

## Michigan and the Great Lakes Compact What a long, strange trip it's been...

During the past year, the Michigan legislature prepared to discuss, then debated, then heatedly disagreed about how to pass the Great Lakes — St. Lawrence River Basin Water Resources Compact (the Compact) in our state. The Compact itself was not really at the center of the debate. There was strong, bi-partisan agreement that the Compact should be passed. What was really at issue was how to implement the Compact, which included a set of state water use laws.

### The Compact

The Compact is an agreement among the eight US Great Lake states to prevent diversions and withdrawals that would harm the Great Lakes ecosystem. It is rooted in history and a long tradition of managing the lakes cooperatively, and includes the following statements about the waters of the Great Lakes:

- They are valuable public resources held in trust by the States;
- They are interconnected and part of a single hydrologic system;
- They can concurrently serve multiple uses; and
- Future diversions and consumptive uses have the potential to significantly impact the environment, economy, and welfare of the region.

The Compact is now traveling a complicated journey, but once completed the result will be worth it. The process requires all eight state Governors to sign it, which was done in December 2005. The next step is underway and nearly completed; all eight state legislatures are required to pass it, and at this writing, only Pennsylvania needs to do so. The final step requires ratification by the US Congress. When that is accomplished, the Compact will be a formal interstate compact with standing in federal court.

### State Water Use Laws

On February 9, 2006, the Michigan state legislature passed laws that were long overdue since we were the only state that neglected to fulfill a commitment in the 1985 Great Lakes Charter to address diversions and consumptive uses of water. However, those laws were only the beginning, and it was widely believed they should be revisited during the Compact debate.

The Compact provides a minimum decision making standard for water management across the Great Lakes Basin. One excellent feature of the Compact is a provision that each state can enact a stronger program designed to address the

unique needs of that state. Last summer, the Michigan House of Representatives introduced a package of bills to do this, and later in the year, the Senate introduced a competing package. The differences between these two packages fueled the debate on how to move forward.

For many months very difficult negotiations took place and pressure to pass the Compact mounted. However, everyone involved persisted under the leadership of state Senator Patty Birkholz and state Representative Rebekah Warren. On June 23, 2008, an agreement was reached that blended the two packages and cleared the way for the Compact to pass in Michigan.

### KEY POINTS IN THE NEW LAWS:

#### 1. Definition of “adverse resource impact”

The law passed in 2006 prohibited adverse resource impacts due to large quantity withdrawals. However, a more refined definition and process was needed to provide meaningful protection. The new law uses a scientifically-based water withdrawal assessment tool to reserve at least 75% of the summer low-flow of rivers and streams to protect aquatic health. The tool includes zones to describe the progression from no impact, Zone A, to adverse resource impacts, Zone D. It also adopts levels that apply to different types and sizes of rivers and streams based on their sensitivity to changes in flow and other factors (such as the rare nature of certain stream types in Michigan, not found in most places throughout the country).

#### 2. Permitting

The new law lowers the threshold for permits to withdraw water from the Great Lakes from 5 million to over 2 million gallons a day. Additionally, the threshold from inland sources is lowered from 2 million gallons a day to 1 million gallons a day or more in Zone C, as designated by the assessment tool. Permit thresholds for water bottling plants are lowered to over 200,000 gallons a day.

Withdrawals from inland sources must demonstrate that their withdrawals are “reasonable” uses of water, taking into consideration other users in the community. The legislation clarifies that it does not alter or affect the interest that property owners have in water or waive or cede any interest that the state holds as sovereign for the people of Michigan.

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Gail Gruenwald  
Executive Director

## Reflections From Our Director

One of my first memories of Lake Michigan is watching beach maintenance workers in the Ludington area dig huge holes along the shoreline to bury thousands of rotting alewives that had washed up on the beach. This was in the 1960's and was a wake up call to many that our beautiful inland seas were out of whack. Since then, of course, I have learned that North America's "5th coast" has faced one challenge after another since European settlement, with additional threats appearing seemingly daily.

The alewife and sea lamprey were some of the first exotic and invasive species to enter our lakes through canals dredged in the nineteenth century to further Great Lakes shipping. What we didn't know 40 years ago was that by 2008 there would be 186 alien species in the Lakes and that new species would have been discovered the Great Lakes at an average of one every 6-8 months. In recent years, we have watched as one of the most famous of these invasives, the zebra mussel and its cousin the quagga mussel, have disrupted the system to such an extent that miles of shoreline are nearly unusable due to excessive algae growth and thousands of birds are dying annually from avian botulism thriving in this upset environment.

In addition to these threats to water quality, the Great Lakes are facing water quantity challenges as well. Cutting off the flow of invasive species entering the lakes are simple compared to addressing world water shortages and changes in global climate. These are global issues that require global solutions. They also require individual action and the efforts of thousands of local, state, national, and international organizations and entities.

I am usually not one to see the glass half empty, but the devastating changes that the Great Lakes have had to endure leaves me wondering if we have brought Samuel de Champlain's "sweet seas" to the brink of disaster. There is no room left for apathy or ignorance. We must all act in the Lakes' best interests. Please support our efforts to enact ballast water legislation to limit additional invasive species and our efforts to enact water use and consumption legislation here in Michigan (see article on page 1) and our efforts to gain restoration of the disturbed shorelines. We need your help and participation to further these critical policies so we can continue to call these Lakes great.

## Michigan and the Great Lakes Compact (cont.)

### 3. Public Participation

Public participation is increased because more facilities are subject to permitting which includes public noticing and comment periods. Also, new "water use assessment and education committees" can be created when the assessment tool designates withdrawals in Zones B or C. Groups working on local water quality issues are notified and given the opportunity to be involved in the assessment and education process.

### 4. Conservation

Since 2006, water use sectors have been developing environmentally sound and economically feasible water conservation practices. The new law requires water users to self-certify that they reviewed

these practices. In Zone C, current users must certify they have considered implementing them and all new permit applicants must demonstrate they are implementing conservation methods they find most cost effective.

Dr. Grenetta Thomassey, Policy Director for Tip of the Mitt Watershed Council, served as statewide coordinator for the Great Lakes, Great Michigan coalition, which was instrumental in negotiating how the Great Lakes Compact and implementing legislation would be passed in Michigan. For more information about the Compact contact her by phone at (231) 347-1181 or by e-mail at [grenetta@watershedcouncil.org](mailto:grenetta@watershedcouncil.org).

## Blue-Ribbon Trout Streams

Northern Lower Michigan is renowned for its large, beautiful, high-quality lakes, but equally famous and important are the rivers and streams that feed into them. Lake Charlevoix, Burt, Mullett, and Black Lakes are some of the largest in our service area and, in fact, are among the 10 largest inland lakes in Michigan - all over 10,000 acres in size. But what also binds them together are the blue-ribbon trout streams that flow into and provide clean abundant waters that sustain these lakes.

In the Tip of the Mitt Watershed Council service area, we have an impressive selection of blue-ribbon trout streams, including sections of the Black, Boyne, Cedar, Jordan, Maple, Pigeon, and Sturgeon Rivers. Trout streams in Michigan of exceptional quality are given a blue-ribbon designation by the Michigan Department of Natural Resources (MDNR). To achieve blue ribbon status, streams are evaluated based on physical, chemical, and biological criteria, though other factors are considered such as access, fishability, and even social and political concerns. In the end, only the best, high quality streams are chosen. We are extremely fortunate to have over 20% of the State's blue-ribbon stream sections in our area!

Each of the seven blue-ribbon trout streams in our area possess unique characteristics and provide a wealth of recreational opportunities. The Black, Pigeon, and Sturgeon Rivers all flow north from as far south as Gaylord and empty into Black, Mullett, and Burt Lakes. Within the same large (Cheboygan River) watershed, the Maple flows mostly through Emmet County from northwest to southeast, ending at Burt Lake. Both the Boyne and Jordan Rivers flow in a northwesterly direction into Lake Charlevoix and the Cedar River flows west to connect to the Intermediate River of the Elk River Chain of Lakes watershed.

The Black, Pigeon, and Sturgeon Rivers all flow through "the Big Wild", also known as Pigeon River Country, where elk herds roam across a vast wild area with an incredible diversity of land forms and habitats. Sitting between the Sturgeon and Black, the Pigeon River covers the majority of Pigeon River Country and offers exceptional fishing and

paddling opportunities. A strong native brook trout population distinguishes the Black River while the Sturgeon boasts a healthy robust brown trout fishery. Notably, the MDNR is currently using the Sturgeon River brown trout strain at its rearing facility in Oden to stock rivers and streams throughout the State. Like anglers, paddlers also hold the Sturgeon River in high esteem as it is the fastest river in the Lower Peninsula.

On the other side of the Cheboygan River watershed, the West Branch of the Maple River originates from Larks Lake. The West Branch also drains one of the most impressive wetland complexes in our area: the Pleasantview Swamp. The East Branch of the Maple starts at Douglas Lake, which is home to the University of Michigan Biological station. Due to the University's presence, an extensive amount of research has been conducted on the East Branch, including pioneering studies of the endangered Hungerford's Crawling Water Beetle.

To the south, the Boyne, Jordan, and Cedar Rivers also provide great angling, paddling, and wildlife viewing opportunities. The Boyne is quite popular among anglers and provides an excellent paddle in its lower section--both exciting and relaxing. The Jordan, the first river in Michigan to be designated wild and scenic under the state's Natural Rivers Act in 1972 and is frequented by paddlers as it is free-flowing (without dams), windy and fast, and is popular among backpackers because of the 18-mile beautiful Jordan River Pathway. Furthest south, the Cedar River valley provides the backdrop that has made the area famous for visitors to Shanty Creek and Schuss Mountain.

These incredible blue-ribbon streams spread across the tip of the mitt offer nearly endless opportunities for exploring and enjoying. Our advice? Get out there and take advantage of them! Whether in the water, on the water, or simply traversing the watershed, everyone can and should experience these incredible stream ecosystems first hand!

### Did you know...

**Tip of the Mitt Watershed Council offers Volunteer Stream Monitoring programs on a majority of the blue-ribbon trout streams in our service area. If you're interested in being a Volunteer Stream Monitor contact Kevin Cronk at 231-347-1181 or [kevin@watershedcouncil.org](mailto:kevin@watershedcouncil.org).**

# Volunteers Take the Plunge To Enjoy and Protect Northern Michigan Waters



Volunteers across Northern Michigan are diving into our lakes and streams to explore these amazing aquatic ecosystems and to protect and serve these precious water resources. Each year, scores of volunteers assist the Tip of the Mitt Watershed Council in protecting our abundant lakes and streams by participating in a variety of water quality monitoring programs including the Volunteer Lake, Volunteer Stream, and most recently Volunteer Algae and Botulism Monitoring Programs.

By coordinating multiple programs, the Watershed Council is able to offer a variety of volunteer opportunities to local communities. The Watershed Council coordinated the Volunteer Lake Monitoring Program for almost 20 years before expanding to streams and the Great Lakes. With more choices available, the Watershed Council's programs are flourishing. The Volunteer Stream Monitoring Program has been incredibly successful as we've managed to get over 100 people involved in just three years.

Our most current program is Great Lakes monitoring. Piles of algae continue to wash up and rot on our shorelines and an estimated 8,000 birds died last season in Lake Michigan from botulism. In response to nuisance algae blooms and rising number of bird deaths on the Great Lakes, the Watershed Council is coordinating volunteer efforts to monitor botulism outbreaks in the upcoming season. People living on or frequenting the Great Lakes are able to help out by keeping track of the algae along the shoreline and documenting the bird deaths occurring along Great Lakes shorelines as the result of botulism. These problems on the Great Lakes affect all of us and we've found that people in our area genuinely care and want to help out.

**You can make a difference** by getting involved to help monitor and protect Northern Michigan's greatest natural resource: WATER. Call the Watershed Council today to learn more about our water quality monitoring opportunities. Contact Kevin Cronk, Monitoring and Research Coordinator at 231-347-1181 or [kevin@watershedcouncil.org](mailto:kevin@watershedcouncil.org) to take the plunge into our fantastic waters.

## The Aquavist Corner

{ **Aquavist** ('ä-kw-vist) noun: A member of Tip of the Mitt Watershed Council's Local Activist Network; from Aqua - water, and Activist - one who seeks change through action. }

Summer is upon us and we expect a lot of activity this year at the local level! The updated Aquavist web pages will be released when the Tip of the Mitt Watershed Council unveils its newly renovated website in July. If you have new issues that you want to feature on the website, please let us know.

Your fellow Aquavists want to be kept up to date about challenges you are facing, as well as successful actions being implemented to protect water resources at the local level. The network is here to support you when you need help dealing with a local issue or if you need information about resources available to you.

### Zoning Gaps Analysis Underway

The Watershed Council Policy Team is hard at work on an extensive analysis of all the zoning ordinances in our four-

county service area – Cheboygan, Emmet, Charlevoix, and Antrim counties. The purpose of this work is to review all the existing water-related ordinances currently on the books at the county, city, township, and village level to determine: 1) is the existing ordinance strong, adequate, or weak? and 2) are there gaps; that is, are important protections missing?

The project will take about a year to complete. A formal report will be released detailing the information for each county and the results will be placed into a format that is easy for you to use. In addition to the work of our talented interns, Julia Kazmers and Katie O'Neill, a sub-committee of members from Pickerel-Crooked Lakes Association are assisting with the Emmet County portion. Let us know if you want to participate – all help is welcome!

### Want to join the Aquavists or add a resource to our site?

Contact Grenetta Thomassey at (231) 347-1181 or by email at [grenetta@watershedcouncil.org](mailto:grenetta@watershedcouncil.org).

## DEQ Budget Cut Result

The Michigan Department of Environment Quality (MDEQ) is the key agency responsible to the people of Michigan for upholding the state's constitution and administering laws that regulate activities in Michigan's most treasured natural resources. In order for the MDEQ to live up to this obligation, adequate financial support must be provided. Increased funding to support MDEQ programs to protect our resources is an essential investment in our future.

Since the passage of many of our environmental protection laws, such as the Wetlands Protection Act and Lakes and Streams Act, Michigan taxpayers have shouldered the majority of the cost of these regulatory programs. However, in recent years there has been a shift and taxpayer contributions to the MDEQ's budget from Michigan's General Fund have dropped significantly. Budget cuts and, subsequently staff reductions, over the past years have reduced the MDEQ's ability to uphold the public trust and protect our natural resources.

One immediate consequence of this affects the permit review process which uses professional and knowledgeable agency staff. This process includes assessment of impacts from proposed activities and allows the least damaging alternatives to be identified and exercised. Such review is essential to ensure protection of our valuable water resources.

Unfortunately, given their dire lack of funding, MDEQ is proposing to suspend environmental review for certain activities on inland lakes and streams if environmental review and authorization can be provided by the U.S. Army Corps of Engineers. As such, MDEQ has issued a Public Notice for a Temporary General Permit for Specified Minor Activities Authorized by the U.S. Army Corps of Engineers in Lakes and Streams.

Suspending environmental review of minor activities authorized by the U.S. Army Corps of Engineers in lakes

and streams will surely result in additional degradation and destruction of our water resources and will likely result in encumbrance for permit applicants. The environmental review of such permitted activities by Michigan DEQ offers several benefits in terms of program efficiency and resource protection including more complete review, more timely review, and greater accessibility of staff for applicants and the public.

In some cases, Michigan's waterways suffered substantial environmental impacts from large projects. However, the vast majority suffer from numerous "minor" activities that ultimately create substantial cumulative impacts, akin to "death by a thousand cuts". Removal of review by the MDEQ for certain activities will surely result in additional degradation and destruction of our water resources because this General Permit will provide an institutional "rubber stamp" on projects that would otherwise be reviewed.

In addition to suspending review of permits, the MDEQ will also be making other changes to reduce staff workload including extending permits times, no longer allowing permit applicants to withdraw and re-activate applications, minimal review and no site inspection for most general permit/minor projects, and not bothering with responses to lower priority complaints about unauthorized activities. Each of these actions will slowly chip away at our state environmental protections.

In order for the MDEQ to live up to its commitment, the legislature must provide adequate resources. Contact your state elected officials today and urge them to provide adequate funding to the agencies responsible for protecting Michigan's most treasured resources—the Great Lakes and our inland lakes, rivers, and wetlands.



**Contact your legislatures to voice your opinion.**

### Governor Jennifer M. Granholm

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visit <http://senate.michigan.gov>

### Michigan Representative

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# Treasure Lake Charlevoix: Giving the Watershed Some "TLC"



Treasure Lake Charlevoix (TLC) is a project of Tip of the Mitt Watershed Council with the overall goal to protect and enhance the water quality throughout the Lake Charlevoix Watershed. The project components of TLC are adapted from the recommendations of the 2001 Lake Charlevoix Watershed Project: Nonpoint Source Pollution Inventory and Watershed Management Plan, which was developed through a partnership of watershed stakeholders. Priority watershed protection efforts as identified in the watershed plan are being implemented by Tip of the Mitt Watershed Council and project partners through the TLC program. Here are some updates on our work:

## Lake Charlevoix Shoreline Survey Results

During the summer of 2007, Tip of the Mitt Watershed Council staff conducted a shoreline survey of Lake Charlevoix, which was funded by local contributors and Tip of the Mitt Watershed Council members. The shoreline was surveyed for nutrient pollution, though other factors that could impact the lake's water quality were also documented. Nutrients are necessary to sustain a healthy aquatic ecosystem but excess can adversely impact an aquatic ecosystem, and indirectly pose a danger to human health. The entire shoreline of Lake Charlevoix was surveyed in kayaks to document *Cladophora* algae (a biological indicator of nutrient pollution), as well as greenbelts, erosion, shoreline alterations, and substrates. A shoreline pollution survey is a valuable lake management tool. The data from the shoreline survey will be used to identify chronic problem sites as well as recent occurrences. This information is a great tool for educating lakeshore residents on the health of the lakeshore, and simple, low-cost solutions to control sources of nutrients to the lake. The survey results will also aid in updating the Lake Charlevoix watershed management plan.

Results of the shoreline survey indicate that nutrient pollution is probably occurring in multiple locations in Lake Charlevoix. Additionally, based on past surveys, there has been an increase in nutrient pollution over time. After compiling field data and generating maps, five areas in the main basin of the lake and seven areas in the South Arm appeared to be contributing relatively more nutrient pollution. Although survey results indicate nutrient pollution along the Lake Charlevoix shoreline, factors such as wind, wave action, currents, and ground water paths make it difficult to determine pollution sources with certainty.

To achieve the full value of this survey, the Lake Charlevoix Association is working with the Watershed Council on follow-up activities aimed at educating riparian property

owners about preserving water quality and to help them rectify any problem situations. More information on the survey and follow-up activities can be found on the Lake Charlevoix Association website at [www.lca-mi.org](http://www.lca-mi.org). More information can also be obtained by contacting Kevin Cronk at (231) 347-1181 or e-mail at [kevin@watershedcouncil.org](mailto:kevin@watershedcouncil.org).

## Boater Outreach and Education Program

During the summer of 2008 the Watershed Council is focusing its boater outreach and education efforts towards recreational boaters and marinas on Lake Charlevoix. This program aims to build awareness of good boating practices, clean water, and current issues affecting water within our Northern Michigan boating community.

As recreational boating has increased dramatically over the past few decades, the impact of boating on water quality has also increased. Toxic discharges from boat cleaning and maintenance could potentially damage aquatic ecosystems. The inadvertent spread of invasive species, oil leakage from boat engines, and fuel tank overfill at fuel docks can harm our water resources. With 4.5 million recreational boaters in the Great Lakes region, the overall environmental impact of boaters could be significant.

Boaters can help protect water quality by making simple changes in their boating practices. With the help of local marinas, marine suppliers, boat and marine manufacturers, boating groups, and many other partners, the Watershed Council is bringing our extensive knowledge about water resources to boaters, including technical information, water quality results, and aquatic invasive species identification. Boater outreach materials have been developed and will be distributed around Lake Charlevoix over the summer (see article on page 8 about the Boater Bundle Series).

In addition to reaching out to individual boaters, the Watershed Council has worked to encourage participation of Lake Charlevoix marinas in the Michigan Clean Marina Program. On May 15, 2008, seven marinas from around the area gathered at Irish Boat Shop in Charlevoix to learn more about the program and tour the Irish Boat Shop facility which is the first marina on Lake Charlevoix to become a certified Clean Marina. As of press time, other marinas around the lake that are working through the certification process include the Charlevoix City Marina, Boyne City Marina, and the Harborage Marina. For more information about the Program visit: [www.miseagrant.umich.edu/cmp/index.html](http://www.miseagrant.umich.edu/cmp/index.html). Funding for the boater outreach and education program is provided by the Charlevoix County Community Foundation.

# Cheboygan River Watershed Restoration Initiative

The National Fish and Wildlife Foundation has chosen to fund the Watershed Council's "Cheboygan River Watershed Restoration Initiative" project for 2008 and 2009, through the Arcelor Mittal Great Lakes Restoration Program. The Watershed Council's project was one of 16 projects selected from the Great Lakes Region to receive funding.

The "Cheboygan River Watershed Restoration Initiative" is a project of the Watershed Council to identify, develop, and implement a number of restoration projects in the Cheboygan River Watershed in partnership with lake associations. Goals of the initiative are to protect the diversity of aquatic habitats and maintain excellent recreational opportunities within the Cheboygan River Watershed by controlling contributions of sediments and nutrients, and managing aquatic invasive species.

To facilitate a restoration and management initiative in the watershed, specific preliminary surveys will be conducted to supplement our current information on restoration needs. Restoration initiatives in the Cheboygan River Watershed will include control and management of aquatic invasive species and lakeshore and streambank restoration projects. In addition to surveys and on-the-ground restoration and management, the "Cheboygan River Watershed Restoration Initiative" will include an information and education campaign to showcase the implemented projects, create awareness of water quality issues in the Cheboygan River Watershed, and facilitate behavior change.

Lake associations that are partnering with the Watershed Council on this project include Burt Lake Preservation Association, Mullett Area Preservation Society, and Pickerel-Crooked Lakes Association. Other partners providing technical assistance include the University of Michigan Biological Station and the NOAA Great Lakes Environmental Research Laboratory.

On-the-ground projects for the initiative began in June and include purple loosestrife management with *Galerucella* beetles in the Burt Lake Watershed, shoreline and aquatic plant surveys on Mullett Lake, streambank restoration on the Pigeon River, an aquatic plant survey on Pickerel and Crooked Lakes, and lakeshore erosion control and greenbelt enhancement projects on inland lakes in the watershed. Other education and outreach activities include the 1st Annual Cheboygan River Watershed Summit, the 5th Annual Burt Lake Preservation Association "Restore the Shore" program, and various presentations at lake association annual meetings.

For more information on the "Cheboygan River Watershed Restoration Initiative" project, call Tip of the Mitt Watershed Council at 231-347-1181 or e-mail Valerie Olinik-Damstra at [valerie@watershedcouncil.org](mailto:valerie@watershedcouncil.org) or Kevin Cronk at [kevin@watershedcouncil.org](mailto:kevin@watershedcouncil.org).



## *Experience Lake Charlevoix*

**317 sixth and seventh grade students from the Lake Charlevoix Watershed participated in the 15th Annual "Experience Lake Charlevoix" on May 20th and 21st, a field trip sponsored by Tip of the Mitt Watershed Council and the Lake Charlevoix Association. Students cruised on the Beaver Islander ferry on Lake Charlevoix while learning about water quality and water safety issues. Nearly 20 volunteers from the Lake Charlevoix Association, Friends of the Boyne River, US Coast Guard, and others worked to help make this program a success.**

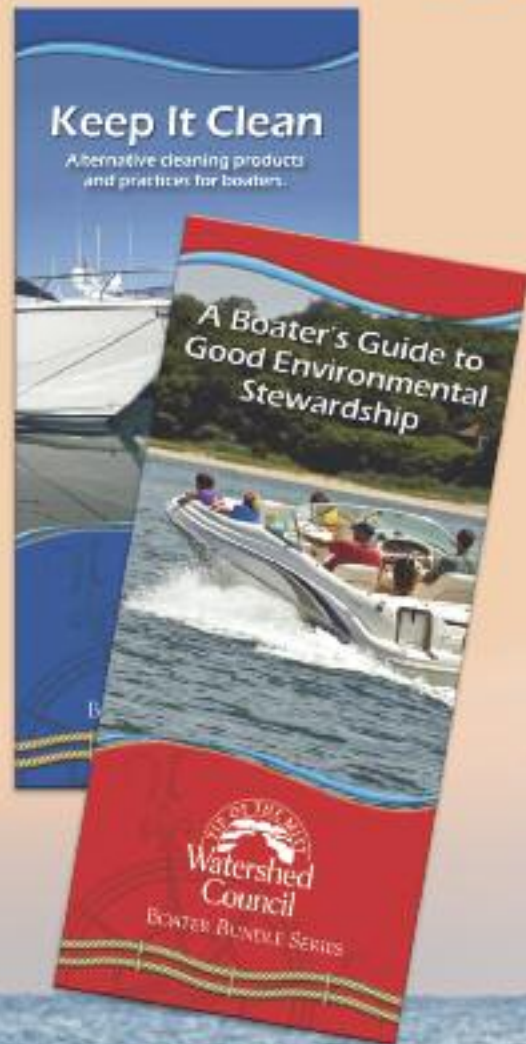


## Introducing our NEW Boater Bundle Series

With summer now upon us, most individuals take every chance they can to get out and enjoy our magnificent waters. Whether a fishing trip with your grandchildren or a relaxing cruise to catch the setting sun, boating is a favorite pastime and a treasured memory for Northern Michigan residents and visitors. In an effort to promote environmental stewardship and educate the boating community about good boating practices, Tip of the Mitt Watershed Council is pleased to offer our Boater Bundle series.

Our Boater Bundle series includes the following publications and materials:

- ✓ **Keep It Clean**  
Alternative cleaning products and practices for boaters.
- ✓ **Aquatic Invasive Alert**  
What they are, history, and what you can do to prevent introduction and spread of aquatic invasive species.
- ✓ **A Boater's Guide to Good Environmental Stewardship**  
Simple changes that boaters can make in their cleaning, maintenance, and fueling routine that will minimize the negative impacts boaters can have on our Great Lakes ecosystem.
- ✓ **A Complimentary Bilge Pad**



### Get Your Boater Bundle Today!

To help protect the health of Northern Michigan's waters, obtain a Boater Bundle by contacting the Watershed Council at 231-347-1181 or [info@watershedcouncil.org](mailto:info@watershedcouncil.org).



### Attention Shoreline Property Owners:

We need your help monitoring avian botulism outbreaks along our Northern Michigan shorelines. Avian Botulism Clean Up Kits are now available at our office. Each kit contains enough materials to report and safely dispose of up to two bird carcasses. Visit our office at 426 Bay Street, downtown Petoskey, to pick up your free clean up kit today.

For more information about avian botulism, please contact Kevin Cronk at 231-347-1181 or by e-mail at [kevin@watershedcouncil.org](mailto:kevin@watershedcouncil.org).

## Welcome New Members

The future of our waters and our quality of life ultimately depend on what we do today to protect them. In order to continue to protect and enhance water quality in our region, the Watershed Council depends upon individual members, like you, for strength and financial support. We would like to thank all of our members for your continued support and extend a special welcome to our new members.

Mr. and Mrs. James Adams  
 Mr. and Mrs. John Archiable  
 Mr. and Mrs. Jack D. Baker  
 Greg and Kathy Batka  
 Ms. Carolyn Belknap  
 Ms. R. A. Bidus  
 Eileen Bien  
 Mr. Douglas Blatt  
 Mr. John C. Brewster  
 Donald and Bonnie Budzynski  
 John and Barbara Burgdorfer  
 Jerome E. Burns Jr.  
 Mr. and Mrs. W. Dale Compton  
 Paul and Mary Derwich  
 Mr. and Mrs. John T. Donaldson Jr.  
 Jim and Judy Flanagan  
 Jim Gregart

Mr. and Mrs. Ted Hammond  
 Henry and Nancy Hanflik  
 Mr. and Mrs. Jeff Higgs  
 Ms. Katherine M. Howson  
 Mr. and Mrs. Brian Jackman  
 Mac and Suzie Jacob  
 Laban P. Jackson  
 Mr. and Mrs. Christian Janssens  
 James and Gail Junod  
 McBride Construction, Inc.  
 Mr. and Mrs. Geary McLaughlin  
 Robert V. Messerly  
 Henry and Margaret Moczul  
 Michele Norling  
 Kim Nowack  
 Carole Orth  
 John and Mary Beth Panganiban

Mr. Robert Quackenbush  
 Marcus and Michele Quintiliano  
 Joe and Michelle Rohr  
 Eric W. Russell  
 Mr. and Mrs. Lawrence Rychlick  
 Mr. R. Oliver Schwab Jr.  
 Mr. and Mrs. Sam Sharp  
 Bob and Diane Simancek  
 Dr. Robert A. Smith  
 Mr. and Mrs. Douglas Tayler  
 Mr. and Mrs. Thomas Titcomb  
 Mr. and Mrs. John Truckey  
 Mr. and Mrs. William VonValtier  
 Carole Vial  
 Mr. and Mrs. Henry Wehrle Jr.  
 Mr. and Mrs. John W. Wickett  
 Mrs. Marilyn J. Willson

## Special Gifts

### Gifts in Memory of...

Dr. Ray T. Bradford  
*Mrs. Edie S. Johnson*  
 Edith Carr  
*Martha B. Cheney*  
*Mr. Thomas G. Rigg*  
 Lewis E. Hopkins  
*Mrs. Edie S. Johnson*  
*John and Linda Linnenberg*  
*Mr. and Mrs. Bradford Wilkins*  
 O.J. Keller, Jr.  
*Mr. and Mrs. E. R. Thomas, Jr.*  
 Christopher Prusakiewicz  
*Mr. and Mrs. Ed Strzelinski*  
 Thomas Reynolds Jr.  
*Mr. and Mrs. Lawrence D. Buhl, Jr.*  
*Mr. and Mrs. Thomas H. Carruthers, IV*  
*Mr. Ward C. Case*  
*Mr. and Mrs. James H. Howe, III*  
*Mr. and Mrs. Archibald McClure*  
*Mr. and Mrs. Richard M. Parker*  
*Mr. and Mrs. Donald H. Streett*  
*Mr. and Mrs. E. R. Thomas, Jr.*  
*Mr. Robert S. Troth*

### Gifts in Honor of...

Emily Meyerson  
*Bearcub Outfitters*



John Danly teaches sixth graders about using a Secchi disk to measure the clarity of Lake Charlevoix's water.

## Congratulations!

### JOHN DANLY

#### 2008 Volunteer of the Year

John Danly has been a Volunteer Lake Monitor for over 20 years. In addition to his weekly monitoring, he also participates in the annual experience Lake Charlevoix program for sixth graders where he demonstrates how to use monitoring devices and educates the children on the importance of good quality water. Danly's steadfast enthusiasm for his monitoring of Lake Charlevoix has already inspired some of these students to become environmental stewards. Congratulations John Danly on this well deserved award.

# THANK YOU Volunteers

## Experience Lake Charlevoix

Michael Buttigieg  
Ed Strzelinski  
Dan Mishler  
Mike Dow  
Paul Witting  
Sue Costa  
Suzie Dickow  
Audrey Etienne  
Mike Holmes  
Jonathan Friendly  
Sam Williamson  
Van White  
US Coast Guard

## Sturgeon River Watershed Tour

Neal Godby, DNR Fisheries  
Dave Smethurst, Headwaters  
Land Conservancy

## Rain Barrel Pick-up Day

Trish Woollcott  
Eugene Thomas  
Alan Beyer  
Cody Beyer  
Andrew Beyer

## Stover Creek Clean Up

Maureen Radke  
Rick Brandi  
Maura Brandi  
Mary Lou Supernaw

## Mailing Services

Sharon Brown  
Tillie Cone  
Virginia Corpus  
Doris Fedus  
Alice Hill  
Carolyn Keller  
Sally Kraegel  
Gloria J. Krusell  
Marjorie E. May  
Paula Perttu  
Irene Phelps  
Lester and Effie Stevens  
Virginia Stolt  
Sharon Van Meter  
Bernadette Walsh  
Breanne Wiklanski

## Purple Loosetrife Beetle Collection

Bill Thompson  
Susan Page  
Judy Know  
Jerry Beehler  
John Ressler  
Ray McMullen  
Mary Anne Newman  
Monica Kline  
Marilyn and Bob Smith  
Cathy Freebairn

## Watershed Council Spring Office Clean Up

Trish Woollcott  
Dean and Sharon Ginther

# THANK YOU for your gifts

**Michael Esposito, John Hodge, and staff at Irish Boat Shop in Charlevoix** for hosting the Clean Marina Social.

**Dick Babcock and Van Snider from the Michigan Clean Marina program** for attending the Clean Marina Social.

**Michael Esposito** for transporting and storing extra rain barrels.

**Beaver Island Boat Company crew** for helping with Experience Lake Charlevoix.

**Northern Michigan Mothers Acting Up** for promoting the Rain Barrel Sale and Tip of the Mitt Watershed Council.

**Little Traverse Home Builders Association** for booth space at the Annual Home Builder's Show to promote the Rain Barrel Sale.

**Conservations Districts** for helping promote the Rain Barrel Sale.

**Wayne Blomberg and Ryde Marine** for providing a training site for Lake Monitoring program and providing pontoon boats and helping on the Crooked Lake Pontoon Tour.

**Pickereel-Crooked Lakes Association** for providing funding for zoning ordinance gaps analysis work.

**Julienne Tomatos** for donating delicious snacks for the Crooked Lake Pontoon Tour.

**Emmet County Fairgrounds** for the use of the T-barn for rain barrel storage and as distribution site for pick-up day.

**Victoria Anderson** for bringing homemade breads for the staff.

**Master Gardeners** for booth space at 2008 Garden Expo to promote Rain Barrels.

**Lakeview Academy** for assembling the Boater Bundle packets.

**Petoskey Wal-Mart** for providing funds for the Lake Association Summit 2008.

**Network of Lake Associations (NOLA)** for providing funds for the Lake Association Summit 2008.

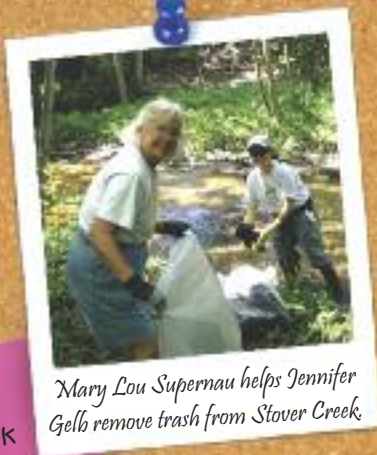
**Petoskey Plastics** for providing trash bags for avian botulism kits and the upcoming beach cleanup.

**Mike Doyle & Associates and Crown Products** for donating "pocket duct tape" for avian botulism kits.

**Aakron Rule** for donating mini pencils for avian botulism kits.



Rain Barrel Pick Up Day  
**Over 200  
 Rain Barrels  
 sold!**



Mary Lou Supernau helps Jennifer Gelb remove trash from Stover Creek.



Summer intern, Martin Jacob, takes a break after unloading rain barrels.



Summer intern, Katie O'Neill, helps unload a semi-truck full of rain barrels.

Stover Creek  
 Cleanup  
 June 7, 2008



Maura and Rick Brandt volunteer at the Stover Creek Clean Up

Multiple bags of  
 trash collected!



Jack Hodge explains the certification process for the Michigan Clean Marina Program.



Summer intern, Julia Kazmers, takes a break from policy work.

**Beetle Release Project**

On June 4, twelve dedicated lake association members trudged through a local wetland in order to find the purple loosestrife eating *Galerucella* beetles. Represented were Twin Lakes Association, Pickerel-Crooked Lake Association, Walloon Lake Association, Larks Lake Association, and Mullett Lake Area Preservation Association.



**Volunteering**  
 is a rewarding way to give something back to your community and work with others who, like you, love our beautiful water resources.

See our upcoming events and volunteer opportunities on the back page.

## TIP OF THE MITT WATERSHED COUNCIL

### Volunteer Opportunities

#### August 16 Summer Beach Clean Up

Gather a group of friends and volunteer to clean a shoreline area of your choice during our Summer Beach Clean Up.

Stop by our office August 1 - 15 to pick up supplies and designate the area your group will clean. This event is in conjunction with Petoskey's Festival on the Bay.

### Upcoming Events

#### August 6 Jordan River Kayak Tour\*

10:00am - 2:00pm (Experienced paddlers only.)

#### August 11 Lake Michigan Summit

10:00am - Noon ~ No Charge

Location: Harbor Springs City Hall

(Please RSVP by August 8th)

#### August 9 Watershed Management:

##### A Scaled Approach

10:00am - 2:00pm ~ No Charge

A walking tour at NCMC

#### August 13 Waugoshance Point Kayak Tour\*

9:00am - 3:00pm (Experienced paddlers only.)

\*Advanced registration required ~ Kayak Trips \$20 Members/\$25 Non-members.

# Discover Lake Charlevoix

Hosted by the Tip of the Mitt Watershed Council  
and the Lake Charlevoix Association

**Thursday, August 7, 2008**

at Ferry Beach in Charlevoix

**Thursday, August 14, 2008**

at Veteran's Park in Boyne City

4:00 pm - 7:00 pm

Admission is FREE

Wine and hors d'oeuvres reception included.

Take a boat cruise on Lake Charlevoix and try your hand at water quality monitoring or hear about shoreline stewardship topics, invasive species, and efforts to protect this jewel of Northern Michigan. Browse displays from various organizations within the Lake Charlevoix Watershed.

Registration, please call:

Tip of the Mitt Watershed Council

231-347-1181

Funded by the Charlevoix County Community Foundation

The voice for Northern  
Michigan waters.

