



NSRWA
www.nsrwa.org

RiverWatch

April 2011

THE NORTH AND SOUTH RIVERS WATERSHED ASSOCIATION, INC.

Celebrating 40 Years!

Restoring Nature's Streamflow

Dams and Culverts Fragment Habitat, Degrade River Systems

NSRWA Begins Long-Term Program to Replace or Upgrade Obstructions Across the Watershed

Most of us are very familiar with the term habitat fragmentation and how it applies on land, but it is less common to hear about fragmented rivers. If we think of rivers as long linear ecosystems, then when we place a dam or an improperly designed culvert in the river we stop a river's natural flow with multiple consequences:

- Herring and shad cannot migrate to breed.
- Fragmenting a river system into discrete sections results in "species isolation" (they can only find so many others to mate with!), diminishing their populations and making them much more vulnerable to extinction. Our native Eastern Brook Trout is one of the species most impacted.
- A culvert placed in a stream at a road crossing that is perched or above the level of the stream bottom disconnects the stream-flow during low flow periods.
- Undersized culverts can lead to clogging and flooding upstream.
- Besides preventing migration - dams create impoundments behind them that often have degraded water quality. The water is much warmer behind the dam, leading to lower dissolved oxygen levels in the summer. The impoundment settles out sediments and nutrients from upstream and the "pond" starts to fill in, these sediments are often then colonized by invasive species. The river downstream of the dam now becomes sediment deprived, contributing to salt marsh erosion and often during the summer months flow is not allowed over the dam thus dewatering downstream sections.

The NSRWA's Blue Communities campaign seeks to restore natural flows to the North and South Rivers. Whether by recharging water into the ground through smart stormwater management and land protection, by reducing our water consumption, or by reconnecting streams that have been altered by physical impediments like dams and culverts our goal is to recreate or mimic the natural processes that have been lost.



Culvert in Furnace Brook, Marshfield - an example of a perched culvert impeding flow and fish passage.

To do that requires adaptive management practices. There is no "one size fits all" when it comes to fixing these problems in our rivers. Each stream needs a different approach depending upon the condition of the obstructions, who owns them and what purpose they serve.

Restoring Flows through Water Conservation

In the First Herring Brook project in Scituate where water supply dams have left the brook high and dry during the summer and prevented herring from migrating out in the fall our approach is to increase water conservation particularly in the summertime-the less

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THE NORTH AND SOUTH RIVERS WATERSHED ASSOCIATION

The mission of the North & South Rivers Watershed Association is to preserve, restore, maintain and conserve in their natural state, the waters and related natural resources within the watershed.

Our goals are to:

- *Restore the water quality of the rivers by identifying and correcting adverse impacts;*

- *Encourage stewardship of the watershed through public education, outreach and recreation programs; and*

- *Promote responsible growth by working in partnerships to preserve open space, scenic vistas and sensitive natural resources.*

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Letter from the President

Each January, the board holds a directors retreat. I should say up front that this in no way resembles the kind of boondoggles that you may have heard about some organizations using as perks for boards and management. We choose local (brrr!) meeting sites, contribute potluck menu items, and spend five or six hours considering the kind of issues that typically don't surface in the course of our regular business meetings. For example, last year's agenda was focused on restructuring initiatives to improve board governance.

This year we devoted much of the available time to reviewing the association's major accomplishments, putting our understanding of them into longer term context and identifying where we thought we could have done better. In large measure that review set the stage for beginning our long term planning process: trying to anticipate the forces that will impact our mission in order to realign resources as necessary. Fortunately, we have a good foundation on which to structure this process; a tremendous amount of thoughtful work went into our 2005 five year plan and many areas will require just some tweaking to preserve their relevance. We are committed to presenting the results of our current planning process at this fall's annual meeting.

We want you to be a part of this planning process - sharing your ideas, comments and criticisms. In the coming months, we will be doing some formal surveying of the membership. But if you have something you think we need to know, don't wait until you receive a questionnaire to share it. Don't hesitate to drop us a note or pick up the phone and contribute to the conversation!

One of the planning areas that is already receiving a great deal of attention is our membership strategy. Clearly, a strong and engaged membership is critical to our success. What isn't as clear are what membership goals are appropriate for our association. In 2005, we set some very ambitious goals and objectives that we believed would be important to the NSRWA's success, one of which was a hefty growth in our membership rolls. While we can all be proud of achieving the major policy successes that plan envisaged, one thing that didn't come to pass was that membership growth. (Of course, five years ago few people saw the "Great Recession" coming - or the nose dive in the public's support for environmental issues.)

The NSRWA membership currently stands at approximately 1,100 households; from that we can reasonably extrapolate over 2,000 individual members. Those are important numbers to anyone assessing the influence of our advocacy efforts - say the potential impact of a letter-writing campaign. But is there a threshold credibility number that we need to attain?

One reason to strive for a substantial membership size is dollars and cents. Did you know that roughly half of our operating budget is funded by members' dues and gifts - and events that are substantially member-supported? (The other major source is grants from governmental and private sources.) We are a pretty tight-fisted organization and have done well in keeping expenses under control; changes in revenue directly impact the scope of our mission-related programs.

It is also important to make a qualitative appraisal of our membership strength - to look beyond the numbers. In this respect, we are extremely fortunate. We have many highly committed members who have not only supported the NSRWA financially for many years, but also donated countless hours of volunteer time and shared their expertise. Indeed, many of you have held leadership positions in the association. It is a pretty fair bet that when the planning results are shared with you later this year, they will include specific recommendations to broaden the involvement of our members.

Yours,
Russ Haskell

Blue Communities Campaign Progress

Thank you to the Bilezikian Family Foundation

The NSRWA was granted a \$10,000 matching challenge! The Foundation will match any new donations to the association compared to 2010 but only before July 5th. So if you are not a member now is the time to become one or make an additional donation since it will be matched 100%!

Protecting Land on the South River

This summer if you drive down Rte 139 you should start to see work beginning to transform a patch of pavement, trash and invasive species into a park abutting the South River! In order to minimize the costs to the town of Marshfield, volunteers from the NSRWA have already offered to help with building the boardwalk that will bring visitors out to experience the South River. We will also need volunteers to help cut back invasive species along the banks of the river. And the town has enlisted volunteer carpenters to aid them in building a shade shelter at the park. If you have some time and skills to spare to help with the park please contact Samantha Woods at 781-659-8168 or Samantha@nsrwa.org

Restoring Flows in First Herring Brook

As mentioned in the cover story the NSRWA has been working with the town of Scituate to implement a lawn watering restriction. Modeled after the city of Franklin this would restrict lawn watering from Memorial Day to Labor Day to one day a week, before 9 am or after 5 pm. If the restriction is approved by the Selectmen, the NSRWA, in partnership with the Water Resources Committee and with funding from the Division of Ecological Restoration, will then send an educational flyer to all water customers regarding the new rule. We also are working to develop an operational plan for the water department to release streamflow and still safeguard the town's water supply.

Partnering with the YMCA to Remove a Dam on the Third Herring Brook

In 2010, the Hanover YMCA's dam failed on the Third Herring Brook and breached in heavy spring rains. The impoundment behind the dam known as the Mill Pond was small, shallow, and surrounded by private property with no public access to it and straddles both Hanover and Norwell as the brook is the town line. The breaching of the dam raised awareness to the YMCA of the safety issues and the liability that this now failing dam represented and required that the YMCA find a permanent solution.

In 2003, the YMCA had attempted, with our support, to remove this dam after they became aware of its poor condition and the cost of repairs-which were more than twice the cost of removing the dam-excluded rebuilding it as an option. Unfortunately, they were denied a permit to do so by the Norwell Conservation Commission. At that time dam removal was relatively new in Massachusetts; the commission was concerned about the loss of the pond habitat, and there were Norwell abutters to the pond who vocally opposed its loss.

The focus of our current efforts has been to provide technical assistance with grant writing to help fund the removal of what remains of the Mill Pond dam at the YMCA and restore this section of the Third Herring Brook to its natural streambed. If we are successful in assisting the YMCA this would be the first dam removal project in our watershed.

Thank You to New or Renewing River Guardian Circle Members

Individuals

Kezia Bacon-Bernstein
David and Lynn Deghetto
Mary Eliot
Herb and Pauline Emilson
Pamela Kohlberg
Deb and Bruce Lenahan
Russ and Laura Haskell
Bill Stanton and Lisa Lenon
Andrea Miller
Carol Sullivan
Al and Julie Uhler

Organizations and Businesses

Billington Sea Kayak
Sheehan Family Foundation
Whole Foods



Shop at
Whole Foods on
Wednesday, April 6

5% goes to benefit the North and South Rivers Watershed's 5th Grade Water Education Program Teaching children to be stewards of their local water resources. Watch a video of the program in action, visit www.nsrwa.org



Restoring Nature's Streamflow, continued from page 1

water used, the more that can be released by the water supplier for fish passage and river habitat.

This summer we hope to see a lawn watering restriction enacted that will limit lawn watering to one day a week, before 9 am and after 5 pm from Memorial Day to Labor Day. We also will be working with Scituate's water supply on an operational plan for streamflow releases that is both protective of the town's need for water and will allow for streamflow downstream of the dams. In the longer term, depending on how much water can be conserved the town will still need to seek additional new water resources to supplement their existing supplies.

The town has also agreed to pay for fish ladder redesigns since the current fish ladders on the dams do not work, were poorly designed and have high flow requirements to operate. Once we determine how to rebuild the fish ladders we will work with the town to find the financial resources to construct them.

Comprehensive structural inventory

NSRWA is beginning a comprehensive and long-term program to remove or upgrade dams and culverts across the watershed. We have received a \$10,000 grant from the Massachusetts Bays Program to support the first phase of this campaign, an inventory of structures on the major streams and tributaries, and in the coastal watersheds.

During 2011, with the help of several interns - Robbie Canning and Sarah Frazar who are highlighted on page 12 - we will conduct field work to locate these structures, assess their condition, and identify those that are improperly sized or for other reasons may fragment the continuity of the river habitat.

This data will be correlated with information from town DPW's and Conservation Commissions on flooding and other problems to determine priorities for river restoration projects. We are also assessing future road projects to determine

the likelihood of dovetailing them with upgrading culverts that are problems for our rivers.

Our findings will then be discussed with each town, and we will be in a position to develop with the towns long-term strategies for removing, upgrading, or replacing structures. In addition to restoring habitat, we believe that creating healthier more resilient rivers and replacing outdated infrastructure will allow our rivers and communities to better withstand climate change and the extremes in precipitation patterns that we are already beginning to experience.

by Samantha Woods

Upcoming Citizen Scientist Volunteer Opportunities

Top Five Reasons to Volunteer for the NSRWA

- 1) You will have an excuse to get outside.
- 2) You will learn new skills.
- 3) You will meet other cool people.
- 4) You can feel good about yourself.
- 5) Your rivers need you!

Third Herring Brook Gage Reading

Go with the Flow - help us to monitor flows in the Third Herring Brook

Timing: Any time of day (that you can see!), year round

Location: Any of our three sites on the Norwell/Hanover town line - River Street/Broadway, Mill Street, and Rt. 123/Jacob's Pond

How long will it take?: Quick (< 1 minute once you get there)

Training: Contact Sara Grady at 781-659-8168 and stop by the NSRWA office for an info packet and datasheet.

Herring Counts - One Fish Two Fish

Timing: April 1- May 31, within one or more "time blocks" (7-11am, 11am-3pm, 3-7pm), 3-7 times a week (more is better). You don't have to do it all - the more volunteers the more we can spread out the workload!

Locations: Herring Brook, Pembroke; South River, Marshfield; Bound Brook, Scituate

How long will it take?: 5 minutes of counting fish each time you stop.

Training: Contact Sara Grady at 781-659-8168 or email sara@nsrwa.org

River Watch Water Quality Monitoring

Timing: June 8 - August 22, every other week (June 8, June 23, July 7, July 21, August 8, August 22)

Location: Throughout the North and South Rivers Watershed (requires driving or we will partner you with someone who can drive)

How long will it take?: Each sample event takes about 4 hours to complete all stations. You can sign up for one date or multiple dates.

Training: Training session on June 8, at 8:00am at the NSRWA office. If interested in volunteering please contact Paula Christie at 781-659-8168 or email paula@nsrwa.org

Annual Report 2010



Rocking The Rivers: 40 Years of Saving the Rivers Together

In 2005 the NSRWA charted what we wanted to accomplish through 2010 for protecting land, advancing education on river stewardship and restoring water quality and habitat. 2010 saw the culmination of many of our collective efforts - thank you! As we embark upon our next strategic planning effort, we thought it would be useful to look back at what has been accomplished over the last decade.



Aerial of North River with recently protected Goggin Parcel on right.

Protecting Land to Protect Water

From direct conservation restrictions and acquisitions on the rivers to supporting Community Preservation in watershed towns, NSRWA has been a force for ensuring that land critical to our rivers is protected:

- An additional 250 acres saved in perpetuity along the North River - 50 of which was the Goggin parcel this past fall.
- 150 acres on the South River protected.
- 970 acres of land protected in watershed towns using Community Preservation Act Funds. Over \$18 million of Community Preservation funds spent on open space protection.
- Passed (and retained) Community Preservation in Scituate, Norwell, Pembroke, Marshfield, and Hanover.
- Supported through advocacy the acquisition and development of the future South River Park and worked with Marshfield to acquire a \$250,000 grant to pay for half of the construction costs.

Clean Water for Shellfishing

NSRWA has long worked to restore water quality and reduce pollution from stormwater and other sources, and we have made significant advances for our rivers this past decade. Given the past several years of clean water quality data, and if samples remain

clean this winter, we are very hopeful that the Division of Marine Fisheries will open the South River to recreational shellfishing soon.

Here are some highlights of our work for cleaner water:

- Provided education on Low Impact Development to recycle and clean stormwater by installing rain gardens in every South Shore community and demonstrations of porous pavers and swales in Pembroke.
- Passed a stormwater bylaw in Scituate.
- Passed No Discharge Designation for the rivers that prohibits boat waste from being discharged.
- Conducted intensive bacterial sampling along the South River in Marshfield to identify pollution sources and measures to fix them.



Brochure developed by the NSRWA to educate boaters on the No Discharge Area

Educating the Next Generation of River Stewards

Education is the foundation of a future healthy watershed. During the last decade the NSRWA has stepped up its efforts to reach youth and adults with river education programs.

- Over the last decade more than 500 children have participated in our River Adventures Camp where children learn not only how to navigate our rivers safely but also gain an understanding of our rivers' ecology and the threats that face them.
- In 2003 the NSRWA started its Greenscapes program to educate homeowners on how to have a watershed friendly yard. Funded in partnership with the towns, we sent educational flyers to over 80,000 households for several years, hosted free workshops for homeowners, developed *Greenscapes.org* - and hosted a water challenge last summer to promote water conservation.

• Lastly, we have entered the schools in our watershed and beyond with our Water All Around You program. Geared towards 5th grade, this program educated 1,575 kids in 10 schools about their local water resources in 2010, with the goal of teaching them to be future stewards of their local waters. This year we will do at least that much again: our ultimate goal is to reach every 5th grader within our watershed every year.



River campers enjoying a swim!

Restoring Streamflow and Herring

Over the last decade we have monitored streamflow, stream temperature, and herring populations so we can restore our river system and the river species that have been in decline.

- The First Herring Brook streamflow monitoring effort led to a partnership with town, federal and state officials to restore streamflow and herring to the First Herring Brook. From 2007-2010 we met regularly with our partners to develop a dynamic model of the brook system and the impacts of withdrawals that allowed us to test restoration scenarios. In 2010 we presented our findings which showed that with new fish ladders and through a combination of new water supply and water conservation we can restore streamflows in the brook to support herring and other aquatic creatures.
- Since 2008, through the help of volunteers, we have monitored streamflow in Third Herring Brook. In 2010 we studied the health of Third Herring Brook and its impoundments and began talks again with dam owners on stream restoration.
- Recently we installed streamflow and temperature gages in the South River and Herring Rivers to monitor how streamflow and temperature may be impacting our relatively healthy herring runs.
- Towards the end of 2010, in collaboration with our partners at the Mass Bays program, we began a project to assess the condition of the streams, and the infrastructure within them such as dams and culverts. We will then prioritize where the best opportunities exist to reconnect fragmented stream habitats.

In addition to all of our environmental programs on behalf of the rivers, we have hosted walks, paddles, the winter Water Watch lecture series, the Watershed Expo, River Clean Up day and the Harvest Moon Feast, ... just to name a few.

And to top off 2010, we celebrated our 40th anniversary! If 2011 is anything like 2010 we will again be happy to report that indeed progress is being made towards a better, healthier river system. Famous anthropologist Margaret Mead was quite right when she said "Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it's the only thing that ever has."

We hope you will join us this year at one of our many fun events to enjoy our rivers and become stewards of them. Please visit our website nsrwa.org and sign up to our email list to be kept up to date on our events and work for the rivers. Let's make 2011 the year you get on the rivers!

Samantha Woods, Executive Director

NSRWA MEMBERS AND SUPPORTERS • 2010

River Guardian \$2,500+

Anonymous
Herb & Paulie Emilson
Sheehan Foundation
Paul & Netta Vercollone

River Guardian \$1,000 - \$2,499

Anonymous
Anonymous
Mark DiRico
Craig & Daniel Hannafin
Valmai Hilton
Richard & Jackie Leach
Deb & Bruce Lenahan
Doug & Sarah Lowry
Andrea Miller
Cap Vinal

River Guardian \$500 - \$999

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Chris Bernstein
Mark & Joell Bianchi
John & Linda Bodenmann
Donna Burrell
Jane Eggerstedt
Paul Coolidge
Kathleen & David Donahue
Mary Eliot
Harold Flight
Russ & Laura Haskell
Alan & Janet Holbrook
James Hughes
Peter & Julie Kelly-Detwiler
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Bill Stanton
Lisa Lenon
Carol Sullivan
Samantha Woods
Lanny Day

Business River Guardians \$500+

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NORTH AND SOUTH RIVERS WATERSHED ASSOCIATION

Statement of Financial Position

Balance Sheet	2010	2009
Total Assets	\$ 484,543	\$476,846
Total Liabilities	\$ 6,277	\$ 14,874
Net Assets	\$ 378,487	\$ 389,936
Total Liabilities and Net Assets	\$ 484,543	\$ 476,624

Statement of Activities 2010

Revenues		
Restricted Grants	\$ 196,748	\$ 160,140
Unrestricted and Restricted	\$ 93,160	\$ 77,885
Donations		
Program/Events	\$ 26,815	\$ 32,377
All Other	\$ 15,592	\$ 30,300
Total Revenue	\$ 332,315	\$ 300,702
Expenses		
Payroll	\$ 209,594	\$ 182,425
Contract and Professional		
Services	\$ 36,645	\$ 48,281
Occupancy and Utilities	\$ 8,855	\$ 9,258
Printing and Postage	\$ 18,186	\$ 20,322
All Other	\$ 49,808	\$ 51,865
Total Expenses	\$ 323,088	\$ 312,155
Net Revenues	\$ 9,227	\$ (11,449)

Treasurer's Report

The year 2010 saw our organization's financial health improve over the previous year. Membership dues increased 26% in no small part due to the successful completion of the River Guardian Matching Challenge. Our number of members has remained stable over the previous year, at approximately 1,100 -- though it has declined overall from our height of 1,500 in 2005.

Our Endowment fund increased 10.24% this past year with a value of \$70,453 as of January 26, 2011. This represents an increase of \$6,546 over the value as of January 20, 2010 which was \$63,907. Our present asset allocation is 55% in equities, 35% in bonds, and 10% in cash. We continue to review our asset allocation and keep in mind the prudent man rule, that we will "act with prudence, discretion, intelligence, and regard for the safety of capital as well as income." The growth of the Endowment Fund will contribute to the long term financial stability of our organization.

We are most thankful for the generous \$5,000 bequest from long time member the late Richard Clay of Scituate. This bequest will be available to us shortly and will be added to the Endowment Fund.

We are grateful for all financial support, large and small, from our loyal members who support our mission to preserve, restore, maintain and conserve in their natural state, the waters and related natural resources with the watershed.

Thank you for your generous support!

Richard E. Leach, Treasurer

NSRWA MEMBERS AND SUPPORTERS • 2010

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 Paul & Kathryn Kelly
 Wallace & Barbara Kemp
 Dave & Edie Kirk
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 Leonard & Elyse LaForest
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Jean Ekstrom	Joseph LoSciuto	Robert & Julianne Salamone	Tanglewood Club	<i>any left off the list.</i>
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			Mill Wharf Restaurant	

continued, next page

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NSRWA's Schedule of Outdoor Activities

Hidden Gems Near the Rivers WALK SERIES

Allegheny ant mounds, carnivorous plants, shrubs poisonous to the touch, how about a bog that quakes? Or identifying fireflies by their distinct flash pattern under a starry night? Or seeing a spectacular view of the ocean from a very special, private vantage point. Many surprises are in store from our walk leaders who will show us things we've never seen before on the Hidden Gems Near The Rivers Walk series. Each walk is free for members - \$5 for non-members. Pre-registration required. To find out the details of each walk, including time and meeting place, and to register, go to www.nsrwa.org

Sunday, May 15 - George Anderson Forest, Rockland

*George Anderson (namesake of the forest) and
Julianne Mehegan (fern and plant specialist)*

Watch spring come into bloom, including a huge collection of different fern types, from the sixteen bridges on this wetland trail.

Sunday, June 12 - Black Pond Bog Walk

Steve Ivas, wetland scientist

Unusual and unique plant species, including insect-eating plants and poisonous shrubs are only some of the mysteries of Black Pond Bog. The bog actually quakes - amazing to experience.

Sunday, June 19 - Firefly Walk

Don Salvatore, Museum of Science educator and firefly expert

Fireflies don't just flash their lights for no reason - they are either trying to attract the opposite sex or playing tricks on them. You'll discover that each firefly has its own identifiable flash pattern.

Sunday, July 17 - Willowbrook Farm

Don Salvatore, Museum of Science educator and abutter of Willowbrook Farm

Allegheny ant building mounds, rare Shagbark Hickory trees, and a stand of Musclewood trees are just the beginning of the wonders that await you on trails that meander through old fields and dense woods. An observation tower allows expansive views of the Indian Head River rare freshwater tidal marsh - a habitat of global significance.

Sunday, September 11 - Fourth Cliff Walk

Paula Christie - Assistant Director, NSRWA

This walk in an area usually not open to the public is all about views. Take advantage of this special opportunity to get a bird's eye view north to Third Cliff, Trouant's Island, the Spit, the coastline to Rexhame Beach and of course the Atlantic Ocean.

Paddling and Camping Opportunities for Members!

To find out the time, place and more details about each of these fun paddles or other outdoor activities go to our website, www.nsrwa.org. Registration required in advance for every paddle through our website.

Sunday, May 29 - Stand-Up Paddle Instruction

Learn how to stand up paddle - Stand up paddling offers a great workout and is the newest way to enjoy the North River. 1 1/2 hour course includes full instruction on technique and safety. All equipment is provided, including wetsuits, if needed. *Luminate Surf and Skate* - \$50/member - non-member \$75 (includes NSRWA membership)

Saturday, June 4 - Intro to Kayaking

Whether you are a novice or want to brush up on your kayaking skills, this 3-hour course is for you. On-land and in-water instruction in basic kayaking techniques and safety. Kayaks and equipment provided. Children welcome. *Coastal Kayak Educators* - \$35/member - \$60 non-member (includes NSRWA membership)

Sunday, June 19 - Father's Day Paddle

This afternoon paddle will go from Union Street to Couch Beach and back. Treats in honor of Father's Day will be provided by the NSRWA on Couch Beach. Must have own equipment; PFD mandatory. \$10 members - \$35 non-members (includes cost of membership) Kids 10 and under - free

Saturday, July 2 - Scenic Tour of the North River

Two-hour paddle featuring scenic sights along the North River. Ideal for novice paddlers. Kayaks and all equipment provided. *Coastal Kayak Educators* - \$35 per person - NSRWA members get first chance to sign-up

Sunday, July 3 - Intro to Kayaking

3-hour course. On-land and in-water instruction in basic kayaking techniques and safety. Kayaks and equipment provided. Children welcome. *Coastal Kayak Educators* - \$35/member - \$60 non-member (includes NSRWA membership)

Friday, July 15 - Sunset/Moonlight Paddle

We are bringing back our most popular paddle ever. Watch the sun set and the moon rise as we paddle from the Driftway to the Spit. \$15/member - \$40 non-member (includes NSRWA membership)

Saturday/Sunday, August 13/14 Overnight at Couch Beach

You bring your tent; we provide the food and kayaks! On-land kayaking skills lesson, then on-the-water expeditions. Bbq on the beach. Breakfast served in the morning, with an early morning paddle. *Coastal Kayak Educators* - \$65 per person or \$55 per person in a group of 4 - non-members - add \$25 for NSRWA non-members

Saturday, August 27 - Scenic Tour of the North River

Two-hour paddle featuring scenic sights along the North River. Ideal for novice paddlers. Kayaks and all equipment provided. *Coastal Kayak Educators* - \$35 per person - NSRWA members get first chance to sign-up

Other Outdoor Opportunities

To register visit www.nsrwa.org or call 781-659-8168

Sunday, May 14 at 9 am Flyfishing for Trout on the Indian Head River

Join the NSRWA and Trout Unlimited for a fun morning learning the art of flyfishing. We will meet at Luddam's Ford Park in Hanover to demonstrate techniques, show you the best spots for trout fishing and provide some flyfishing equipment to try. This event is free and open to members and nonmembers but space is limited. Register online or call.

Sunday, May 22 at 3 pm Learn How To Go Clamming!

Join us to learn where and how to legally harvest shellfish on the North River. This event is free and open to members and nonmembers but space is limited. Register online or call.

June 18-September 10 Yoga at the River's Edge

Every Saturday morning at different locations along the rivers, June 18 - September 10, 8:30 - 10 a.m. For locations visit nsrwa.org or find us on Facebook Yoga at the River's Edge group.

\$10 per person for NSRWA members,
\$12 non-members.

No registration is required.

Great River Race SAVE THE DATE Saturday, July 30

Fun for the whole family! Join us for this annual 7-mile paddling event on the North River. Registration and more details will be available on our website starting in mid to late June.

Race starts 11:30 a.m.



RiverWatch

THE NORTH AND SOUTH RIVERS WATERSHED ASSOCIATION, INC.
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- Restoring Nature's Streamflow
- Annual Report 2010
- 72-mile Wampanoag Fundraising Paddle
- Outdoor Activities 2011

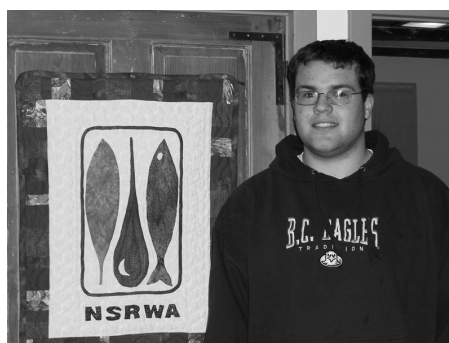
Meet Our Interns!

Interning with the NSRWA is a great way to potentially earn credit through your school and learn about protecting our environment. If you are interested in interning or volunteering please visit our website and fill out our volunteer application form.

Thank you to all our interns for helping us make a difference!



Sarah Frazar - Sarah recently graduated from Providence College with a degree in Biology and is now living in Duxbury. Her interests lie in environmental education and restoration. Sarah spends 2-3 days each week helping with our in-school Water All Around You program and collecting field data on culverts in our watershed.



Brett Muirhead - Brett, a junior at Hanover High, is interning with us and earning credit for his time. Every Thursday afternoon Brett can be found working on a mailing, doing field work or helping us with organizing one of our many events!



Robbie Canning - A longtime resident of Marshfield near the South River, Robbie joined us for his January break from Colby College and earned credit at the same time. Robbie is a junior majoring in Science, Technology and Society. While working with us he helped to gather information on our stream restoration prioritization project.