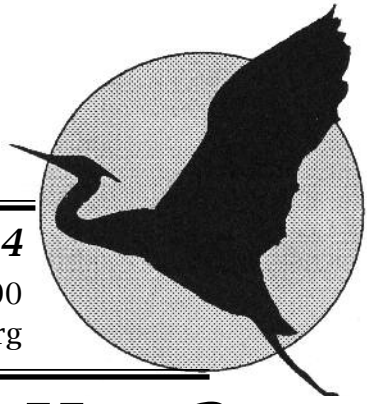


Voice of the Haw



The Haw River Assembly *December 2014*



P.O. Box 187 · Bynum, NC 27228 · (919) 542-5790

email: info@hawriver.org · www.hawriver.org

How Healthy is the Haw?

We are often asked about the health of the Haw and how safe it is for recreation. There is no easy answer to this question, and monitoring results show much variance in water quality in the river, the creeks, and Jordan Lake. But this is an important question, and I'd like to offer some guidelines from the data available, and from my perspective as Haw Riverkeeper and the many years I have lived near, and enjoyed, the Haw.

The Haw River has seen a great revival in its ecosystem health over the past 50 years, due to changes in agriculture and building practices that create less soil erosion; pollution restrictions; changes in industry; and federal, state, and local laws that require greater wastewater treatment and stormwater management. Riparian buffer rules and new parklands have allowed forests to re-grow along stream banks, providing habitat for plants and animals. It's a beautiful river with great hiking and paddle trails.

In this same 50 years the population has tripled in the 1,700 square mile Haw River watershed. Even with better laws and practices, the volume of wastewater and stormwater pollution from cities and suburbs has increased. There are 7 municipal wastewater treatment plants (WWTP) that discharge into waters of the Haw in Guilford, Rockingham and Alamance counties. (Burlington's South WWTP near Swepsonville is the last in this row.) The river gets a break after that, flowing many miles through southern Alamance and Chatham County without new sources of urban stormwater or major municipal wastewater effluent, until Robeson Creek from

Pittsboro meets the river at Jordan Lake.

What does the monitoring data tell us? Unfortunately NC river basin plans are now rolling out every 10 years instead of 5, due to changes imposed by the legislature. The most recent one for our basin is from 2005. The Haw River Assembly's River Watch water monitoring program has been gathering monitoring data by our citizen scientist volunteers since 1995 and gives us a picture of stream health and changes over time (go to <http://hawriver.org/projects/stream-monitoring/> to learn about the project and review the data through 2013.)

Another source of information for the Haw River is the state's bi-annual 303(d) report to the EPA of "Impaired Waters" for those not meeting water quality standards. Reason for the impairment can be specific, such as too much of a heavy metal or too little dissolved oxygen, but in most cases in our river basin, the listing is because of poor health of the aquatic organisms (water insects, crustaceans, fish etc.) that live in those waters. We are not given the cause, but only the impact. The Draft 2014 303d list (<http://portal.ncdenr.org/web/wq/ps/mtu/assessment>) for NC's waters was partially approved by EPA this summer, but they are still weighing whether NC's approach to toxic and non-conventional pollutants is insufficient.

There are 174 miles of creeks in the Haw watershed listed as impaired, including most of the creeks in *continued on page 3*



25th Learning Celebration Rocks the River!

This happy crew of volunteers at week two in Saxapahaw celebrates a glorious week of teaching 4th-graders about the river. Since 1990, the Haw River Assembly has offered this hands-on riverside river education program to over 41,000 students in the Haw watershed. *see pages 4 - 6*

HRA Board of Directors

Dr. Ruth Lucier, President, *Bynum*
(Bennett College, Greensboro)
Anne Cassebaum, Vice-President, *Elon*
Chris Carter, Treasurer, *Saxapahaw*
Tom Patterson, Secretary, *Chapel Hill*

Dr. John Bang, *Cary (NC Central University)*
Sam Berryhill, *Graham*
Melvin DuBose, *Burlington*
Lynn Featherstone, *Chatham*
Sharon Garbutt, *Chatham*
Jim Hood, *Greensboro (Elon University)*
Dr. Janet MacFall, *Saxapahaw (Elon University)*
Dr. Cristina Moreira, *Oak Ridge (Bennett College)*
Justin Robinson, *Durham*
Jo Sanders, *Chatham*
Deepa Sanyal, *Ferrington*
Daniel Sigmon, *Graham (Alamance Comm. College)*
John Wagner, *Chatham*

Mac Jordan, Emeritus Member, *Saxapahaw*
Omega Wilson, *Environmental Justice Advisor*

HRA Staff

Elaine Chiosso, HAW RIVERKEEPER® and
Executive Director
Tracy DeVoe, *Watershed Education Coordinator*
Kathy Buck, *Office Manager*
Cynthia Crossen, *Newsletter Editor*

To join The Haw River Assembly

or renew your membership, send a check to:

HRA, P.O. Box 187, Bynum, NC 27228.

Individual: \$25 Family: \$40

Sustaining: \$50; Heron Circle: \$100 & above

Low Income: \$10

The Haw River Assembly is a nonprofit grassroots organization founded in 1982. Our mission is to protect and restore the Haw River, its tributaries, and Jordan Lake; and to build a community that shares this vision. (919) 542-5790 www.hawriver.org



Photo by Tracy DeVoe

Notes from the Haw

What a gorgeous autumn in the Haw River watershed this year with trees ablaze with color under deep blue skies well into November. I was in a car crash in late October that left me with some broken ribs (much better now). As life slowed down for rest and healing during those beautiful fall days, I had time for reflection, and gratitude, to all those who helped me, and the Haw River Assembly, carry on. Special thanks to Tracy and our Board of Directors for putting on a great Annual Membership meeting on November 2. Mac Jordan gave a great presentation about the past, present and future of Saxpahaw (read more on page 7). Thanks again to Paperhand Puppet Intervention for letting us use their beautiful studio in Saxapahaw for the event.



Photo by Susanne Gonski

A big welcome to our three new Board members, just elected at our annual meeting:

Jim Hood teaches courses in literature at Guilford College in Greensboro, where he has been a faculty member since 1999. He has also taught courses on the concept of wilderness, the environmental impact of agriculture, and natural history accounts of the Cape Fear River Basin. Growing up in South Florida, he bought his first set of binoculars and Peterson's Field Guide to Eastern Birds while in junior high, and his interests include canoeing, hiking, and woodworking.

Dr. Cristina Moreira is an Associate Professor of Biology at Bennett College in Greensboro. She is also the VA-NC Project Director there for an NSF funded grant to recruit more minorities in STEM (Science, Technology, Engineering and Mathematics). Dr. Moreira attended the University of Sao Paulo (Brazil) where she earned a B.S. in Agronomy Engineering and an M.S. in Horticultural Sciences. Later she attended the University of Florida where she earned a Ph.D. in Horticultural Sciences.

Daniel Sigmon is a native North Carolinian who grew up loving the outdoors and nature, and has a B.S. in biology and an M.S. in marine biology from UNC-Wilmington, and an M.S. in Oceanography from Oregon State Univ. He is a biology and life sciences instructor at Alamance Community College, and the advisor for their Sustainable Environment Club. Daniel has been a volunteer with our Haw River Watch stream monitoring project since 2003, on Little Alamance Creek and the Haw.

We look forward to the guidance and knowledge they will bring to the Haw River Assembly, and a big thanks to all our returning Board members for all they do! 2015 should be a great year for HRA!

From the river, Elaine Chiosso, HAW RIVERKEEPER®

This beautiful marbled salamander, found by Zella Magoo at the LC site in Saxapahaw, reminds us of the varied and wondrous life that the river supports, and encourages us in our efforts to restore and protect the Haw's waters.



HAW RIVERKEEPER®

Issues in the Watershed

continued from page 1

from Elaine Chiosso, HAW RIVERKEEPER®

urban areas, where polluted stormwater running off paved and built surfaces is greatest. 7.8 miles of the Haw River are listed as impaired in the upper reaches, but several sites on the Haw and some tributaries have been removed since 2012, which we believe is due more to changes in methodology than in actual improvement in those waters.

Sections of the following creeks are on the Impaired Waters

list: *Alamance Co.:* Back, Big Alamance, Haw Creek, Little Alamance, Tickle, Travis ♦ *Chatham Co.:* Collins, Dry, Robeson, Terrells (north side of river), Turkey ♦ *Durham Co.:* Little, New Hope, Northeast, Third Fork ♦ *Guilford County:* Brush, Horsepen, N. Buffalo, S. Buffalo, Reedy Fork, Guilford College Trib., Varnals ♦ *Orange (Chapel Hill):* Bolin, Booker, Morgan ♦ *Rockingham Co.:* Little Troublesome, Troublesome.

Returning to the question of how healthy the river is for recreational use – it is clear that most creeks in urban areas are not clean enough to swim or fish in. There are also portions of creeks in rural areas that show signs of being contaminated by runoff from fields where sludge (the treated solids from municipal wastewater) is land applied. There is excess algae growth, diminished aquatic life, and high alkalinity in much of the Haw River as it flows through Guilford and Alamance, due to both stormwater and wastewater effluent, which can also contain heavy metals and other chemicals. By the time the river flows down to Bynum, we see some improvement in water quality and aquatic life, and even more improvement further downstream in the Lower Haw River State Natural Area near Hwy 64 bridge. Unfortunately, this healthiest part of the Haw would be most negatively impacted by the building of Chatham Park.

At this time, we recommend that water contact in the Haw River upstream of Chatham Co. be limited to wading and paddling. Although I cannot in good conscience recommend swimming in the Haw River in Chatham Co. due to unpredictable conditions (dangerous river conditions, temperature, low water, unusual pollution events), I have done so myself over the years. Jordan Lake has excessive algae and other water quality problems, with a total of 2,291 acres on the Impaired Waters list. The worst areas are in the shallow Upper New Hope arm in the upper reaches near Chapel Hill and Durham and the Haw River arm. The state park swimming beaches are located in the cleanest part of the lake, the Lower New Hope Arm, near the Hwy 64 causeway. However, North Carolina does not regularly monitor swimming beaches for water quality.

Fish consumption should also be limited for fish caught in the Haw. Unfortunately, all surface waters in North Carolina contain too much mercury, mostly from air borne emissions from coal-fired power plants, some far to the west of us. To read more about safe fish consumption go to:

<http://epi.publichealth.nc.gov/oeefish/advisories.html>.

We should all be outraged that our waters are not safe for us to use for all recreational purposes, and are not meeting water quality standards. The 1972 federal Clean Water Act promised

us swimmable and fishable waters in all the USA by 1984. Join us in continuing to advocate for our right to clean water.

Agreement with Burlington to Prevent More Raw Sewage Spills

The final agreement by Burlington with the Haw River Assembly and Cape Fear Riverwatch to prevent future sewer spills was signed and approved by the Burlington City Council on Sept. 6. Burlington is proceeding with the work agreed to, including repair and replacement of the most at risk pipes and a new sewer grease prevention protocol (the cause of many smaller spills). We will continue to work with the city and monitor progress going forward. As part of the agreement, HRA will receive more immediate notice about future spills over 10,000 gallons. If you would like to be on a listserve to receive notices from us please email us at info@hawriver.org with subject line of “sewer spill list”.

Pittsboro Matters Lawsuit Results in New Re-zoning Hearing

Pittsboro Matter’s lawsuit challenging significant deficiencies in the June re-zoning approval for Chatham Park has resulted in the developers having to undergo a completely new re-zoning authorization, as they seek to add 48 new acres to the project and change language in the Master Plan. This action requires a new series of reviews, starting with a public hearing set for Nov. 24. Following this public hearing, the revised plan will be subject to reviews by the Pittsboro Town Planning Board and Board of Commissioners. The Town Board has the authority to make additional substantive changes to the revised plan before proceeding with any new re-zoning authorization. They could reconsider previous recommendations to designate 30% of the development as natural areas, and impose a 2,000-foot buffer along the Haw River as the town’s land use plan recommends. HRA has urged much greater protections of stream buffers and forests for this massive development adjacent to the Haw River and Jordan Lake, that could become a new city with 55,000 residents and 22 million square feet of commercial area. To keep updated on the lawsuit and further public hearings, go to <http://pittsboromatters.org>.

NC People Speak Out Against Fracking Over 1,500 people attended the four Mining and Energy Commission (MEC) hearings across the state, and over 200,000 people submitted written comments on the rules, with most of them protesting that the rules do protect us from the dangers fracking poses to water, public health, and communities. In response, the MEC made minor changes such as increasing the buffer between municipal water supplies and drill sites, but they refused to forbid open storage pits for frack wastewater or change other parts of the rules that are inadequate. The Frack Free NC Alliance of which HRA is a part, delivered 59,000 petition signatures to the Governor’s office on October 14, calling for a ban on fracking in NC. His only response so far has been a press statement complaining about the number of boxes the petitions were delivered in, but nothing on their content. The fight is not over, and will continue on through local, legislative and judicial initiatives. To keep updated on all issues concerning fracking go to the website FrackFreeNC.org.

Watershed Education News:

Teaching About the River

from Tracy DeVoe,
Watershed Education
Coordinator



Photo by Fred Tuman



In the words of the 4th-graders:

Thank you...

- * for inviting us to the Haw River Learning Celebration.
- * for taking your time out to teach us about the Haw River.
- * for the very interesting puppet show, the clay to sculpt, and the chance to be there.

I Learned...

- * so much about the trees and the Haw River.
- * all about interesting bug larvae like dobsonfly, damselflies, mayflies, and many, many more!!
- * about the danger that turtles are in, and all the different animals that live in the Haw River.
- * how pollution can hurt the river.
- * how to tell if water is healthy.
- * about pollution and a solution.
- * I loved it so much!



At the end of this beautiful Learning Celebration season, our thoughts turn gratefully to those who have helped make this wonderful hands-on environmental education program possible. We are honored to acknowledge everyone's dedication in helping the Haw River Learning Celebration (LC) live on to still be, 25 years later, a huge success and visionary approach to connecting children with nature and the beautiful Haw River. With whole heart and gratitude,

thank you Elaine Chiosso, HRA Executive Director, for always promoting, supporting, and preserving the meaningful legacy of the LC.

To help celebrate our 25th anniversary, Louise Omoto Kessel, LC founder, returned with her family to volunteer in Saxapahaw. In a quote from the very first LC, Louise wrote, "We keep the festival magical by *giving* the festival to the creative people involved to the greatest degree possible! These people who came together lived their dreams to such a degree that it made them *restless* to follow their dreams even upon returning home. This sort of thing has such deep power and magic. It will never cease to be surprising – no matter how many times we do this."

We hosted over 1,000 students and teachers from 15 schools within Haw watershed counties, as well as over 100 volunteers and contributors who helped make this year's 25th Anniversary Haw River Learning Celebration a huge success.



THANK YOU TO EVERYONE WHO MADE IT POSSIBLE! WE COULDN'T DO IT WITHOUT YOU!

Steering Committee members Elaine Chiosso, Chloe Noblit, Maja Kricker, Cynthia Crossen, and Doug Brown helped grow creative ideas and new approaches to enhance our program. * **Safety and Logistics Coordinator Lawrence Petersen** offered constant devotion and love for the Haw River and nature, as well as for his knowledge and expertise of logistics and bringing his stellar approach to community. * **Kathy Buck** offered unwavering dedication and administrative support throughout the program. * **Chore Coordinator**

Emma Gilmore brought her love of teaching/connecting children with nature and the Haw River, and was a huge help with volunteer chores and administrative needs during the three weeks of the LC. * **Elizabeth McCotta Blackwell** was wonderful help teaching students about macroinvertebrates and water quality, as well as catching critters and site cleanup.

* **Chris Carter**, incredible in every way, provided the LC with solar energy, puppet show direction, and much inspiration to the young LC volunteers as well as the 4th-graders. * **Jamie Saunders** offered constant help with site moves; delicious and healthy meals for volunteers, cooked with beautiful love and dedication; and assistance in anything we needed help with. * **C.C. King** brought her considerable expertise in environmental education to provide engaging, inspiring, and really fun Stream Watch programs, constant and unwavering devotion to the LC and the Haw River, and for her incredible sense of humor and luster for life! * **Maja Kricker** brought her dedication to the LC and inspired all the students by her amazing methods of teaching macros and stream assessment! * **Eric Chetwynd** generously contributed to the LC's week at Camp Guilrock, and provided effective and inspiring ways of teaching students how to be stream

stewards. * **Martha Pentecost** inspired all the LC youngsters and put on unforgettable puppet shows for the students. * **Cynthia Crossen** stepped in with leadership when I was sick and helped make the LC rain day in Bynum a huge success!

Volunteers who helped with site moves, set up the program sites, and taught the students – thank you! We are so grateful for returning volunteers, as well as this year's new volunteers: Joy Hewett, Mary Honeycutt, Louise Hobbs, Dee Reid, Nathalie Worthington, Cinc Hayes, Madi Cottrell, Francisco Plaza, Lenore Yarger, Geneva Yarger and Quinn Yarger, Jane Gallagher, and Karen Allen. *Thank you so much everyone and I look forward to seeing you next year!*

Thanks to Chris Carter, Maja Kricker, Rufus, Sutton, and Paul Fleckenstein for serving as crew all three weeks. Thank you to Jo Sanders, Martha Pentecost, Cynthia Crossen, C.C. King and Sue-Anne Solem for dedicating 2 weeks to the Learning Celebration! Thanks to **Wanda Sundermann** and **Mark Marcoplos** for hosting our annual Work Party and Thank You Party at their beautiful home, and to **Libby Searles-Bohs** for creating gorgeous handmade frames for our Thank You gifts to all the volunteers. Thanks to **Clyde Jones** for mowing in Bynum, as well as for our beautiful LC T-Shirt art.

Special thanks to **HRA Board of Directors who took part in this year's LC**: Chris Carter, Sharon Garbutt, Jo Sanders, Janet MacFall, Anne Cassebaum, and Elaine Chiosso (HRA's Executive Director and Haw River Keeper).

We would like to say a special thank you to land owners and site providers for providing us with forests for the students to learn and play in, as well as river access. Thanks to **NC State Parks** for use of the Lower Haw River State Natural Area in Bynum; Saxapahaw landowners **Lea Clayton, Donovan Zimmerman, Elizabeth England, Yolanda Lujan, Jim and Diane Burke, and James and Janet MacFall**. Thanks to **Heather LaGarde** and folks at the **Haw River Ballroom** for offering an alternate program site in case of inclement weather. Thanks to **Camp Guilrock**, and to **Mark Christie** for his support there.

We would like to give a very special thank you to **Rachel Winters** for coordinating meal efforts to provide us with amazing food for three weeks. Thanks to the many wonderful meal providers who fed us so deliciously, with lovingly prepared vegetarian meals and care given to those with special dietary needs. Other greatly appreciated food contributions came from the **Saxapahaw General Store, the Eddy, Whole Foods, and Starbucks.**

continued on page 6



And a very special THANK You to these local businesses who offered support and donations to the LC:



REI awarded the Learning Celebration a grant for \$5,000 this year! REI means more than great gear! Through giving, responsible business practices and more, they help connect people to the outdoors and help protect the natural places we love.



STARworks Ceramics provided wild, native Piedmont clay for the Clay station.



Luke and Shakori Hills; for donating a gorgeous 40x40 vintage tent, including setup help, which came in very handy for rainy days in Bynum.



MPowered helped HRA afford Luci Lights this year.



Joe Jacob and Haw River Canoe & Kayak donated guided paddling trips for our volunteers' enrichment and connection with the river.



Kevin Meehan of Turtle Run Farm loaned us his "use yer foots" to help show the LC 4th-graders how fun water conservation can be, and how much that means to our planet and river!



Paperhand Puppet Intervention loaned us beautiful and amazing puppets for the puppet show so loved by the 4th-graders.



Standing in the Stream

Haw River Watch Project News

from Project Coordinator Tracy DeVoe

(919) 542-5790; tracy@hawriver.org

The Stream Watch Station at the Learning Celebration was a huge success this year. Bynum, Saxapahaw, and Camp Guilrock all provided diversity in what was collected for each station. Combining results from all three LC sites, we found different species of feathery-gilled mayflies, crane flies, caddisflies, damselflies, dobsonflies, sowbugs, scud beetles, dragonflies in different stages of metamorphosis, live clams and mussels, gilled snails, fishfly larvae, riffle beetle larvae, black-fly larva, midge fly larva, alderfly larva, water pennies, and some crayfish. We are finding larger numbers of (pollution tolerant) leeches this year as opposed to last year. That being said, leeches are quite beautiful and interesting and provide opportunities for students, parents, and teachers to get to know what lives in the Haw River and how their presence helps us indicate the health of the river. Wow!



Photo by Elaine Chiosso



Photo by Tracy DeVoe

Maja Kricker, C.C. King, and Elizabeth McCotta Blackwell organized, collected macroinvertebrates (along with LC young volunteers), and taught the LC Stream Watch stations this year. They are incredible teachers with enthusiasm that is contagious. The students loved the critters and were inspired to learn that they too, could go to a stream or river and do a stream assessment of their own with their families and friends! There is nothing quite like seeing the sparkle in a student's eyes when they realize they are empowered with the knowledge to help protect their watershed and river.

River Watch News: HRA is calling all river lovers to join the Haw River Watch Project in 2015 and help keep watch over our streams! Please visit www.hawriver.org for more information, or call us at 919-542-5790. We can schedule field training for you, your family, and your friends, that will equip you with the understanding, theory, and skills needed to feel confi-

dent in monitoring a stream or section of the Haw River. Here are a few sites that I hope to get teams to monitor: Pokeberry Creek a few 100 feet before it flows into the Haw (there is going to be a lot of development coming soon upstream); Parker's Creek; the confluence of N. and S. Buffalo Creek; Big Alamance Creek above and below the Waste Treatment Plant; Back Creek above and below the Waste Treatment Plant; and Reedy Fork. I will also be working alongside Elaine Chiosso in pinpointing what creeks need to be monitored within our local shale basin region, beginning to monitor them, and hopefully finding teams to adopt these sites. We currently have one team monitoring Shaddox Creek, which is a step in the right direction! We have another new River Watch member to celebrate and send big thanks to! Tommy Magrinat is a long time paddler of the Haw and HRA member. He and his family will be monitoring Jones Branch that runs into Herndon Creek. Thank you Tommy!!

Mac Jordan Talks of Saxapahaw Past, Present, and Future

Mac Jordan gave us a wonderful look at the past and present of Saxapahaw at our Annual Meeting on November 2, at the Paperhand Puppet Intervention Studio in Saxapahaw. This 19th century textile mill village on the banks of the Haw in southern Alamance County has undergone an amazing transformation into a creative and bustling 21st century riverside community. Mac, grandson of B. Everett Jordan, grew up in the village, and when the mill closed in 1994 he envisioned and guided a transformation to the place we see today, finding



Saxapahaw Millworkers, 1897

partners who also saw the potential in this 1800's brick factory and mill town. The old mill has been historically renovated to apartments, and Saxapahaw has become a dining, music, arts, and river paddling destination, with something new always in the works.

Mac also shared with everyone how significant the Haw River Assembly has been in the transformation of Saxapahaw. "Without the work of the HRA in protecting the Haw River, educating the public about the value of the river, and its active role in improving the water quality of the Haw, the revitalization of

Saxapahaw as a beautiful place to live and as a river/trail destination would not have been possible. It's always been the river that gave Saxapahaw life—for the Native Americans, for the grist and cotton mill workers, and now for us. While so much has been accomplished since that first dedication of the headwaters by the HRA—we've got a long way to go to protect, promote, and preserve our river so that more and more people can experience its life giving qualities."

To take a look at Mac's slide show of Saxapahaw, go to HRA's website www.hawriver.org. Below, the Saxapahaw mill then and now.



Photo by Tracy DeVoe

The New 2015 HRA Clyde Jones T-shirt is Here!

Designed by Clyde Jones, this is a beautiful native spotted salamander on a blue-green background, printed on a yellow soft 100% organic cotton T-shirt by TS Designs in Burlington - with their environmentally friendly non-toxic printing process. Good for you, good for the river!

\$ 25 (adult) S, M, L, XL, XXL Available at the HRA office in Bynum
\$ 25 (ladies style) S, M, L, XL (919-542-5790), Townsend Bertram in
\$ 20 (youth) S, M, L Carrboro, Saxapahaw General Store, &
Chatham Marketplace in Pittsboro.

Special Holiday Sale - Give a Gift for the River!

This December, HRA's office will once again be transformed into a holiday shop with 24 years of colorful Haw River shirts for sale, all designed by Clyde Jones, Bynum's world famous folk artist. Vintage shirts from \$5 - \$15, as well as our brand new shirt at \$25. Copies of "Down Along the Haw", the history of the Haw River by Anne Cassebaum, will also be for sale (\$25).

Haw River Assembly 2015



Come by the HRA Bynum office, 199 Bynum Hill Road, Pittsboro 27312, **Wed. Dec. 3 through Fri. Dec. 19**. Open weekdays 10 am to 5 pm (call first to make sure we are in: 919-542-5790), and on **Sats. Dec. 6 and Dec. 13** from 10 am to 3 pm.



COMING UP: THE 25TH ANNUAL HAW RIVER CLEAN-UP-A-THON!

Join volunteers cleaning up trash from the banks of the Haw River, the creeks, and Jordan Lake, for this year's Haw River Assembly Clean-up-a-thon on **Saturday March 14**.

Teams will be getting out trash – harmful to water and wildlife – in our river and creeks from Greensboro all the way down to Jordan Lake. Join a team or start your own – youth groups with adult supervision are welcome to join. We provide the bags and gloves, you provide the people power!

Since 1991, 4136 volunteers have cleaned up 7,653 bags of trash, 1,470 tires, and many tons of car parts, appliances, and other big junk from our waterways! Be part of the clean-up! For more information and to sign up, contact HRA at (919) 542-5790 or info@hawriver.org.

At left: For last year's Clean-up-a-thon, volunteers from Townsend Bertram & Co., organized by Tracy DeVoe, cleaned up along Bolin Creek in Carrboro.

Upcoming HRA Events

Dec. 13-14, 2014 Haw River Watch Monitoring weekend. For info contact Tracy: (919) 542-5790, tracy@hawriver.org.

Dec. 3 - 19, 2014 Annual HRA Holiday Sale, with T-shirts galore. See details on page 7.

March 14, 2015 Haw River Assembly Annual River Cleanup. See details above.

HRA often offers winter hikes -- check www.hawriver.org for details & updates.

**Haw River Assembly
Clean-Up-A-thon
Sat. March 14, 2015**

Address Service Requested

Brynm, NC 27228

P. O. Box 187

Haw River Assembly

Non-Profit
U.S. Postage
PAID
Chapel Hill 27514
Permit No. 490