Parade!

Meeting Agenda



- **PLPA Business Meeting (9am to 10am)**
 - Approval of 2016 Annual Meeting Minutes
 - Election of Officers
 - Treasurers Report
 - Gulf Road Kiosk
 - Mooring Field Report
 - Watershed Restoration Plan Update
 - PLPA Programs and Projects

- **Informational Sessions for Property Owners (10am to 11am)**
 - ***How you can have a positive impact on the future of Pleasant Lake***
 - Septic System Improvements – "How Septic Systems Work and WHY". Larry Maznek of Maznek Septic Services
 - "Soak Up the Rain New Hampshire" – 10 Do-It-Yourself Practices Barbara McMillan and Lisa Loosigian from the New Hampshire Department of Environmental Services

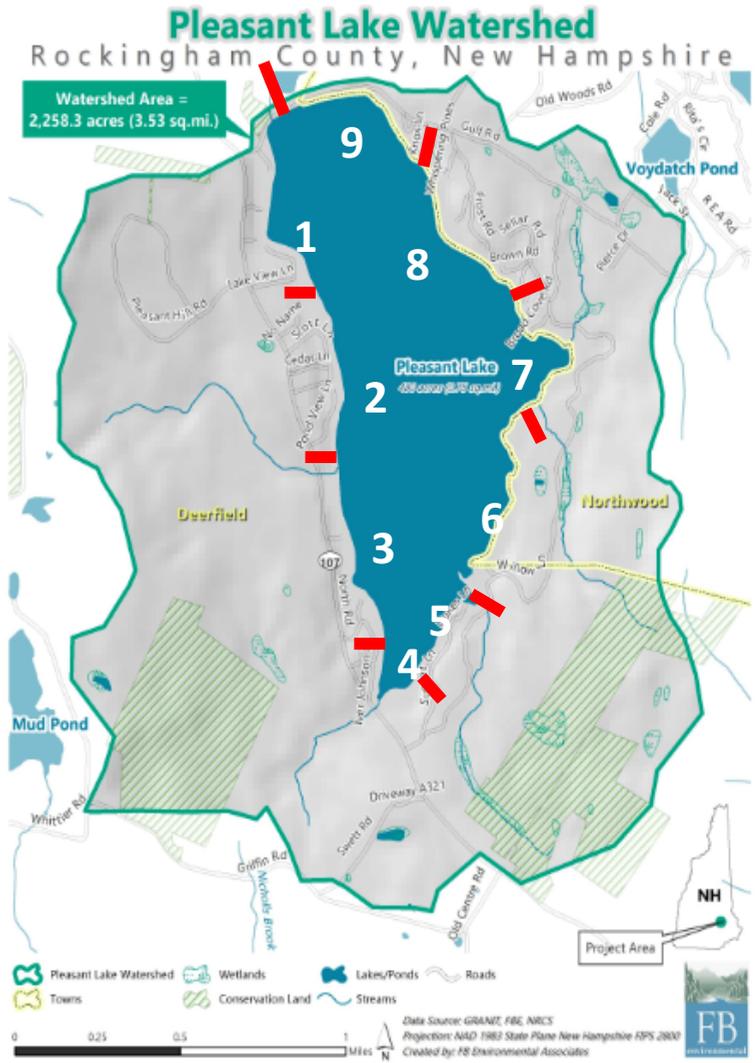
Election of Officers July 29 2017



PLPA District and Board Nominations – (elected positions)

- Chairman – Tom Brennan
- President - John Duffy
- 1st VP – Presten Thorsen
- 2nd VP – Doug Chamberlin
- Recording Secretary - Charon Pinard
- Corresponding Secretary - Carol Smiglin
- Treasurer - Andy Hotaling

- Dam District (1) - Mike Beaudoin
- Veasey District (2) – Tere Bowen-Irish
- West District (3) - Toni Duffy
- South Cove District (4) - Krist Nelson
- Loon Cove District (5) – Jen Freitas
- Pout Point District (6) - Sue Higgins
- Broad Cove District (7) - Roger Shaw
- Ledges District (8) - Janice Poltak
- North District (9) - Knox Turner



Treasurers Report



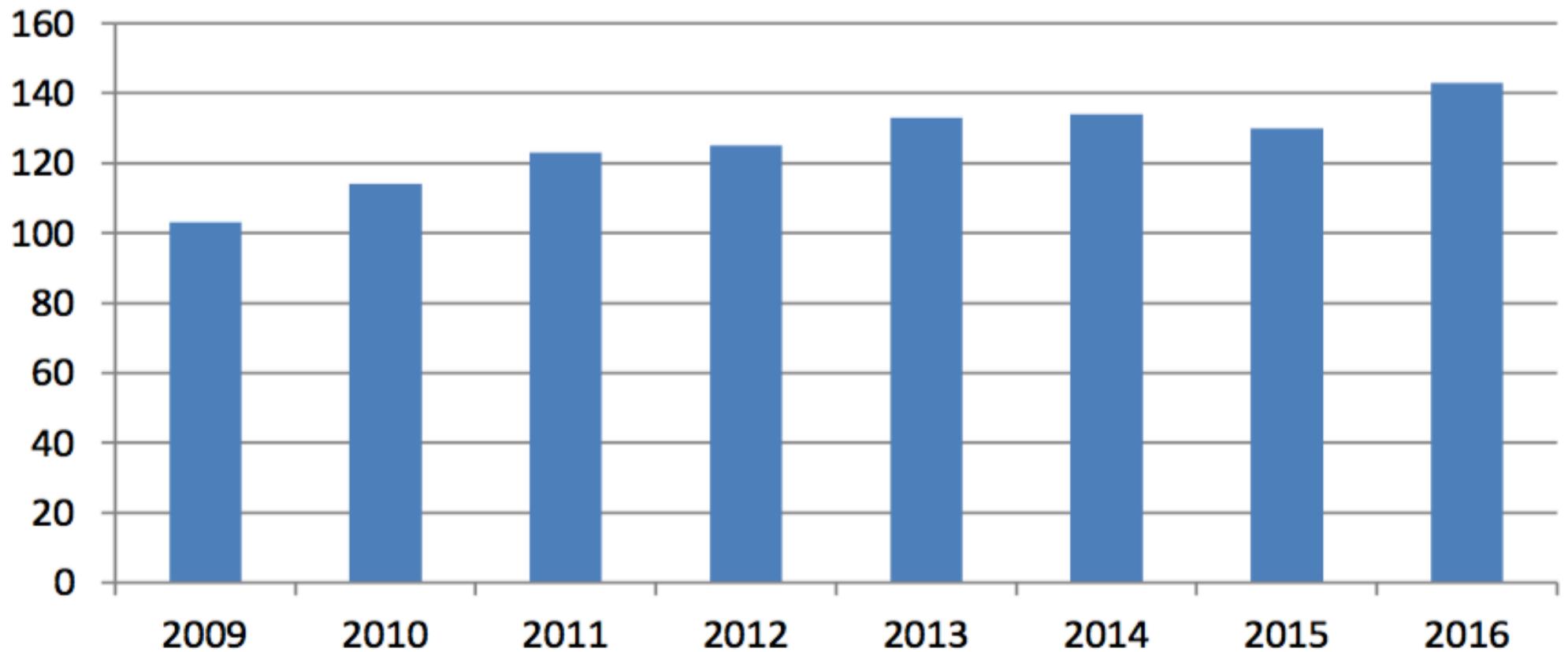
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Watershed Restoration Consulting Team ▶

Number of Members



Treasurers Report



12/31 YTD Income & Expense Summary

Income	2016	2015	2014
Memberships	\$ 3,555	\$ 3,250	\$ 3,350
General Fund	\$ 3,105	\$ 1,964	\$ 2,310
Lake Host Fund	\$ 2,585	\$ 2,115	\$ 2,540
Ponderings	\$ 500	\$ 750	\$ 425
Interest Income	\$ 34	\$ 31	\$ 62
Other Revenues (including sweatshirts)	\$ 41	\$ 2,335	\$ 2,080
Total Income	\$ 9,820	\$ 10,445	\$ 10,767

Expense	2016	2015	2014
Annual Meeting	\$ 50	\$ 125	\$ 56
Insurance	\$ 1,732	\$ 956	\$ 956
Lake Host Program	\$ 2,000	\$ 3,350	\$ 1,367
Memberships	\$ 600	\$ 600	\$ 600
Ponderings	\$ 535	\$ 450	\$ 593
VLAP testing	\$ 640	\$ 320	\$ 220
Web Page	\$ 119	\$ 119	\$ 119
NH Tax Filing		\$ 27	\$ -
Sweatshirts		\$ 225	\$ 1,922
Watershed Project	\$ 3,500	\$ 1,500	\$ -
Other expenses	\$ 409	\$ 428	\$ 141
Total Expense	\$ 9,585	\$ 8,100	\$ 5,974
Net Increase	\$ 235	\$ 2,345	\$ 4,793

Account Balances 12/31/2016 vs. 12/31/2015

Account	12/31/2016	12/31/2015	Change
General Fund checking	\$ 61,879	\$ 61,385	\$ 494
Grant Fund checking	\$ -	\$ 260	\$ (260)
Lake Host Fund	\$ 1,912	\$ 1,912	\$ -
Memorial Fund	\$ 3,572	\$ 3,571	\$ 1
	\$ 67,363	\$ 67,128	\$ 235

Account Balances 12/31/2016 Journalled

Account	12/31/2016	Journalled	12/31/2016 Net
General Fund checking	\$ 61,879	\$ (2,950)	\$ 58,929
Lake Host Fund	\$ 1,912	\$ 2,125	\$ 4,037
Memorial Fund	\$ 3,572	\$ 825	\$ 4,397
	\$ 67,363	\$ -	\$ 67,363



Income Items:

- PLPA membership has increased from 103 in 2009 to 143 in 2016. We are on pace to meet that number in 2017
- 2016 Income is down from previous years when there was an ongoing sweatshirt fund raiser and an \$1100 pollution fine that was directed to us by the state
- 2017 income will include \$2500 from each of the towns of Deerfield and Northwood to help fund the lake host program for greater coverage at the ramp. These funds will be expended to provide more paid lake host coverage.
- 2017 will also include \$90,000 from the Watershed Assistance Grant which will be fully expended on the Gulf Road improvement project

Expense Items:

- Insurance costs in both 2016 and 2017 are higher than normal because of a requirement to carry general liability insurance in connection with the grant for the reconstruction and improved drainage on Gulf Road
- 2017 lake hosting costs will increase by \$5000 as we spend the dollars received from the towns
- 2017 will include the \$90,000 outlay of funds for the Gulf Road project.
- Our grant to help with VLAP water testing was fully expended in 2016-future water testing costs will be paid out of the general fund
- The required matching funds of \$5000 towards the Watershed Restoration Project were spent in 2015 and 2016

Reminders Affinity Programs:

Amazon Smile Program:

If you shop at Amazon sign up through smile.amazon.com to direct .5% of your qualifying purchases to the Pleasant Lake Preservation Association Inc. (You need to specify the entire name to select PLPA)

TD bank:

PLPA receives contributions from TD bank for newly associated checking accounts and ongoing savings or CD balances. Simply notify a bank representative that you would like to be associated with the PLPA.

Thank you for your support.

Gulf Road – Informational Kiosk

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Gulf Road Informational Kiosk

- Created by Tyler Reese, Scout Troop 138, Eagle Scout Project
- The kiosk will display information on invasive species and how to prevent their transmission into Pleasant Lake, information on the Lake Host program and any other general PLPA information.



Thanks from Tyler



- Gary Anderson for all of his time and expertise in post and beam construction
- Krist Nelson for the use of his lift to place the roof frame quickly into place
- Richard Pitman and Center Hill Barns for helping procure all of the necessary roofing materials
- Mike Stacy and Granite State Glass in Concord for generously donating the two Lexan panels
- Barbara Cook for drawing up architectural plans for the kiosk
- Scouts and leaders from Troop 138 for helping to build the kiosk
- Craig Nichols for hand-milling the wooden beams that were used in the roof frame
- Ann Scholz and John Duffy for their continued support and guidance

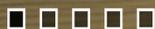
All of these people have helped out immensely and this project wouldn't be possible without them

Mooring Field Report

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The top 10 things to know about mooring permits



- The decision by the Commissioner of the Department of Public Safety is not in effect until October 2017.
- This summer the mooring field at the boat launch will remain in existence. We all need to be aware of the safety factors that initiated our original petition and report any incidences to The Department of Public Safety, Deerfield Police or other authorities.
- A permit for a mooring in front of a resident's home is based on an application and the state's determination as to the need for a mooring. Once applications are accepted a decal will be issued that must be displayed on the mooring.
- The initial cost is 125.00 for the first year and 25.00 thereafter (costs are different for a group mooring permit).
- Applications for permits will not be accepted until after the first of October of this year. Residents are advised to go to www.nh.gov/safety/divisions/nhsp/fob/marine-patrol/moorings/faq.html which will help define more detailed information as it may apply to their own property. The average time to acquire a permit is 2-3 weeks. Group applications usually are 2-3 months.
- The state is willing to work with residents who may have group property ownership and share frontage.
- Existing moorings are not grandfathered and mooring permits are not transferrable.
- Moorings are not granted for deeded beach rights or rights of way.
- The Marine Patrol Unit can offer applications for permits or residents can call 6032676453 or apply online.
- Finally if you have any questions, contact your District Director or Tere Bowen-Irish 603-512-3399 or Knox Turner 603 608 6761

PLEASANT LAKE WATERSHED RESTORATION PLAN

PLAN UPDATE (Summary)
PLPA 2017 Annual Meeting

© tom brennan



Funding for this project was provided in part by a Watershed Assistance Grant from NHDES with CWA Section 604(b) funds from the U.S. EPA.

PLPA Watershed Restoration Plan Timeline



Apply for 604B Grant	June-14
Secure 604B Grant	Dec-14
Put out RFP for Environmental Engineering Firm	Feb-15
Select FB Environmental with SNHPC	Mar-15
Host project kick-off meeting	May-15
Prepare site specific project plan (SSPP)	May-15
Complete water quality analysis	Jul-15
Conduct watershed, shoreline, and septic surveys to identify sources	Aug-15
Model current and future in-lake phosphorus	Feb-16
Recommend conservation practices that achieve water quality goals	Feb-16
Calculate potential phosphorus reductions from recommendations	Feb-16
Hold stakeholder meeting to generate public input (PLPA Annual Meeting)	July-16
Establish water quality goals	Sep-16
Develop draft and final watershed restoration plan	Dec-16
Final Project Presentation SNHPC	Jan-17
Present to Deerfield Board of Selectmen and Committees	April-17
Present to Northwood Board of Selectmen and Committees	May-17

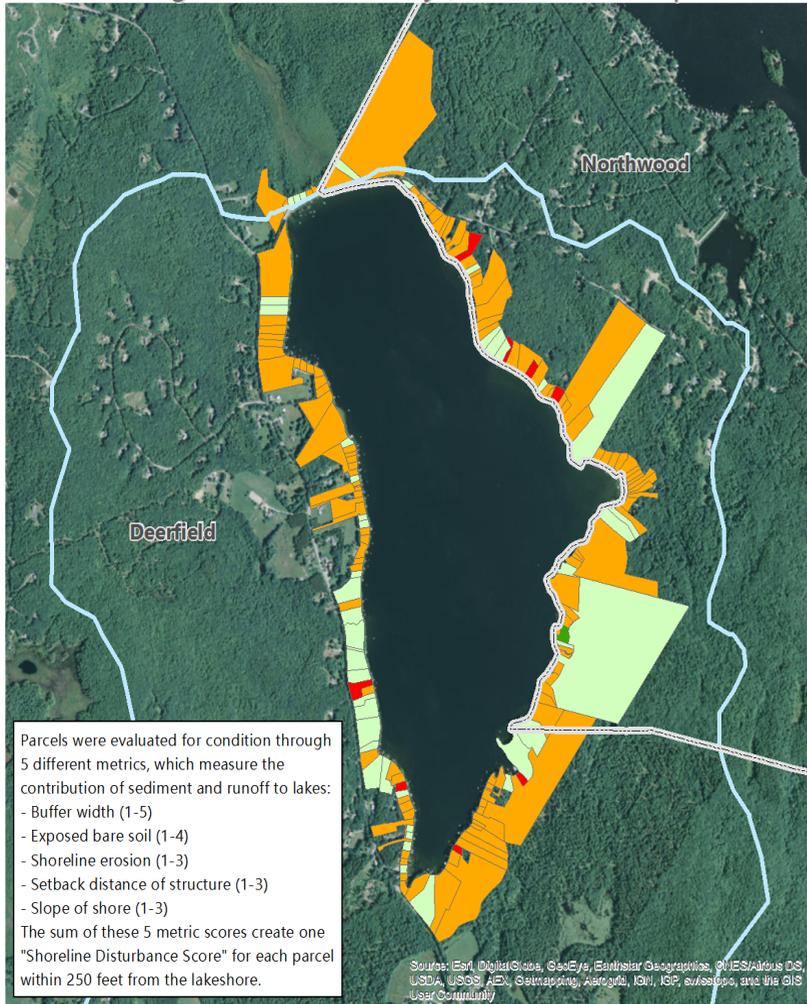
Conducted Watershed, Shoreline and Septic Surveys



Pleasant Lake
Preservation Association

Pleasant Lake Shoreline Survey Results

Rockingham County, New Hampshire

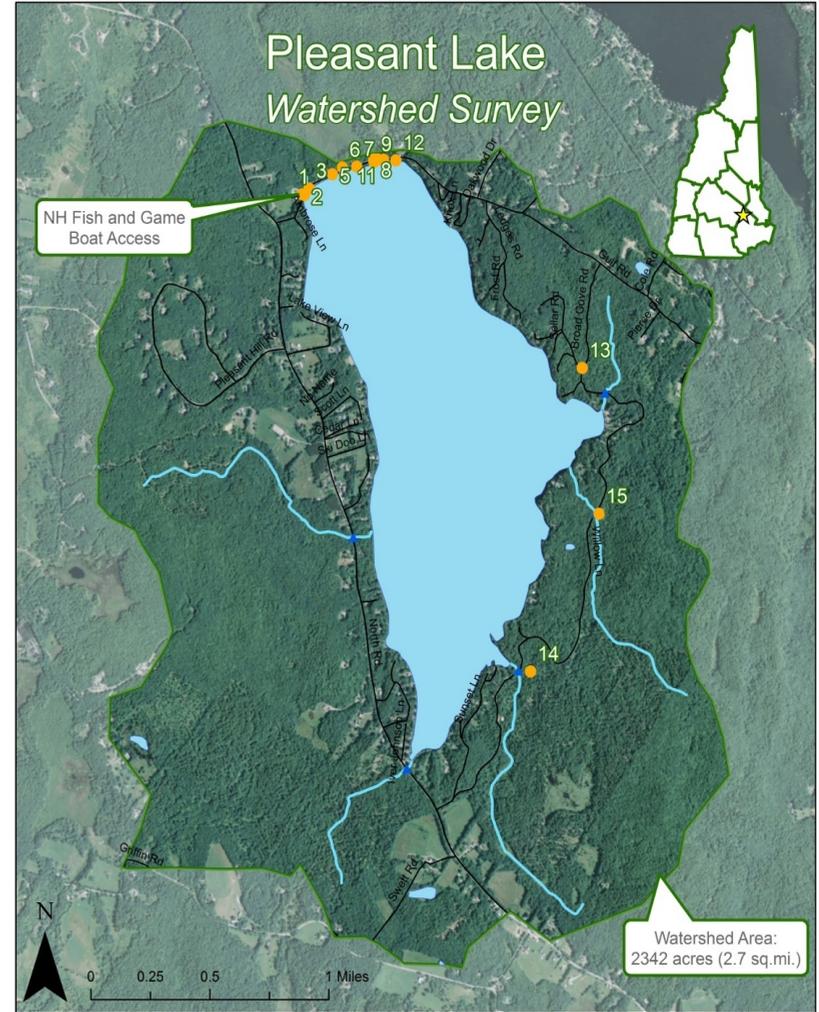


Shoreline Disturbance Score ■ 1-5 ■ 6-9 ■ 10-13 ■ 14-18

Pleasant Lake Watershed Towns



Data Source: GRANIT, FBE, ESRI
Projection: NAD 1983 State Plane New Hampshire FIPS 2800
Created by: FB Environmental Associates, July 2016



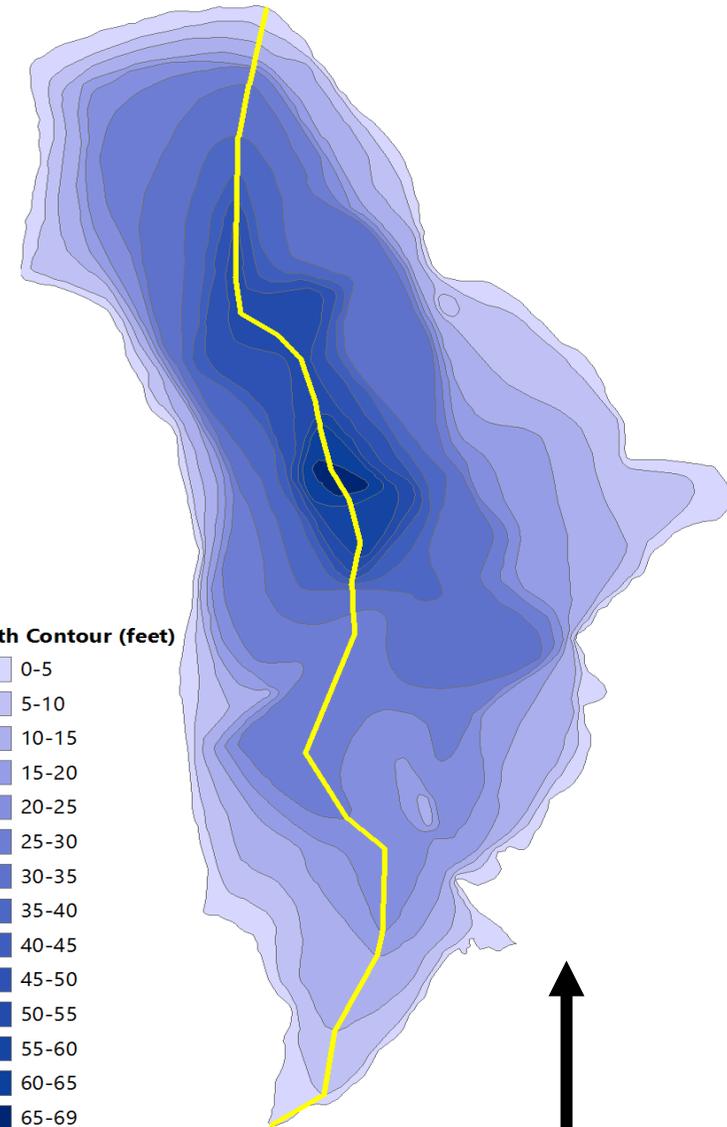
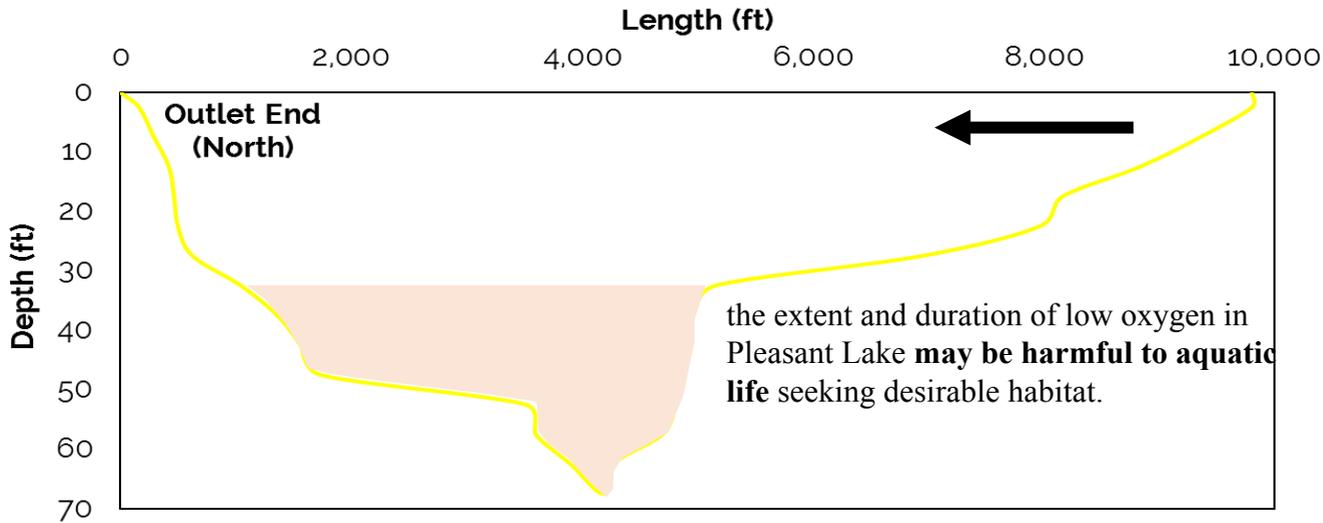
● Erosion Sites ■ Waterbodies
▲ Stream Crossings Streams
 Roads ■ Watershed

Data Sources: UNH GRANIT, FBE, ESRI
USGS National Elevation Dataset
Projection: NAD 1983 State Plane
Created By: FB Environmental, 2015



WATER QUALITY SUMMARY

OVERALL QUALITY IS EXCELLENT...BUT



PROBLEM: LOW OXYGEN

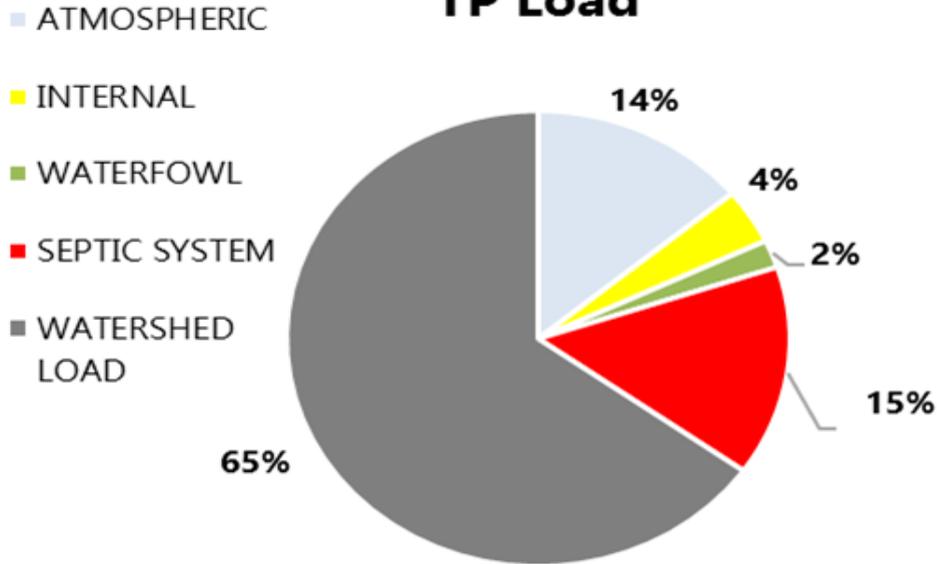
Pleasant Lake is impaired for aquatic life use based on low dissolved oxygen concentrations in bottom waters.



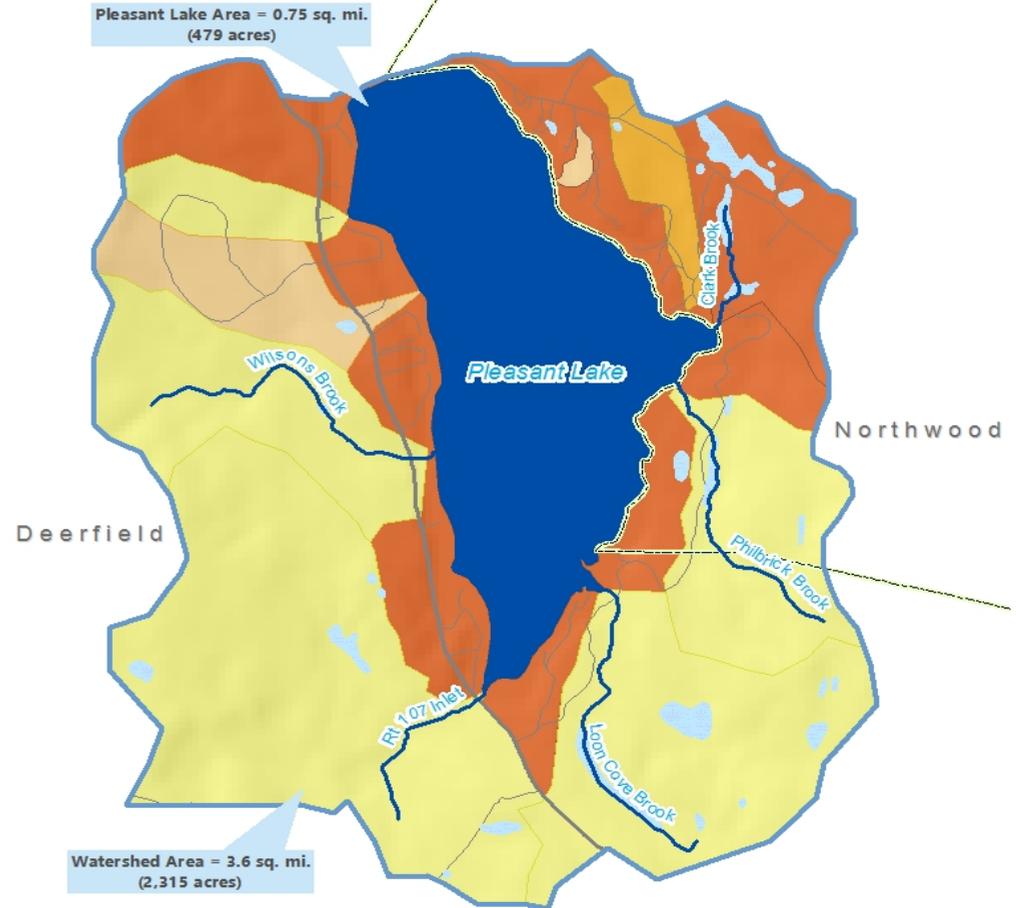
LAND USE MODEL RESULTS



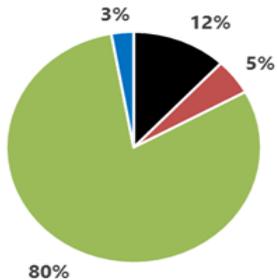
Pleasant Lake Watershed TP Load



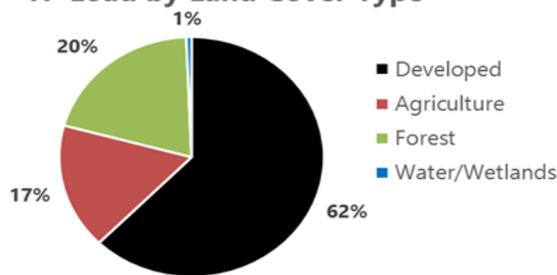
Total Phosphorus Load by Sub-Basin Pleasant Lake



Watershed Land Cover Area



TP Load by Land Cover Type



Data Source: NH GRANIT, FBE
 Projection: NAD 1983
 NH State Plane
 FIPS 2800 ft
 FBE - April 2016



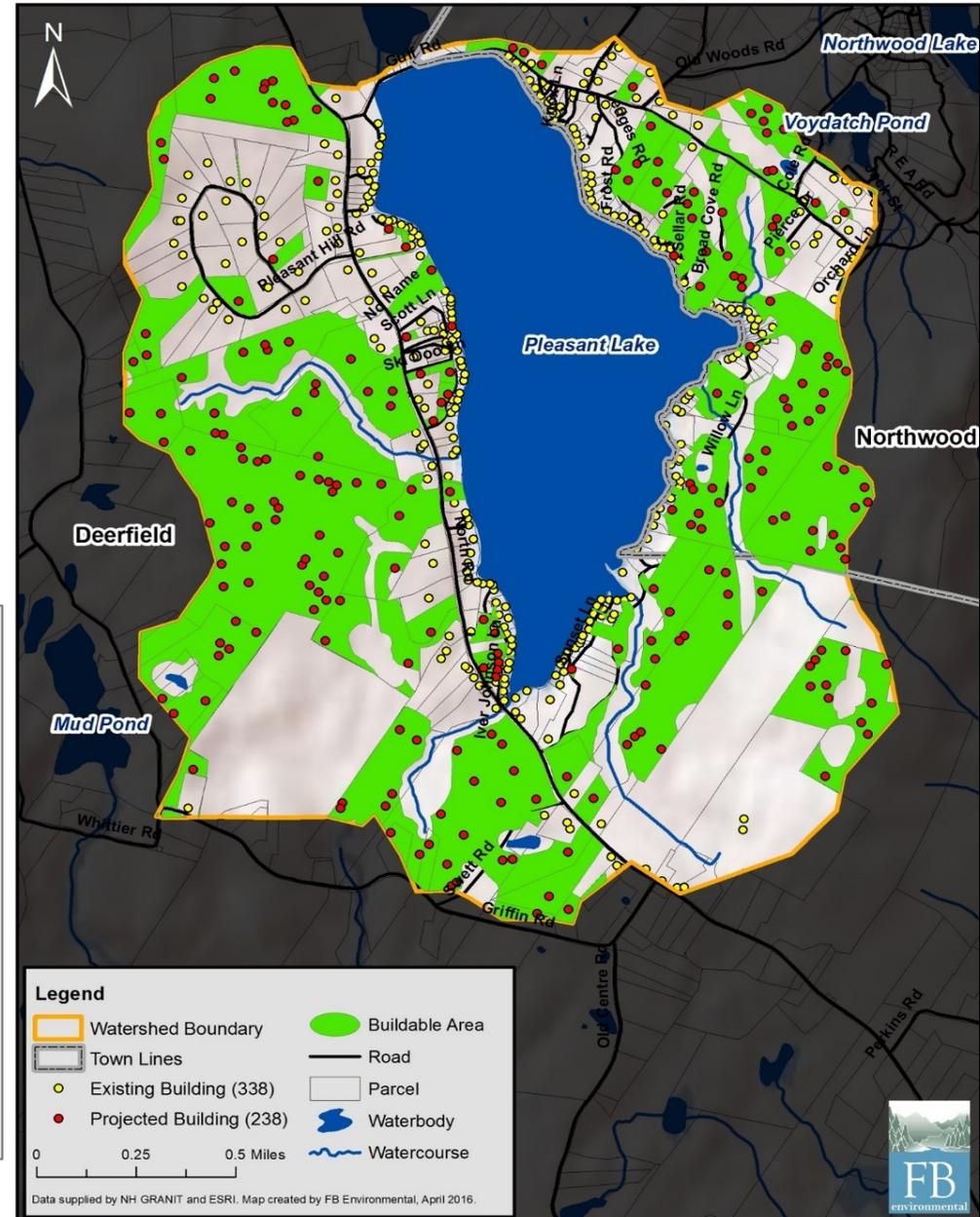
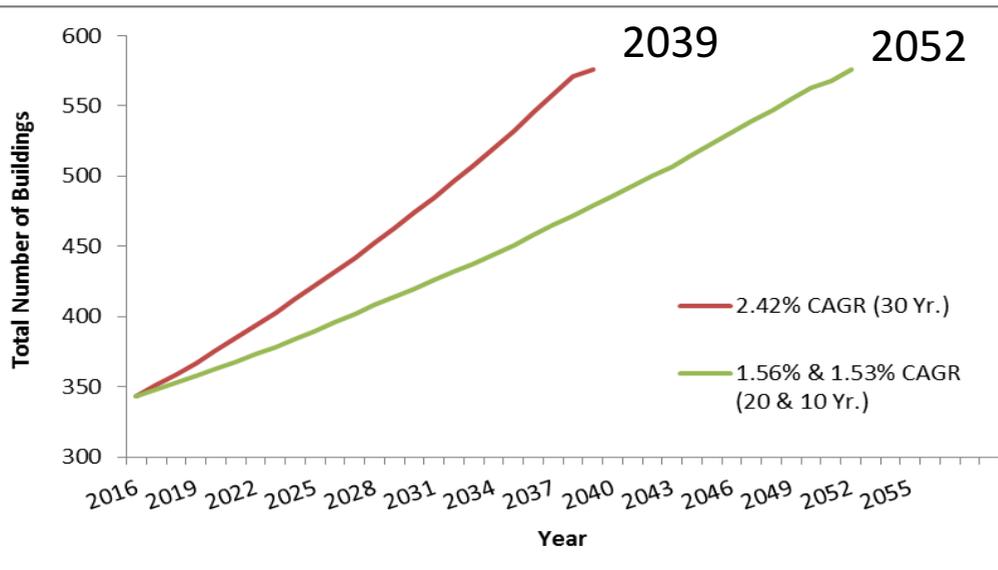
BUILDOUT ANALYSIS



CommunityViz

(Build-Out Wizard & Timescope Tool)

- Zoning
- Existing Buildings
- Growth Rates
- Development Constraints
- Stakeholder Input
- Assumptions



ACTION PLAN

July 23, 2016 Community Forum Deerfield Town Hall

- FBE Presentation to ~125 attendees
- Identifies priority actions for achieving water quality goal
- Establishes objectives, schedule of implementation, and costs
- Workgroups to generate feedback and discuss next steps.



WATER QUALITY GOAL

To improve the water quality of Pleasant Lake and prevent a future decline as a direct result of storm water runoff and anticipated new development.

Reduce current phosphorus loading by 10% and prevent future phosphorus loading increases over the next 10 years.

**Water Quality
Monitoring**

**Watershed &
Shoreline BMPs**

**Municipal
Planning**

Septic Systems

Roads

**Land
Conservation &
Management**

Action Plan SHORT TERM RECOMMENDATIONS

Water Quality Monitoring

- Improve current Invasive species management program
- Increase the frequency of the lake water quality monitoring program
- Take a sediment core of the deep spot to assess organic matter content

Watershed & Shoreline BMPs

- Site along Gulf Road near the NHFGD parking lot are currently being addressed by a Section 319 grant
- Work with residents to educate and implement shoreline residential BMPs
- Find and apply for funding that supports all aspects of the Action Plan

Municipal Planning

- Present to Board of Selectmen and Planning Board meetings to foster a relationship between local government and watershed stakeholders for the coordination of plan implementation.
- Encourage towns to consider making changes to ordinances to protect water quality.

Septic Systems

- Distribute educational information and lists of septic service providers
- Investigate grants and low-interest loans for upgrades
- Develop septic system database (expand from 2015 septic survey)

Roads

- Work with ad-hoc private “road associations” to begin a discussion about four season road maintenance and management
- Coordinate with NHDOT to discuss Rt. 107 culvert problems (before road surfacing in 2017)

Land Conservation & Management

- Communicate with local conservation groups (Bear-Paw Regional Greenways, Northwood Area Land Management Collaborative) to inform and collaborate on funding options.

Watershed Restoration Plan

The Pleasant Lake Watershed Restoration Plan

A Watershed Restoration Plan has been completed for Pleasant Lake to ensure future generations can enjoy what we do today. The concept is to understand stormwater runoff in the watershed and its impact on the lake, and to set goals and prioritize actions that will allow for future use of the lake while protecting the water quality. The project included a significant education and outreach component to engage residents and decision makers in watershed protection dialogue and activity. Funding for the project was provided by NH Department of Environmental Services but will not involve further regulatory requirements from our State government. This is a project for and by local residents, municipalities and business entities.

FB Environmental was the chosen consultant that completed Pleasant Lake's Watershed Restoration Plan:

- **Pleasant Lake Watershed Restoration Plan**
- **Pleasant Lake: Watershed Restoration Plan Appendices**

Additional project deliverables can be found below:

- **Lake Loading Response Model (LLRM) Report**
- **Water Quality Goal Memo**
- **Shoreline Survey Memo**
- **Build Out Analysis**
- **Water Quality Analysis**
- **Watershed Assessment Memo**
- **Septic System Brochure**

FB Environmental spoke at PLPA's 2015 & 2016 Annual Meetings:

- **FB Environmental Presentation 23 July 2016**
- **FB Environmental Overview 27 June 2015**

PLPA Programs and Projects

- Lake Host Program
- VLAP Program
- Weed Watchers Program
- Gulf Road Project
- Shoreline Improvement Project

Lake Host Report

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Lake Host Program



Category	2017	2016	Difference
Volunteer Hours	402	430	(-28)
Paid Hours	417	258	+159
Boat Count	1824	1471	+353
Grant Money	\$2,700	\$2,550	+ \$150
Warrant Money	\$5,000	\$0	+\$5,000

Each year, our Grant money is based on the number of boats we inspect. That's why our volunteer program is so important, because the more volunteers we have, the more boats we can inspect.

We also were granted through warrant articles by the Towns of Deerfield and Northwood to receive an additional \$2,500 from each town to increase the number of Paid Lake Hosts in order for us to have more coverage of the boat launch.

Lake Host Program



The number of invasive species threatening NH Lakes has increased. We are no longer just concerned about invasive weeds. We are now also educating boaters on the other species threatening our water bodies, including the following species:

- The Asian Clam, which is already in southern NH and the Merrimack River
- The Zebra Mussel, which is currently in all of the states surrounding NH with the exception of Maine.
- The Chinese Mystery Snail, which can be found in many of NH Lakes, including Pleasant Lake. Thanks to the residents of Pleasant Lake collecting them and tossing them into the woods, we have been able to lessen the population. Snapping turtles also enjoy eating them.
- The Spiney Water Flea, which has been found in NY and VT.
- The Water Chestnut is in the Nashua River. The seeds are viable for about 7 years.

Lake Host Program



This year we have 6 paid lake hosts and 23 volunteers as follows:

Paid Hosts:

Tara Bush

Danielle Landry

Brooke Laskowsky

Mary Lee

Russel Robillard

Alex Ulin

Volunteers:

Jeanne Blais (8 yrs.)

Bob & Jackie Blanchard (15+ yrs.)

Linda & Tom Brennan (7 yrs.)

Lisa Brochu (1 Yr.)

Doug Chamberlin (15 yrs.)

Stan Clark (15 yrs.)

Jan Cote (8 yrs.)

Joe Freitas (6 yrs.)

Al Gaudet (4 yrs.)

Claude Levesque (11 yrs.)

Holly & Glenn Martin (8 yrs.)

Charles & Loretta Monteverdi (6 yrs.)

Andy Partridge (15 yrs.)

Charon Pinard (7 yrs.)

Janice Poltak (6 yrs.)

Steve Ragon (2 yrs.)

Carol Smiglin (7 yrs.)

Andy & Harry Hotaling (3yrs)

Please join me in thanking these energetic paid Lake Hosts and our incredible volunteers for their efforts in protecting the quality of the lake and, ultimately, your investment

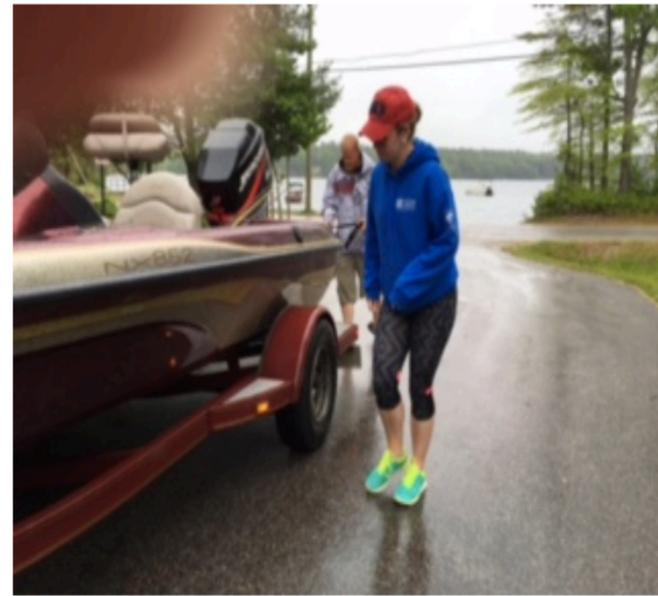
Lake Host Program



Ideally we would love to be able to expand our coverage even further by covering the boat launch full time:

- Monday through Sunday from 6 am – 6 pm.
- Generally the shifts are 2 hours weekly,
- if you can cover even 1 hour either weekly or monthly, every little bit will help.

If you are interested in volunteering we have sign up sheets available at one of the tables or please contact Holly Martin at hollyglennmartin@icloud.com

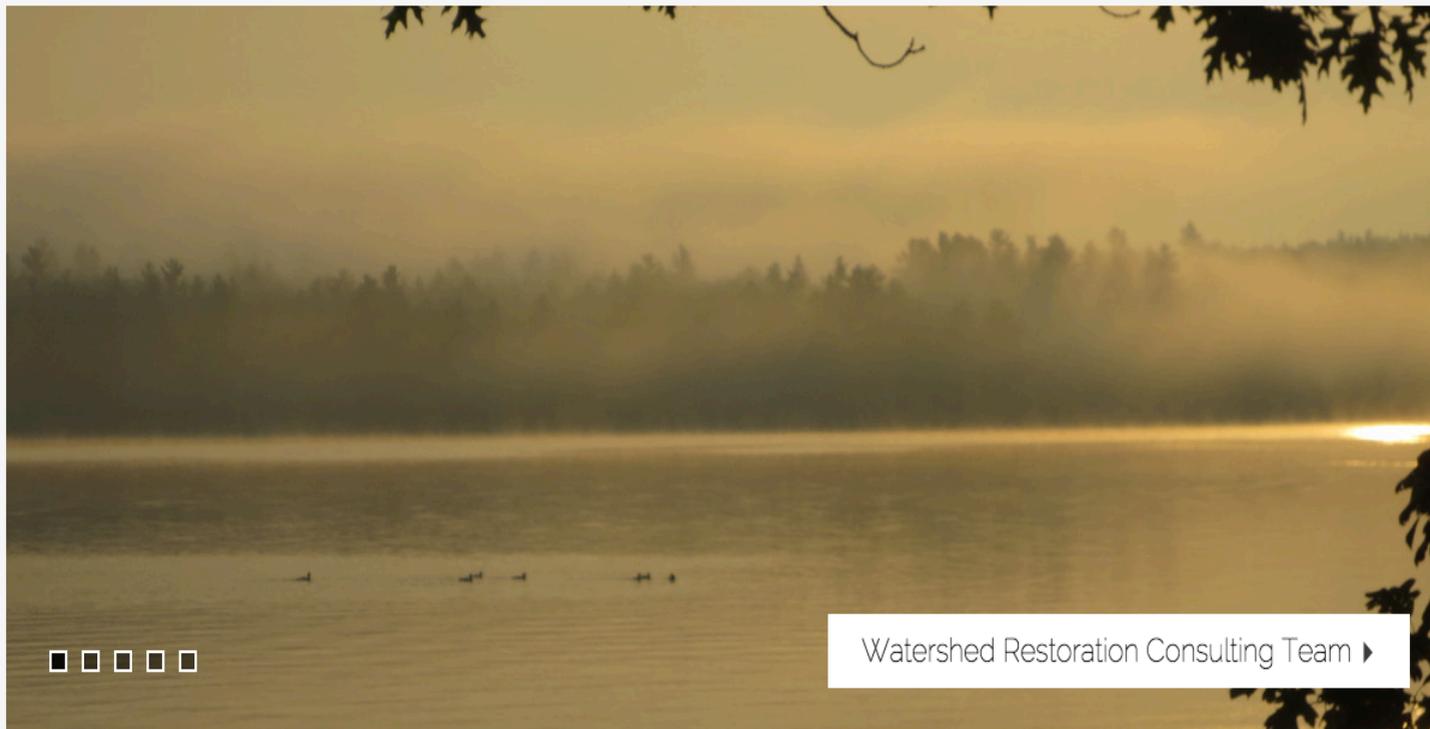


Volunteer Lake Assessment Program

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VLAP Team

Volunteer Lake Assessment Program

- ✓ Capture Lake Chemistry - Now 4 to 6 Times / year.
- ✓ Chuck Reese & Jim Creighton - 10 Years Experience.

Dissolved Oxygen Monitors

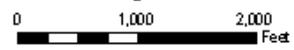
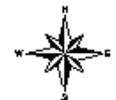
- ✓ Capture DO Data Monthly (If safe to do so).
- ✓ Beadoins, Brennans, Joe Farrelly, Hotalings, & Smiglins.



PLEASANT LAKE
 TOWN OF DEERFIELD
 VOLUNTEER LAKE ASSESSMENT PROGRAM

● WLAP Station

STATION ID	STATION NAME
PLEDEE 107	ROUTE 107 INLET
PLEDEE A	ATHERTON BROOK
PLEDEE AMB	AMBROSE STREAM
PLEDEE BB	BRANCH BROOK
PLEDEE C	CLARKS BROOK
PLEDEE D	DEEP SP OT
PLEDEE F	FARRELLY BROOK
PLEDEE L	LOON COVE
PLEDEE O	DAM OUTLET
PLEDEE OB	DAM OUTLET BEACH
PLEDEE P	PHILBRICK BROOK
PLEDEE UF	UPPER FARRELLY
PLEDEE V	VEASEY BROOK
PLEDEE VB	VEASEY BEACH
PLEDEE W	WILSONS BROOK



New Hampshire State Plane Feet Projection
 North American Datum 1983



New Hampshire Department of Environmental Services
 Watershed Management Bureau
 29 Basin Drive
 P.O. Box 93
 Concord, NH 03302-0093

The coverage presented is under constant revision as new site facilities are added. They may not contain all of the potential or existing site or facilities. NHDES is not responsible for the use or interpretation of this information.

Not intended for legal purposes.

Map Produced: 11/01/2011 3:47:54 PM

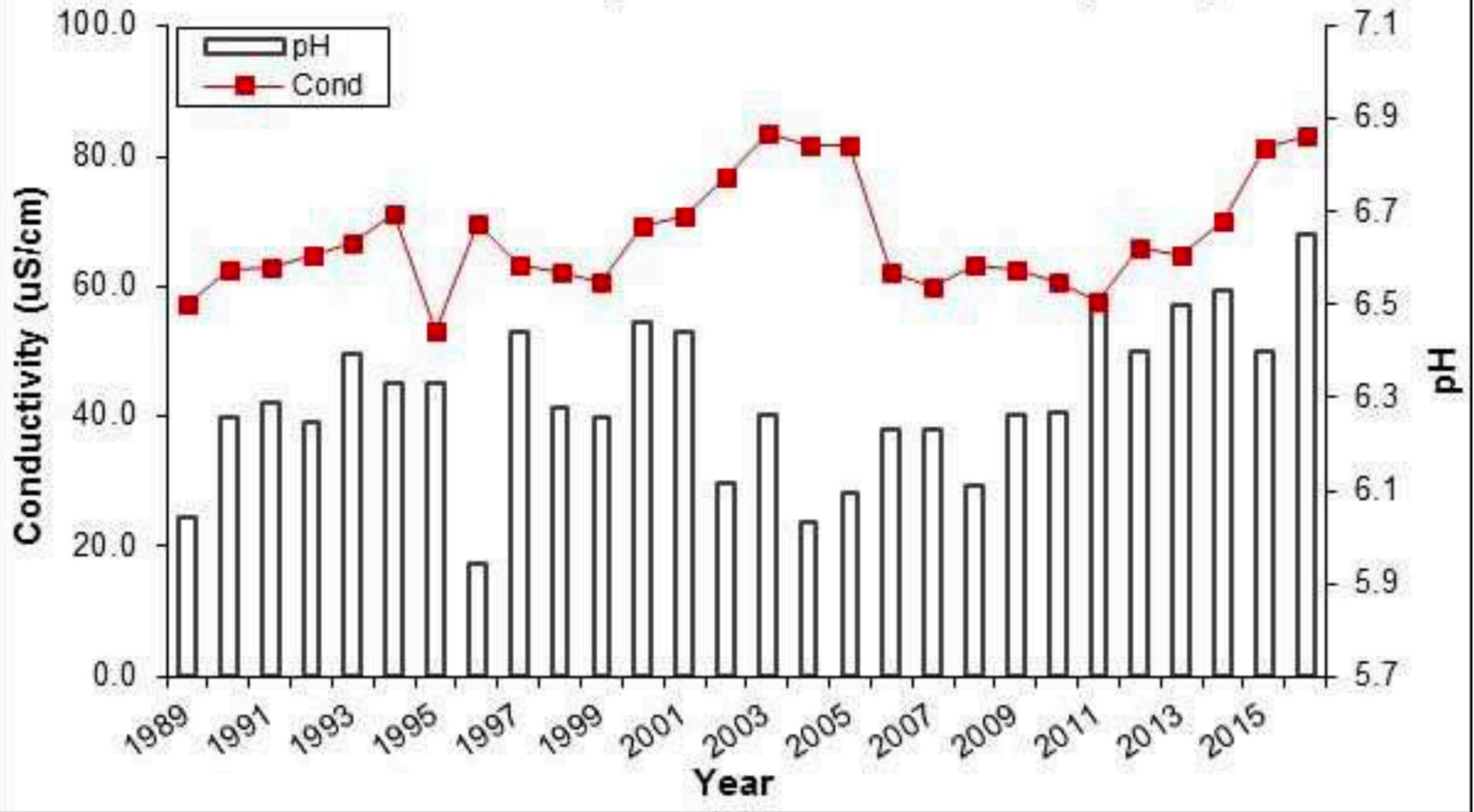


Pleasant Lake Report Card - 2016



Designated Use	Parameter	Category
Aquatic Life	Phosphorus (Total)	Good
	pH	Bad
	Oxygen, Dissolved	Bad
	Dissolved oxygen satura	Slightly Bad
	Chlorophyll-a	Good
Primary Contact Recreation	Escherichia coli	Very Good
	Chlorophyll-a	Very Good

Historical Trend Epilimnetic Conductivity and pH



lake
tion

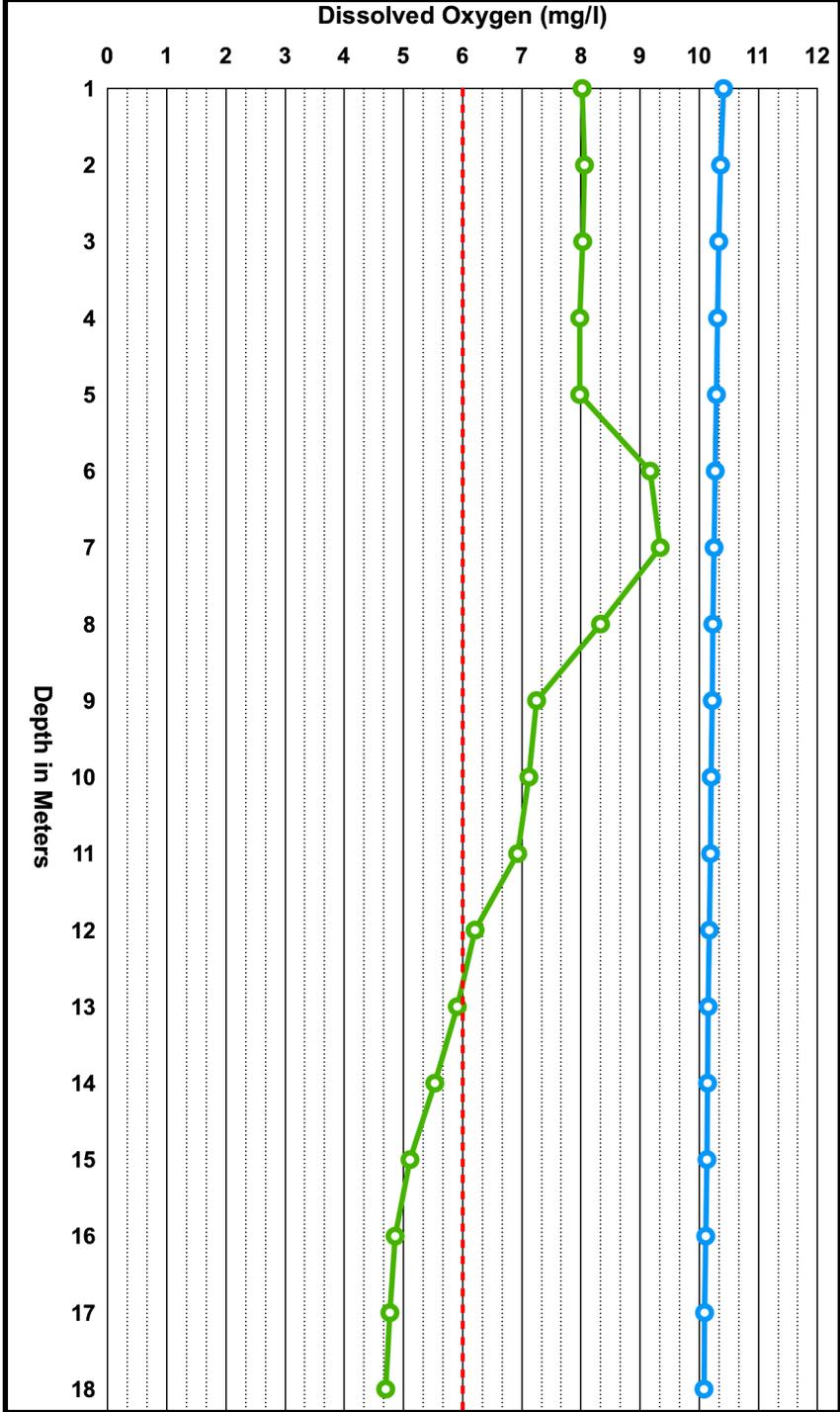
Trend - Improving? Why?

NH Median Value 6.6 - Pleasant Lake measure 6.65 in 2016

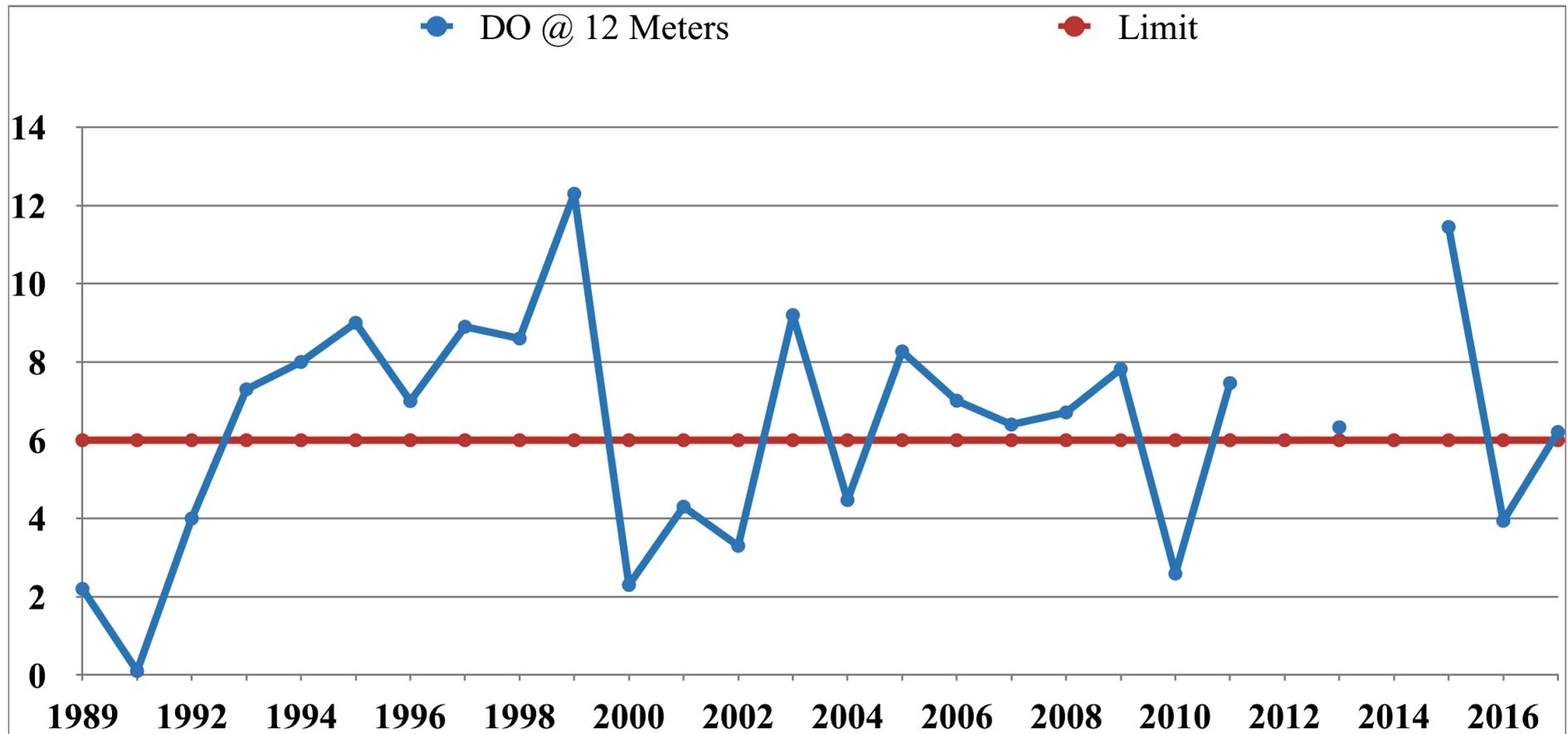
Atherton Brook 4.60 / Ambrose Stream 4.97 / Farrelly Brook 5.78

Dissolved Oxygen mg/l

- ✓ Blue Line - Nov 2016
- ✓ Green Line - Jul 2017
- ✓ Red Line - Limit: Under 6.0 fish can not survive.
- ✓ July data hit 6.0 at ~ 12 meters depth (40 ft).
- ✓ Historical data shows under 6.0 mg/l at just 10 m (32 ft).
- ✓ Snapshot (1 month / year) information available since 1989.



Disolved Oxygen @ 12 Meters vs Time:



The plot is a mixture of June, July & August data.

This makes reaching any conclusion risky

Pleasant Lake Report Card - 2016



Designated Use	Parameter	Category
Aquatic Life	Phosphorus (Total)	Good
	pH	Bad
	Oxygen, Dissolved	Bad
	Dissolved oxygen satura	Slightly Bad
	Chlorophyll-a	Good
Primary Contact Recreation	Escherichia coli	Very Good
	Chlorophyll-a	Very Good

Want to Know More

- ✓ More detail on our web sight
- ✓ Get Involved

Gulf Road Project



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Implementation Phase I: Gulf Road Best Management Practices



- Awarded a \$90,000 Watershed Assistance Grant in October 2016
- Required a 40% match of cash or in-kind services
 - What's been done?
 - Topographic Survey
 - Design Layout
 - Drainage Study
 - Numerous board meetings
 - Environmental Permitting
 - Tree clearing
 - What's coming up?
 - Pavement milling
 - Formation of new vertical profile
 - Installation of drainage structures
 - Pavement placement
 - Landscaping
 - What is needed?
 - Patience
 - Respect the construction workers
 - More patience



The edges of Gulf Road are eroding from the high velocity flow of stormwater.



NHF&G Boat Access parking is a primary contributor of sediment, nitrogen, and phosphorus loading

Shoreline Improvement Project

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Shoreline Improvement Project



Goal: Establish a baseline on best practices and associated costs for creating buffer zones and rain gardens, covering bare soil and preventing shoreline erosion.

- Announcement in June Ponderings and follow up email blast
- Selected 6 volunteers to work on a “Pilot” Project with a goal of creating a model for ongoing improvements of the shorefront by property owners.
- The PLPA and has engaged an environmental engineer who will:
 - 1. Perform site inspections (completed July 22nd)
 - 2. Prepare recommendations for each property and
 - 3. Identify sources for materials at or near cost (early August)
- Once that work is completed the property owner will be responsible for:
 - Purchasing the required materials and
 - Providing the labor & equipment necessary to complete the project.

Volunteers who are selected for this project have agreed to complete some or all of the recommended work by summer of 2018 and allow us to share the improvements they’ve made with other lake residents.

Opportunities to Participate



TASK	DESCRIPTION
Communications and Education	Create and/or coordinate informational and educational outreach to all watershed stakeholders.
Lake Hosts	Support the Lake Host Program by volunteering to spend some time during the week at the boat launch on Gulf road. Any amount of time you could spend, even just 30 minutes or an hour a week would be welcome.
Weed Watchers	Spend some time during the summer season periodically inspecting a specific section of our shoreline looking for invasive species. Training provided.
Water Quality Testing	Join a small team helping with periodic water sample collection. Training provided.
Municipal Planning and Land Conservation	Work with the towns of Deerfield and Northwood to collaborate on watershed related issues including; Conservation, Ordinances, Enforcement of land management practices
Watershed Restoration Projects Septic Improvement	The watershed restoration plan has identified critical factors that can improve the quality of our lake and surrounding watershed. The task remains to find the resources to make the necessary improvements including shoreline improvements and road and culvert maintenance Develop educational program. Investigate grants and low-interest loans for upgrades. Develop septic system database (expand from 2015 septic survey)
Fundraising	The towns of Northwood and Deerfield helped fund the Lake Host Program on Pleasant Lake this year. We need someone to coordinate that effort again this year for the 2018 town vote.
Grant Response Team	Respond to opportunities for Grants that provide funding for Lake and Watershed related projects.

Informational Sessions for Property Owners to Follow



How you can have a positive impact on the future of Pleasant Lake

Septic System Improvements – "How Septic Systems Work and WHY". Larry Maznek of Maznek Septic Services

"Soak Up the Rain New Hampshire" – 10 Do-It-Yourself Practices Barbara McMillan and Lisa Loosigian from the New Hampshire Department of Environmental Services