

# The Lake Loudoun Lifeline



THE QUARTERLY NEWSLETTER OF THE FORT LOUDOUN LAKE ASSOCIATION

2nd Quarter 2008

## FLLA Addresses Stormwater Issues



This decal indicates a business that has reduced its stormwater impact

As clean water becomes more scarce, its protection has become a higher priority. We need it for drinking and to grow our food, we want to have clean water where we live and recreate and it supports wild life.

Many municipalities have been initiating public education programs to improve water quality and water management. Unfortunately, in the water bodies where quality standards are not met, the US EPA states that polluted stormwater run off is a leading cause. Stormwater is precipitation which travels across the land's surface, enters a system of conveyances, the MS4, and eventually flows into our lakes and rivers. The MS4 is a system of catch basins, curbs, gutters, ditches, pipes and storm drains, which discharges water into our local water bodies. The EPA now

has a program requiring certain urbanized municipalities to address stormwater pollution issues.

Stormwater becomes a problem when there is a decrease in quality and an increase in quantity. Through urban development, we alter the pathways and increase the rate that flowing waters travel over the land and enter the water bodies. Impervious surfaces such as pavement and roof tops prevent some of the water from seeping into the ground. Also as stormwater flows across the surface, it picks up pollutants and deposits them into our water bodies rather than being naturally filtered by the soils. Because of the larger quantity and increased flow rates, stormwater contributes to erosion in areas of little to no vegetative cover. Finally human health concerns are raised due to increased bacteria and toxic chemicals.

So what is being done locally? The EPA has mandated certain urban areas to monitor, control and investigate the MS4 system, including creeks and streams. All municipalities in the Ft. Loudoun Lake Watershed are now required to make annual progress reports to the Tennessee Department of Environment and Conservation. Furthermore federal

regulation has been established to enforce the Total Maximum Daily Loads (TMDLs) for any impaired creek or stream.

We at the FLLA have partnered with some of these municipalities to help provide research and education components for this program. For Loudoun County, the Town of Farragut and the City of Knoxville, we have performed tests for stream health, habitat assessments for stream integrity and water quality samples on Cloyd Creek, part of Floyd Creek, Second Creek, Love Creek, Third Creek and Baker Creek. We had a number of volunteers for the Second Creek work and we could not have done it without them.

The FLLA and Program sponsors (see right) have also begun a Stormwater Best Management Practices (BMP) for Food Service Facilities Workshop to educate these businesses on how to help eliminate pollution from entering the storm drains and entering Ft. Loudoun Lake. The first was in Loudoun County on June 17. The second workshop will be in Knox County and the next scheduled workshop will be in Loudoun County in October. This program was featured on Knoxville Now on 97.5 FM.

## Second Creek Volunteers



## Sponsor Logos



Disclaimer: Although this product was funded in part by the US Environmental Protection Agency under the National Environmental Education Act grants program, it may not necessarily reflect the views of the Agency and no official endorsement should be inferred.

## Before



## Shoreline Restoration Project

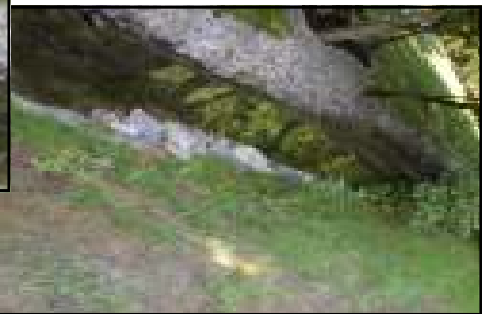
During April of this year, the Fort Loudoun Lake Association worked for four families to restore shoreline along their property on Ten Mile Creek. This project helped to control streambank erosion along 250 feet of shoreline. Sediment is a large source of surface water pollution. Fort Loudoun Lake Association

removed invasive plants and installed minimal rip rap along the shoreline to stabilize the bank. Afterwards, native plants were planted to strengthen the soil, aid with erosion control, and give the shoreline a more aesthetic appearance. This is one of three similar projects that have been performed by the

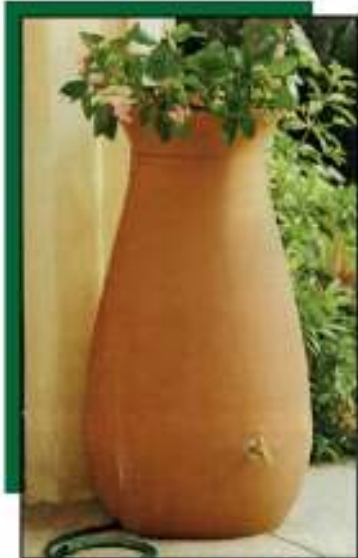
FLLA in the last year. Overall over 750 feet of shoreline has been restored by the FLLA. Take a look at our before and after photos and notice the improved clarity of the Creek in the after pictures.



## After



## Rain Barrel Workshops



New 65 gallon rain barrel offered by the FLLA

Rain barrels are an important tool for conserving water, they help to prevent surface water pollution and they can save you money!

The FLLA has been trying to increase awareness of this

valuable tool in the Fort Loudoun Lake watershed by offering free educational workshops. The first workshop took place in Knox County at Earth Fare in Turkey Creek. 30 people squeezed in the small community room there. The second workshop was in Blount County at the Blount County Chamber of Commerce (see photo right) and had approximately 50 attendees. Another workshop is scheduled for August 21st and will take place in Loudon County.

At the workshops, attendees learned why a rain barrel is important for the environment, how much water they could collect based on the size of their roof, and how rain barrels are made and installed. If you missed these workshops, please check with us during August for the date of the next one. You can find event information on our

home page [www.fllake.org](http://www.fllake.org).

The FLLA has received coverage in numerous media publications regarding its rain barrels. In June, FLLA and two of its members, Roger and Jan Kiger, were featured on WBIR with Robin Wilhoit. The Kigers were using their barrels to fill their pool.

The FLLA now offers two more styles of rain barrels (see photos left and right). For more information on these new barrels and the original style barrels, please see our website [www.fllake.org/beta/article.php](http://www.fllake.org/beta/article.php) <http://www.fllake.org/beta/article.php?id=8>, or call us at 865-523-3800.



New 40 gallon rain barrel offered by the FLLA



Jake Hudson, Zone Manager, shows how a rain barrel is made and installed

# The Fort Loudoun Lake Association

## Workshop at the Eagleton Boys and Girls Club

FLLA staff are currently working with the Eagleton Branch of the Boys and Girls Club in Maryville. This is the third club to participate in the FLLA environmental education program.

In the first workshop, the children learned about stormwater runoff and pollution using the hydroscape. In the second workshop, they focused on rain barrels as part of the solution for stormwater pollution. They were able to handle the rain barrel and see

its parts and how it is assembled. Then they all had fun decorating the barrel. At the third workshop, the kids will install the barrel and will be able to use it to water their garden. In addition to providing invaluable environmental education for the kids, the FLLA will also help reduce the Eagleton Club's stormwater.



Kids at the Eagleton club decorating the Club's rain barrel

## 2nd Quarter 2008 Contributors

We would like to thank the following contributors of the Fort Loudoun Lake Association who donated during the 2nd quarter of 2008:

### Partner:

MasterCraft, Parker Stair  
Bob and Janet Prince

### Benefactor:

Fort Loudoun and Tellico Lake Association, Sam Rudder

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Charles and Jane Savas  
Lou and Sherlene Schumacher  
Ed and Denise Smith  
Bennie and Frank Myers on behalf of Townsend and Connie Collins  
Art and Doris Grayson  
Maplehurst Inn, Sonny and Becky Harbin

IN ADDITION TO PROVIDING INVALUABLE ENVIRONMENTAL EDUCATION FOR THE KIDS, THE FLLA WILL ALSO HELP REDUCE THE EAGLETON CLUB'S STORMWATER



FLLA staff and volunteers help pull ducks out of the water at the Great Knoxville Rubber Duck Race

956 Volunteer Landing Lane  
Knoxville, TN 37915

Phone: 865-523-3800

Fax: 865-523-3838

E-mail: Rachel@FLLake.org



THE QUARTERLY NEWSLETTER OF THE FORT LOUDOUN LAKE ASSOCIATION

## Good News for Ft. Loudoun Lake

Last year, Congressman Duncan was able to secure a provision in the Water Resources Development Act that would make the project of Removing Debris on Ft. Loudoun Lake eligible for funding. The FLLA along with a special task force has been active in working with Congressman Duncan in pursuing this request for the Appropriations Committee to provide \$500,000 in funds for the project. The decision for funding will be made by the committee this fall and monies would be available in

2009. Please keep your fingers crossed that the FLLA will have funding to buy, maintain and operate suitable equipment for removing the logs and debris from the waterway. Up to now, our Zone Managers have been doing their best with john boats and ropes removing "One Log at a Time." Since January 2007, the FLLA has removed 2,034 large bags of trash, 9,932 logs, and 671 large miscellaneous trash items. This grant would allow the FLLA to do even more!

## Schedule of Events for 2008

We hope you can join us. Check out our website or contact us for more details on any of these events

### August

August 5, Quarterly Member Meeting of the FLLA at the home of UT Pres

August 16, Great Knoxville Rubber Duck Race

August 21, Rain Barrel Workshop, Loudon, TN

August 24, 2-4pm, Family Fun Festival, The Cove at Concord Park

### September

September 16, Memorial and Proclamation in remembrance of Jerry Wisse, Volunteer Landing, 10am

September 24, Business and Community Partnering for a Cleaner Environment, Food Service Facility Stormwater

Training, Cedar Bluff Branch Knox County Library

September 27, 2nd Annual Paddle for Clean Water

September 30, Christian Academy of Knoxville Leadership Clean up and Educational Retreat

### October

October 7, Business and Community Partnering for a Cleaner Environment, Food Service Facility Stormwater Training, Loudon County Tourist Center

*Sunset in zone six on Fort Loudoun Lake. Used with permission of the photographer, Gary Heatherly.*



## 3rd Quarter Member Meeting

The 3rd Quarter Member Meeting of the FLLA was held on August 5 at the home of UT President John and Carol Petersen (see picture lower right). TN Yards and Neighborhoods presented a shortened version of their Home Landscaping Workshop. Members and guests learned about the nine steps toward a more environmentally friendly yard:

- Designing a personalized landscaping plan
- Site analysis considerations
- Native plant selections for East Tennessee
- Innovative & practical ways to manage water-related issues on your property
- Correct mulching techniques
- Proper tree planting
- Pervious surfaces (for sidewalks, parking

- areas, and driveways)
- Increasing soil organic matter
- Rain gardens!

You can find out more about pervious concrete at this website [www.perviouspavement.org](http://www.perviouspavement.org). In addition upcoming events and recent activities were announced.



John and Carol Petersen welcome the FLLA to their home for the 3rd Q Member Meeting