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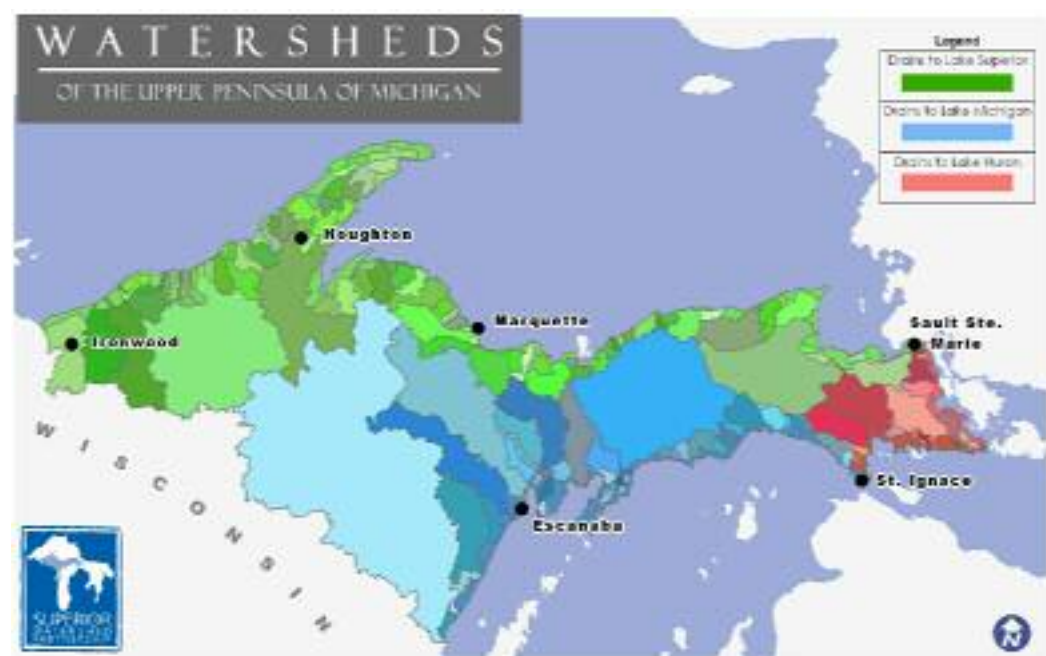
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- Natasha Koss, Membership Coordinator
- Vicki Baldini, Grants Administrator
- Cameron Fuess, GIS Specialist

**INTERNS:**

- Zoe Weingarten
- Chris West



## Lake Superior Coastal Viewer

Have you ever wondered what the mouth of the Yellow Dog River looks like? It's not easy to get there on foot, but anyone can travel there "virtually" by way of the Lake Superior Coastal Viewer. A bird's eye view of the entire Lake Superior shoreline in Marquette County and now Luce County is accessible with this unique feature on the SWP website. Aerial shots are available at both 500 and 1000 foot elevations. The Coastal Viewer provides unique oblique angle photographs of every inch of shoreline in these counties and provides a valuable land use planning tool for landown-

ers, local units of government, and regulatory agencies. This year the SWP will be expanding the Coastal Viewer by adding the remaining Lake Superior coastal counties with funding from the Michigan Department of Environmental Quality Coastal Management Program. The new and improved Coastal Viewer will also provide GIS map layers of important site features including soil types, wetlands, aerial photography and much more! The Viewer can be accessed from the SWP website at [www.superiorwatersheds.org](http://www.superiorwatersheds.org). Watch for the new viewer later this summer!



# news



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 Marquette, MI 49855  
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**Inside this issue:**

- Highlights in Watershed Protection and Restoration
- SWP Annual Meeting
- Summer Youth Corps
- Enhancing Tourism in the Eastern U.P.
- SWP Members
- Riparian Buffers
- Lake Superior Coastal Viewer



## Confronting Climate Change in the Upper Peninsula

The Upper Peninsula is not immune to the impacts of climate change. Scientists have already confirmed gradual increases in ambient air temperatures, dramatic increases in Great Lakes water temperatures, loss of rare plant species and changes in animal distribution, habitat and migration. This could be interpreted as a doom and gloom scenario, however, there is a positive side. Our society is waking up. We are beginning to see how our actions can also be part of the solution.


During the month of April in honor of Earth Day, the Superior Watershed Partnership in cooperation with Earth Keepers is asking U.P. residents to just stay home! In past years, Earth Keeper events were focused around getting communities to bring in household hazardous waste, old electronics and unwanted pharmaceuticals. This year, the Earth Keeper event is coming to you!

The SWP has developed a simple checklist to help participants in conserving energy and water at home. The checklist will be available to the public and distributed to all Earth Keepers congregations (Catholic, Lutheran, Methodist, Presbyterian, Episcopal, Jewish, Buddhist, Unitarian, Baha'i, and Quaker) and highlights "No Cost" and "Low Cost" steps to reducing energy consumption. This SWP program covers all fifteen counties and almost every community in the U.P. Participants will receive two copies of the checklist (one to keep and one to fill-out and return).

Simply take the checklist home, walk through the house (involve everyone in the family) and start checking off any energy conservation actions that you have recently taken or that you will implement in the near future. Then, during the month of April, return a completed copy to your Earth Keeper congregation or directly to the Superior Watershed Partnership. The SWP will then compile the data and calculate the total carbon reduction (in tons) for the U.P. Based on the success of past Earth Keeper events it is anticipated that this month-long event will also break national records for pollution prevention! For more information contact the SWP at 906-228-6095 or [www.superiorwatersheds.org](http://www.superiorwatersheds.org) or by mail: SWP 1030 Wright Street, Marquette, MI 49855.

Want to go a step further? During the month of April consider purchasing a Michigan Green Home Energy Kit! Each kit is a simple, low-cost way to jump-start your own home energy conservation project and helps to support future Earth Keeper projects. There are two kits to choose from. Order your Energy Conservation Kits from Michigan GREEN. 1-888-473-5444 or go online to [www.michigangreen.org](http://www.michigangreen.org).

Don't throw old compact fluorescent light bulbs in the trash. Visit our website or call our office for information on proper disposal of old CFLs.





**Kit #1:** (8) 13-watt CFLs and (4) 23-watt CFLs  
 \$99<sup>00</sup> (1) Low-flow showerhead (1.5 gal/min)  
 (1) 3-in-1 Nightlight / Flashlight  
 (2) Faucet Flow Moderators  
 Wall Switch / Outlet Sealers  
 Rope Caulk  
 Energy Tips Booklet PLUS...  
**\$20 Contribution to Earth Keepers**



- Purchase a Kit -  
 Support Earth Keepers

**Kit #2:** (4) 13-watt CFLs and (4) 23-watt CFLs  
 \$59<sup>00</sup> (1) 3-in-1 Nightlight / Flashlight  
 Wall Switch / Outlet Sealers  
 Rope Caulk  
 Energy Tips Booklet PLUS...  
**\$10 Contribution to Earth Keepers**

## Highlights in Watershed Protection and Restoration

With the help of our partners, members and numerous volunteers, the Superior Watershed Partnership was successful in completing numerous priority protection and restoration field projects in watersheds across the Upper Peninsula.

### Salmon Trout River Watershed

The Superior Watershed Partnership completed the Salmon Trout River Watershed Management Plan and in winter 2007 the document was approved by the Michigan



Salmon Trout River

Department of Environmental Quality and Environmental Protection Agency. The Salmon Trout plan includes a comprehensive field inventory and identifies numerous habitat restoration projects. In addition, the plan provides recommendations for long term protection including prohibiting any sulfide-based mining. Plans for 2008 include continued water quality monitoring at previously estab-

lished sites and replacing a failing culvert on the East Branch of the Salmon Trout. Since 1999, the SWP has implemented on-the-ground improvements at 14 sites in the Salmon Trout River watershed, including replacing undersized and badly damaged culverts with clear span bridges and aluminum arch culverts. These projects restore stream habitat and significantly reduce sources of sediment impacting coaster brook trout and other fish and aquatic life. The Salmon Trout River Watershed Management Plan is available electronically at our web site [www.superiorwatershed.org/projects](http://www.superiorwatershed.org/projects). Thanks to the Great Lakes Commission and the Marquette County Road Commission for partnering with the SWP on this project.

### Two Hearted River Watershed

In 2007 the Superior Watershed Partnership completed a road/stream crossing inventory and watershed-wide assessment in the Two Hearted River watershed in Luce and Alger counties. A Geographic Information Systems (GIS) analysis of sensitive riparian areas was also completed in cooperation with The Nature Conservancy. This

information is currently being compiled for the Two Hearted River Watershed Management Plan that will be submitted to DEQ for approval in early 2008. Other plans for 2008 include water quality monitoring at seven sites in the watershed, evaluation of wetlands burned during the 2007 Sleeper Lake Fire, and participation in a River Festival at the Rainbow Lodge on Saturday June 21, 2008. Please visit our website or contact Geri Larson at 906-228-6095 for information about these and other upcoming events and to find out ways you can participate. Thank you to the Michigan Department of Environmental Quality Non-point Source Pollution Control Program for funding and the Nature Conservancy and the Lake Superior State University Fish and Wildlife Club for their assistance with the 2007 Two Hearted River watershed inventory work!

### Stream Restoration

Orianna Creek is a small urban trout stream that runs through the City of Marquette. In the summer of 2007, this stream was the site of a major stream restoration project. The project included removing an abandoned culvert that impacted fish migration and was a major



Orianna Creek culvert removal

source of sedimentation. With the cooperation of adjacent land owners and a grant from the National Fish and Wildlife Foundation, the culvert was removed improving important habi-

continued on pg. 3

## Enhancing Tourism in the Eastern U.P.

### Great Waters

The Great Waters is a unique sustainable economic development program developed by Northern Initiatives to highlight nature-based tourism opportunities in the eastern Upper Peninsula. A series of trail maps and guides and an interactive web site are available to assist visitors in planning their vacation based on local points of interest and available services. A visitor can go to [www.greatwaters.net](http://www.greatwaters.net) and learn about 33 different waypoints accessed by 3 primary driving trails along Lakes Michigan, Huron, and Superior. In addition the SWP has partnered with Northern Initiatives to provide visitors with an opportunity to get involved with the preservation of their favorite destination. Visitors can log onto [www.superiorwatersheds.org](http://www.superiorwatersheds.org) and share their experiences, download forms to conduct basic stream monitoring and inventory work, share a digital photo, and help us protect the watersheds of the Upper Peninsula.

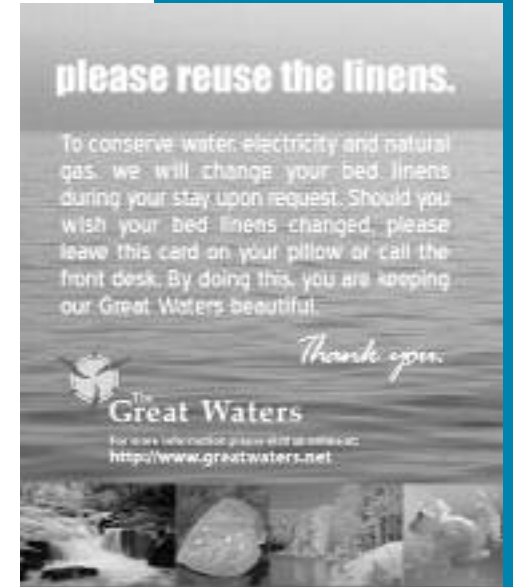
According to the Travel Industry Association of America, 43 million people in America are self-proclaimed "eco-tourists" and are willing to pay more to stay at a "Green" lodging facility. The SWP developed the Great Waters, "Doing Our Part" campaign where lodging facilities and other tourism businesses can participate to conserve energy, minimize water use, reduce waste and become a certified Green establishment. The Doing Our Part campaign features an energy and waste reduction checklist plus a series of water conservation materials for hotel and motel guest rooms. With these materials businesses can take simple, low cost steps to conserve energy and minimize water use and solid waste at their business.

The SWP also provides service outings for the local public and tourists where participants can assist watershed protection projects such as habitat restoration and trail reconstruction at Pictured Rocks National Lakeshore and Grand Island Recreation Area.

Thanks to People and Land and the Kellogg Foundation for their initial financial support. The SWP is currently seeking additional funding to sustain the Great Waters project and expand the program to other parts of the Upper Peninsula.

### Tahquamenon Scenic Heritage Project

If you've ever driven to Tahquamenon Falls State Park, you probably noticed the beauty and scenic character of Highway M-123. Within a 60-mile radius byway travelers can explore one of the Nation's Wild and Scenic Rivers, a historic 1848 Lighthouse, a river that once captured the heart of Ernest Hemingway, a phenomenal stopover for migrating birds, and one of the largest waterfalls east of the Mississippi. The Superior Watershed Partnership is part of a project to enhance nature tourism opportunities along the Tahquamenon Scenic Heritage Route (Highway M-123 North). This project, in Luce and Alger Counties, will develop and implement programs attracting visitors and building awareness of the significant historic and natural resources along the Route. The SWP will assist specifically with development of place-based watershed education programs. Project partners include Northern Initiatives, the Eastern Upper Peninsula Regional Planning and Development Commission, and the Michigan Department of Transportation.



Great Waters linen re-use card



If you're interested in helping support these projects or others please visit our website at [www.superiorwatersheds.org](http://www.superiorwatersheds.org) or call our office at 906.228.6095.

### Two Hearted River



# SWP Members

The SWP is very proud to have gained the support of over 150 members from throughout the U.P. The SWP Board of Directors and staff welcome you! As a regional leader in watershed protection, the SWP is proud to be a part of your yearly giving. Our office is located on Wright Street across from the campus of Northern Michigan University. Please stop in any time and see what we're up to!

## STUDENT

Michael Rotter  
Anne Teschler

## INDIVIDUAL

Keith Kepler  
Jolene Kokko  
Bill Robinson  
Ray Adamini  
Bobbe Almer  
Ron Annelin  
Dave Bach  
Karen Bacula  
Vicki Baldini  
Curt Bawden  
Karen Berg  
Norm Bishop  
Elizabeth Blichtfeldt  
Greg Borzick  
Judy Boyle  
Liz Brown  
Matt Calcaterra  
Lou Chappell  
Mary Conner  
Sam Crowley  
Terry Doyle and Kristy Dolye  
Don and Alice Fahrback  
Cary Gottlieb  
Roger Harbin  
Bonita and James Hay  
Norman Hefke  
Kaye Hiebel  
Richard Hosking  
Robert Jensen  
Craig Randal Johnson  
Evelyn Keller  
Linda Kersten  
Helen Koski  
Natasha Koss  
Elizabeth Kraft  
Carl and Ita Lindquist  
Carl Lindquist  
Beth Linna

Betsy Little  
Mindy Longton  
Angie Lucas  
Cynthia Lynne  
Claire Magee  
Pat Manley  
Mary McCourt Dufina  
Robert Mielke  
Sally Nannestad  
John Nowicki  
Christine Pesola  
Andrea Pernstienner  
Rick Pietela  
Dana Richter  
Jacob Silver  
Ted and Alice Soldan  
Mark Spoering and Cathy Chenette  
Jim Timmons

## FAMILY

Mike Boyce and Nancy Boyce-Mincemoyer  
Michael and Kirsti Brunet  
Dave and Marcy Cella  
Michael and Martha Conley  
Roger and Lucille Contois  
William and Mary Davis  
Eugene and Jean Elzinga  
Daniel Emmendorfer and Christine Zenti  
Frank and Laura Farwell  
Chris Fries  
Tom and Gail Griffith  
Carl and Lynne Hammerstrom  
Steve and Valerie Hammond  
Howard and Suzanne Harding  
Cheryl Hill  
Bob and Susan Holtzman  
Don Lenef and Joy Ibsen  
Sarah and Tim Janda  
Jim and Barb Kidder

Daniel Korhonen  
Paul and Zhuang-Zhong Lehmborg  
Tom and Kathy Leone  
Tom McManus  
Gerald and Jane Mogavero  
Terry and Paula Monson  
Hilton Moore and Amy Fletemier  
Frances O'Neill  
Wally and Carrie Pearson  
James and Laurie Peck  
Lew and Kathy Peters  
Norman Power and Jennifer Power  
Deanna Pozega  
Suzan Travis-Robyns  
Jon and Christine Saari  
Doug and Nancy Sherk  
Curtis and Elizabeth Slabaugh  
Marion Sonderegger  
Corey and Kathleen Stiles  
Ron Sundell and Susan Bohor  
Bill and Frances Waters  
Bob and Maggie Watson  
Dennis and Kayla West  
Jimmie Wright  
Larry and Diana Ziomkowski

## RIVER

Judy Akkala  
Richard and Sarah Anderson  
Nancy Auer  
Karroll Bohnak and Elizabeth Yelland  
Bruce and Leah Bohor  
Mike and Emily Coyne  
Gary Dahlke  
Ken and Maura Davenport  
William and Kathy Davis

Jo Foley  
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Fred Grandchamp and Robbie McBride  
Mike and Helen Grossman  
Jim Hendricks  
Linda Hoath  
Dan Hornbogen  
Randy and Amy Hubinger  
Dick Huey and Sue Kensington  
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Bob and Merrilee Keller  
John and Pauline Kiltinen  
Frederick Kirschenmann and Carolyn Raffensperger  
Robert Manning  
Jim and Norma Matteson  
Wim and Carolyn McDonald  
Tom and Sue Noren  
Don Potvin  
Richard Robinson  
Greg Seiple and Babette Welch  
Craig and Phyllis Stien  
Matt and Jane Surrell  
Bob Thompson  
Richard F. Vander Veen III  
Bruce Ventura and Tina Hall

## TRIBUTARY

P. Mike and Sharon Farrell  
Jody George

## WATERSHED

Jack and Nancy Lapinski  
Clayton and Susan Peimer

Please notify our office if we missed someone or if a correction is needed.

## SWP Annual Meeting

The Superior Watershed Partnership annual meeting was held on February 7, 2008. With nearly 100 people in attendance, the evening was a great success! Thank you to our partners and members for your continued involvement and support! Highlights included presentations by Executive Director Carl Lindquist and Membership Coordinator Natasha Koss and the election of Dr. Nancy Auer to the SWP Board of Directors. We welcome Dr. Auer and her professional expertise and thank her for her volunteer pollution prevention work with the Earth Keepers initiative. Community partners were recognized for their important work with the SWP: The Upper Peninsula Chapter of the Michigan Pharmacists Association received the Upper Peninsula Conservation Award for assisting with the record breaking 2007 pharmaceutical collection event. The City Wastewater Treatment Plant received the Community Conservation Award for working



SWP Executive Director, Carl Lindquist, awarding Curt Goodman and Tom Asmus from the City of Marquette Waste Water Treatment Plant the Community Conservation Award.

with the SWP on a successful mercury reduction program. And finally, Angie Lucas was recognized as the SWP Volunteer of the Year for significant time and energy devoted to environmental education and conservation projects.

Thank you to Range Bank, Marquette Community Federal Credit Union, and Pride Printing for sponsoring this year's event.

## Summer Youth Corps

This summer, the SWP and Michigan Works! will provide a unique opportunity for local youth to gain hands-on experience with watershed inventory and habitat restoration work while earning a paycheck. High school and college-aged youth will participate in a variety of projects that will have a positive impact on Upper Peninsula watersheds including invasive species removal, native plant restoration, riparian buffer implementation, stream bank stabilization, and much more! If you or someone you know is interested in learning more about the Youth Conservation Corps or interested in supporting or sponsoring a youth crew, please call our office.

"There is substantial evidence that today's young people suffer from Nature Deficit Disorder (NDD). Richard Louv, author of *Last Child in the Woods* claims a whole host of behavioral problems in our children can be traced back to the fact they are not spending enough time outside."

## Highlights in Watershed

continued from pg. 2  
tat for fish such as native brook trout. Restoration of the site provided an opportunity to demonstrate "Best Management Practices" including the use of native plants and an educational opportunity for local agency officials and Northern Michigan University students. Thanks to project partners including the Michigan Waterfowl Association and the Upper Peninsula Resource Conservation and Development Council.

"The Orianna Creek restoration project was a great partnership between the SWP, local landowners, and the City of Marquette to improve trout habitat and the overall watershed health," said Gary Dahlke, SWP Board member.

## Watershed Councils

The Superior Watershed Partnership provides technical assistance and support to numerous existing and newly forming citizen watershed councils across the Upper Peninsula. Last year the SWP published the first edition of the Watershed Council Toolkit. This document outlines the steps a citizen group can take to protect and restore their watershed. It also outlines the services offered through SWP including water quality monitoring training, workshops, and financial assistance for projects when available. Congratulations to these groups for their great work and continued commitment to protecting and restoring watersheds of the Upper Peninsula!

Riparian Buffers  
Water's natural defense

## Riparian Buffers

Maintaining a riparian buffer is a simple and cost effective way landowners can protect water quality and aquatic habitat along rivers, streams, and lakes. Visit the SWP online to learn more about how we're working with local municipalities to help protect and restore riparian buffers. The SWP website also features a model riparian buffer protection ordinance.



Watershed Council Toolkit

"In all things of nature there is something of the marvelous."  
-Aristotle