

THE CATALYST

SLIPPERY ROCK WATERSHED COALITION MONTHLY ACTIVITIES UPDATE

THIS MONTH'S MEETING: Thursday July 10th at 7pm Jennings Environmental Education Center, pizza and pop will be provided. 6/12/03 Attendance: S. Busler, C. Cooper, M. Dunn, T. Danehy, D. Johnson, V. Kefeli, F. Brenner and W. Taylor

Stream Restoration Interns Conducting Passive Treatment Research In Slippery Rock Headwaters



For the summer of 2003, three interns were selected to work with **Stream Restoration Incorporated** examining the effectiveness of passive treatment systems within the headwaters of the Slippery Rock Creek Watershed. **Candace McClure** (Top Left), a 2003 graduate of Grove City College is this summer's **US Office of Surface Mining** intern. She works with those in the office of SRI and out in the field with fellow interns



Emily Coughlin (Top Right) and **James Dunne** (Center). Emily will be a senior biology major at Grove City this fall; James, a junior, is pursuing a chemistry degree. Together the three are working on the development of a passive treatment system monitoring program. Each month they will collect samples from multiple passive



treatment systems within the watershed. They will then analyze the samples to determine the effectiveness of the different passive treatment systems as well as individual components James and Emily will continue the project throughout the next school year, while Candace will be leaving to attend graduate school at the University of Pittsburgh in the fall.

Stream Restoration Incorporated Offering Technical Assistance

In August of 2002, Stream Restoration received a **Technical Assistance Grant (TAG)** from the **PA DEP Growing Greener Program**. The grant provides funding to assist watershed groups develop Operation and Maintenance (O&M) Plans for passive treatment systems. Since the early 1990's, many passive systems have been installed throughout Pennsylvania to treat abandoned mine discharges. While these treatment systems have made significant improvements to the streams of the Commonwealth, many of these systems were put in place without consideration of O&M. While passive systems require much less maintenance than a conventional chemical treatment plant, they are not "No Maintenance" systems.

Technical assistance for development of individual Passive Treatment System O&M Plans is available to qualified governmental agencies, watershed organizations, and nonprofits through Stream Restoration Incorporated, which has formed a public-private partnership effort that includes the PA DEP, BioMost, Inc., Hedin Environmental, and Earthtech. To request assistance or for more information contact Stream Restoration Incorporated at 724-776-0161 or Email at sri@streamrestorationinc.org or visit the website at www.streamrestorationinc.org.

Coloring Book Notes

How rewarding to have **The ABCs of Our Watershed** enjoyed by so many!!! Over **2000 copies** have been distributed!!! Much to our delight was a recent report by the past President, **Fred Johnson**, of the **Rollin' Oldies of Southwest PA** that the book was used in a coloring contest by about **30(!!!) kids** during the car club's annual show!!! Our appreciation again to **Chris Treter**, the book's developer and illustrator!!!

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Mike Hollabaugh (right) and **Jay Adams** (left) from **McKay & Gould Drilling Co.** work with us in the installation of monitoring wells. Our efforts are always more successful when we work together and combine our experience!!! Mike was also the driller, who helped us install over 15(!!!) piezometers at the Erico Bridge Abandoned Mine Restoration Area. Thanks **Mike and Jay!!**

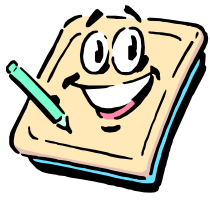
5th Annual PA Conference on Abandoned Mine Reclamation

The 5th Annual PA AMD/AMR conference was held May 15-17, 2003 at the Lackawanna Heritage Valley Center in Mayfield, PA located in the Anthracite coal region. **Cliff Denholm**, Stream Restoration Incorporated, attended the conference to participate in the breakout sessions, share information and experiences, and to offer Technical Assistance to watershed organizations to develop Operation and Maintenance Plans for passive treatment systems. Photos of the construction of the De Sale Phase I system along with water quality data was used in the VFP/SAPS breakout session as an example of how a vertical flow pond is constructed and used in conjunction with other passive components to treat abandoned mine drainage. PA DEP Secretary **Kathleen McGinty** was the Keynote Speaker who had the opportunity to address how the PA DEP under the Rendell Administration would address abandoned mine issues including the use of mine pools as an industrial source of water that would be treated in the process, effectively turning a liability into an economic resource. Following the keynote address, the evening ended with tie-dyeing with AMD and listening to musician/singer/songwriter **Van Wagner** who performed a number of songs about coal mining and the beauty of Pennsylvania. Cliff had a great time meeting and talking to so many wonderful people involved in abandoned mine reclamation and looks forward to next year's event that is expected to be held in western Pennsylvania.

“Talkin’ Trash”

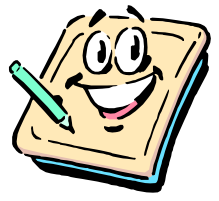
It was time, once again, to “unclutter” our mile of I-79. On Friday, June 27th, **Charles Cooper** (left), **Cliff Denholm** (right), and **Margaret Dunn** (not pictured) enjoyed a cool, cloudy, summer day and got some much needed exercise!! We are also learning that the type of trash changes seasonally: cold weather - abundant coffee cups; hot weather – numerous cold drink containers!! The next Adopt-A-Highway Trash Pickup is scheduled for Friday, August 15th. If you would like to participate contact us at (724) 776-0161.





The KIDS Catalyst

SLIPPERY ROCK WATERSHED COALITION FUN ACTIVITY



Summer Animals Crossword Puzzle

Summer is a great time to see lots of neat animals, many in your own backyard! Write the name of the animal described with each clue in the correct numbered boxes, and when you are finished you will spell out the name of the official state fish of Pennsylvania! Return your finished crossword puzzle to us to receive a free gift certificate!

1. The only mammal that can fly; loves to eat insects
2. Many of these small mammals live in trees; they store up nuts and seeds during the summer to eat in the winter
3. A common backyard bird, it hops about and eats worms; males have an orange breast with a black head and gray back
4. Small mammal that lives mainly underground and digs for its favorite food: earthworms. Its eyes are hidden and its vision very poor
5. The redheaded and downy are two types of these birds; they use their beaks to drill holes into trees for a place to live
6. These brown colored insects are very common in summer lawns; they make sounds like "chirps" when they rub their legs together
7. These insects, also known as "lightning bugs" have special bodies that can produce light
8. Most of these birds eat at night, swallow their prey whole, and regurgitate the fur and bones as a pellet; call sounds like "who, who"
9. This is the smallest bird; it is attracted to red flowers and uses its long, needle-like beak to extract nectar from flowers; its eggs are the size of peas, it beats its wings very fast, and can fly backwards
10. This mammal has a small tail, long ears, likes to eat clover, and can jump 16 feet and run up to 35 MPH

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The _____ is Pennsylvania's state fish!

Name _____ Age _____

Address _____



Slippery Rock Watershed Coalition c/o Stream Restoration Incorporated
A PA Non-Profit Organization
3016 Unionville Road
Cranberry Twp., PA 16066

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Thanks to The William & Frances Aloe Charitable Foundation, Environmentally Innovative Solutions, LLC, Dominion Peoples, Amerikohl Mining, Inc., Quality Aggregates Inc., Bio-Most, Inc., Allegheny Mineral Corporation and PA DEP for their support. For more information contact: Slippery Rock Watershed Coalition, c/o Stream Restoration Incorporated (PA non-profit), 3016 Unionville Road, Cranberry Twp., PA 16066, (724)776-0161, fax (724)776-0166, sri@streamrestorationinc.org, www.srwc.org. July Distribution: 1056 copies

Highlighting Other Partnership Efforts (HOPE!)

Dunkard Creek Watershed Restoration

Way down in Greene County, located in the far southwest portion of Pennsylvania, many, many partners are working together not only to install innovative passive abandoned mine drainage treatment systems and to create unique wildlife habitat, but also to incorporate the restoration effort into comprehensive education and outreach programs for all ages!!! The **Greene County Watershed Alliance** and **Stream Restoration Incorporated** have obtained funding from the **PA DEP Growing Greener** program and the **US EPA Watershed Initiative** program to implement these restoration and education projects in the Dunkard Creek Watershed, which encompasses approximately 150,000 acres divided almost equally between Greene County, PA and Monongalia County, WV.



SAVE THE DATE!!!! On **Friday, August 1, 2003**, there will be kick-off celebrations, a sign unveiling and a groundbreaking, at the site from about 9:30AM to 2:30PM!!!! All are invited! Come when you can! We would love to see you there!!! Let us know if you can make it, as we want to have plenty of hearty snacks!! Contact us for directions at shallowcreek@alltel.net, tdavin@greenepa.net, sri@streamrestorationinc.org.

Partners to-date: H. Mathews(landowner), US Environmental Protection Agency; PA Department of Environmental Protection; WV Department of Environmental Protection; Greene County Watershed Alliance; Greene County Conservation District; W. PA Watershed Program; Dominion Foundation; Aloe Charitable Foundation; Downstream Alliance; Botanical Society of W. PA; Bobtown-Dunkard Reading Center; Jennings Env. Ed. Ctr.; Environmentally Innovative Solutions, LLC; Quality Aggregates, Inc.; 241 Computing Services; Andrianos Arts; Aquascape; BioMost, Inc.; Brenner Ecological; Earthtech; G & C Lab.; WOPEC; Wayne Lumber Co., Forever GreeneHouse; Eagle One Aviation; Bobtown Market; Pecjak's Sunoco; National Aviary; Pittsburgh Voyager; Bobtown Rod & Gun Club; Cornerstone Genealogical Society; Ducks Unlimited; Dunkard Creek Watershed Assn., Inc.; Humane Society of Greene Co.; Mason-Dixon Bassmasters of WV; Mason-Dixon Historical Park Assn.; PA Clean Ways of Greene Co.; Raymond Proffitt Fnd.; Shannonpin Civic Club; Urban Wetland Inst.; WPCAMR; West Greene Lions Club; Wheeling Creek Watershed Conservancy; PA Rep. Bill DeWeese; PA Sen. Barry Stout; Monongalia Co. (WV) Comm.; US Sen. Rick Santorum (PA); Co. of Greene Dept. of Planning & Development; Dunkard Twp. Supervisors; Greene Co. Commissioners; USDA Forest Service; USDA NRCS; PA Fish & Boat Comm.; PA Game Comm.; CONSOL Energy Inc.; Gloria's Ceramics; Waynesburg Milling Co; School Districts - Carmichaels Area, Central Greene, Jefferson-Morgan, Southeastern Greene, West Greene; Waynesburg College; WVU National Drinking Water Clearing House; Wheeling Jesuit College; Stream Restoration Inc.; and others.