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**Moving? Change of address?**  
Send your new contact information to  
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See you all next  
summer!

**Fun Facts...**

“Lake Carey’s story begins in 1874 when the narrow-gauge Montrose railroad began service to Lake Carey’s 262-acre glacial lake named Marcy’s Pond.

*Facts from “Lake Carey” part of  
Arcadia’s Images of America series  
by Dr. Walter Broughton*



**The Lake Carey Sportsman’s Club**

By Paul Brown

The Lake Carey Sportsman Club (LCSC) annual Hunter’s Safety course was conducted this past July with 38 students completing and passing the course sponsored by the PA Game Commission. We will again sponsor this required course for first time sportsmen next July, usually around the 2<sup>nd</sup> week in July. Mark your calendar as a reservation is required to attain a spot in the class and seating is limited and fills up quickly. Contact Paul Brown for info on this class.

The LCSC would like to thank all its neighbors that supported them through the chicken barbeque dinners held this August. This allows us to keep the doors open and sponsor such things as the Hunter’s Safety course and walleye stockings at Lake Carey as well as improvements to our property. Some future events in the workings are horse shoe tournaments, a chili cook off, and different dinners (i.e., spaghetti and meatballs, roast beef, etc.). So again thank you for your support and hope to see you all in the future.

**Association Endorses Resolution**

By The LCWA

On September 13, 2009, the LCWA endorsed the following resolution at its September meeting.

*The Lake Carey Welfare Association endorses implementing a septic management program at Lake Carey beginning immediately. We ask each resident to pump and maintain their septic systems every three years. Those who do so will become members of the “pumpers club” and will be acknowledged, if they so choose, in our LCWA newsletter.*

**Lake Carey Day—A Recipe for Success**

By Gene Skrynski

Take about 150 runners, 20 kayakers, 60 paddle boaters, 4 hours of boat tours, 400 poker run players, a chicken Bar-B-Q, a great band, and dozens of dedicated volunteers, add plenty of sun and friendly people and what you get is another unforgettable Lake Carey Day. Remember:

**LC Day is always on the last Saturday in July—for 2010, that will be the 31st.**

**Septic Wise**

By Deb Tierney

A new feature piece will be added to our newsletters moving forward titled *Septic Wise*. The purpose of this feature is to educate all of us on what we can do to maintain our septic systems so that they do not negatively impact “OUR” lake. We hope that you will take the time to learn and implement the items that we will be placing in this feature.

Many of the dish detergents on the market contain phosphates. When shopping, read the labels and chose a detergent that is “phosphorus free”. It is better for your septic system and our environment.

**Notes and Reminders**

◆ **The Boards**—the last of the boards was removed on 11/15..

◆ **Township Meetings**—

⇒ Lemon Township meetings are held the first Tuesday of each month at 7:00 PM at 2 Tague Rd, Tunkhannock.

⇒ Tunkhannock Township meetings are held the first Monday of the month at 7:00 PM at 438 SR 92 South, Tunkhannock.



The Lake Carey  
Welfare Association

A newsletter for the residents of Lake Carey



NOVEMBER 2009

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**A message from the President’s**

Dear Neighbors—

The summer has slipped by nearly unnoticed, and our nights are cool and our days are warm (when it’s not raining). We finally put together nearly an entire week without a drop of rain. We’ve also noticed a few cottages have been closed for the season.

Much work needs to be completed here at the lake. PA Department of Environmental Protection (PADEP) has concerns that the dam has inadequate spillway capacity which could impact downstream residents and property should there be a catastrophic failure. They have requested an engineering study be undertaken to upgrade the spillway capacity and to protect the dam from overtopping during a “Probable Maximum Flood (PMF) storm event”. The Association has authorized the expenditure of funds for this study and we will need to pursue funding when the time comes to make the repairs. These are costs that should not be born only by the Association but by all at the lake because it impacts absolutely everyone who lives and enjoys the recreation here.

Another issue is Act 537 which requires that the townships look at centralized, de-centralized, and on-lot waste treatment. A study is currently in progress and should be completed by October. The townships need to have the study completed by the end of the year in order to apply for low cost funding. Several meetings have been conducted concerning this and there are strong emotions on both sides of the issue. A lot of wonderful public discussions have been held and have resulted in lively debates and exchanges of ideas. Much more will be coming on this issue.

We are planning to put together a directory of all association members. This directory would be given to all members and will include their names, addresses (both summer and winter), a list of local points of interest, and available services. If any members do not wish to have their information included please contact us.

Until the sun shines longer and the air warms, we wish you well. Enjoy the remainder of the summer and prepare for winter activities. We invite you to dust off your skates when the water hardens and join us on the ice.

**Alan & Trisha Thatcher**

**Fall Back**

Don’t forget  
to turn your  
clocks back on  
November 1st

**What’s In a Name?**

By Walter Broughton

Lake Carey’s association of home owners and renters was chartered in 1938 as the Lake Carey Welfare Association (LCWA). About 25 years ago, the members decided to change the name to the Cottager’s Association or Cottages Association (LCCA)—no one is sure which. The checking account uses Cottages, but popular opinion favored Cottager’s.

There the matter stood until the PADEP awarded the Association a grant of \$308,000 to begin work on the restoration of the lake and its watershed. When PA’s Grant Center went looking for us in the state’s official records however, they could not find the LCCA. They did find the LCWA. So the grant was officially awarded to the LCWA.

In the meantime, the officers began searching for a letter from the IRS certifying the association’s charitable, non-profit status (Growing Greener Grants can only be disbursed to non-profit entities). That proved to be just as elusive as any record of a formal name change. A call to the IRS indicated that they had no record of either the LCCA or the LCWA. It became clear that the we would have to reapply (presuming it had ever before applied) for non-profit status.

*continued on page 2*

## Wastewater Issue's at Lake Carey

By Walter Broughton

**Editor's Note:** The following summary of the issues raised by a preliminary proposal to construct a central sewer system at Lake Carey was prepared by Walter Broughton and presented at an open meeting held on Saturday, September 5 at John and Elizabeth Tidball's cottage. I wish to thank Walter for permission to reprint his assessment and John and Elizabeth for graciously hosting the event at their home.

The PADEP has not mandated sewers for Lake Carey. The study now underway was commissioned by the Lemon and Tunkhannock township supervisors in the process of updating the townships' Act 537 Plans.

The waters of Lake Carey meet PA standards for recreational use. This is true of both the small and large lakes. Lake Carey is safe for boating, swimming, fishing, water skiing, and other such activities.

Lake Carey suffers from nutrient, not bacterial, pollution. Nutrient pollution occurs wherever farming, timbering, and residential use have occurred; only very remote lakes with little or no human activity remain pristine. Phosphorous and nitrogen are carried by stormwater and groundwater into the lake. They come from farming (animal wastes and fertilizers), inadequate septic systems, lawn fertilizers, and waterfowl, among other sources. Over time these nutrients settle into the lake's sediment from which they continue to be released. The result, here as elsewhere, is excessive levels of algae (including blue green algae which can become a health problem), a lack of oxygen at greater depths, and reduced water clarity.

Some proportion of the lake's existing on-lot systems—perhaps one fifth or more—are compromised by inappropriate soils and/or leach fields that are too close to the watertable. Conventional on-lot septic systems cannot be made to work in these instances.

The single largest source of phosphorous entering the lake—approximately 40%—is thought to come from failing septic systems. Central or other effective waste water systems will improve the lake's water quality and reduce the potential for well water contamination in the vicinity of a failed septic system.

Central wastewater systems do not eliminate nutrient pollution, as the residents of Lake Winola and Harveys Lake have learned. Without addressing the other nutrient sources at Lake Carey, the lake will continue to receive over 60% of the nutrient pollution it now experiences.

Central wastewater collection and treatment facilities have significant financial costs for tax payers and those who are served by the system. One current estimate projects \$8.3 million in design and construction costs, \$3 thousand in connection fees for individual residences and businesses, and nearly \$1 thousand in annual user fees.

Central wastewater systems have serious, potential hydrological, public safety, aesthetic and pollution costs. Central systems remove 100s of thousands of gallons a day from a lake's water table; this can have detrimental effects on the lake and on wells within its basin. Central wastewater systems, moreover, normally spur development. Development adds to congestion on roads and on the waters of the lake, and diminishes the natural beauty of the watershed. It also increases stormwater run-off as land is built upon and paved over, adding to the nutrient pollution sewers were intended to reduce.

This description of the issue's has been drawn from substantial research at this and other lakes, including the EPA's TMDL for Lake Carey, F. X. Browne's assessment of Lake Carey commissioned by the Association, and preliminary reports of the septic survey conducted by Carlton Shupp. It is important to note that neither F. X. Browne nor Princeton Hydro—the two firms the Association has consulted—recommend central wastewater systems for Lake Carey and similar lakes. DEP itself mandates careful assessment of all alternatives when preparing Act 537 Plans, including the maintenance of on-lot systems and combinations of on-lot and cluster systems.

### Name *continued from page 1*

To expedite the process, the officers decided to apply for non-profit status from IRS under our original, and still official, name. So the Association is once again the Lake Carey Welfare Association. Probably not a bad name for an association with the following constitutional purposes:

- Take all possible measures needed to keep waters clean, unpolluted, and free of debris for swimming, fishing, and boating.
- Assist in developing recreation enjoyment in the area while combating excessive commercialism and development.
- Promote safety on the roads and waters of the area.
- Undertake other activities for the general welfare of the area and its residents.

## Association Engages Princeton Hydro

By Walter Broughton

At September's Association meeting, the members unanimously agreed to hire Princeton Hydro to provide technical assistance to the LCWA as it considers the Act 537 Plan now being developed by Harley Davis for the supervisors of Lemon and Tunkhannock townships. Princeton Hydro's staff of scientists, engineers, and environmental planners specializes in water and wetland resource management.

Princeton Hydro is no stranger to Lake Carey. Stephen Souza, its principal, has spoken twice at the Lake on issues of wastewater treatment. Princeton Hydro's Fred Lubnow is also the Association's consultant on its second Growing Greener Grant. In addition to Lake Carey, the firm's PA clients now include Lake Winola and Harveys Lake.

The scope of work to be performed by Princeton Hydro includes:

- Contacting DEP and scheduling a meeting with Mr. Darryl Fritz, DEP's Sewage Planning Supervisor, to communicate the concerns of the Association.
- Providing a written review of the draft Act 537 Plan after it has been made public.
- Testifying to the results of its review when the township supervisors schedule a public hearing to solicit public input on the plan.

The LCWA officers have been authorized to spend up to \$7,500 for these services. The Association welcomes contributions to pay for this work; they should be sent to: LCWA, PO Box 537, Tunkhannock, PA 18657. Please write Princeton Hydro in the memo field.

Princeton Hydro's work has received awards from the NJ Department of Environmental Protection, the Environmental Protection Agency, Region II, the American Society of Landscape Architects, and the North American Lake Management Society.

## Lake Carey Chapel

By Hollie D'Agata



Oliver, and year round lake residents Lynn Bierly 836-2530, and Nancy Davidson 996-0209.

It was a first for the Lake Carey Chapel to begin its season in June. Many chapel attendees who had enjoyed the non-denominational, inspiring, worship services during July and August requested that we open the chapel doors in June. We honored these requests and chapel attendance was enough to warrant holding services in June again next summer. On the Sunday of Labor Day weekend, we closed the doors of the chapel for worship services; however, the chapel is available for weddings from April 1<sup>st</sup> through October 31<sup>st</sup>. This past summer guest ministers conducted wonderful services. They usually commented that they enjoyed the beautiful view of they lake as they looked out from the pulpit. The congregation enjoyed two hymn singing services as well as our usual services. The board of directors thanks those of you who attended chapel services and invites all others to join us next summer. Please contact any board member for more information: Hollie D'Agata, Barry Breeser, Bill Lamoreaux, John Fassett, Frank

## Wastewater Management at Lake Carey

By Hetty Biaz

On Thursday, August 13, Dr. Stephen Souza, President of Princeton Hydro, spoke at the dam site to some 35 people about the pros and cons of various wastewater treatment systems (i.e., septics, sewers, etc.) for our lake. Copies of his talk are available on our web site at [www.lakecareypa.com](http://www.lakecareypa.com).

Dr. Souza emphasized the importance of maintaining our septic systems. Regardless of what might be recommended for Lake Carey in the future, it could be a long time before anything is actually implemented. Dr. Souza said that pumping our septics is like changing the oil in our cars; it keeps the system running properly. It contributes to higher quality water in our wells and lake, and helps prevent further degradation and contamination of our water supply. He urged us to all do the following:

- Pump out your septic tanks every three years.
- Use phosphate free dish detergents, wash detergent, and cleaning products.
- Do not do all your laundry in one day, space it out during the week as to not have a large influx of water entering your system at once.