



ES **EnviroScience**
INCORPORATED

The Milfoil Solution[®]

EnviroScience, Inc. | 3781 Darrow Road | Stow, Ohio 44224

Phone: 800.940.4025 | Fax: 330.688.3858 | Email: info@EnviroScienceInc.com
www.EnviroScienceInc.com



MILFOIL SOLUTION

The Natural Choice for Eurasian Watermilfoil Control

Milfoil Solution®, formerly known as The MiddFoil® Process, is the only environmentally sound and effective long-term control for Eurasian watermilfoil, one of the most intensively managed invasive aquatic weeds in North America.

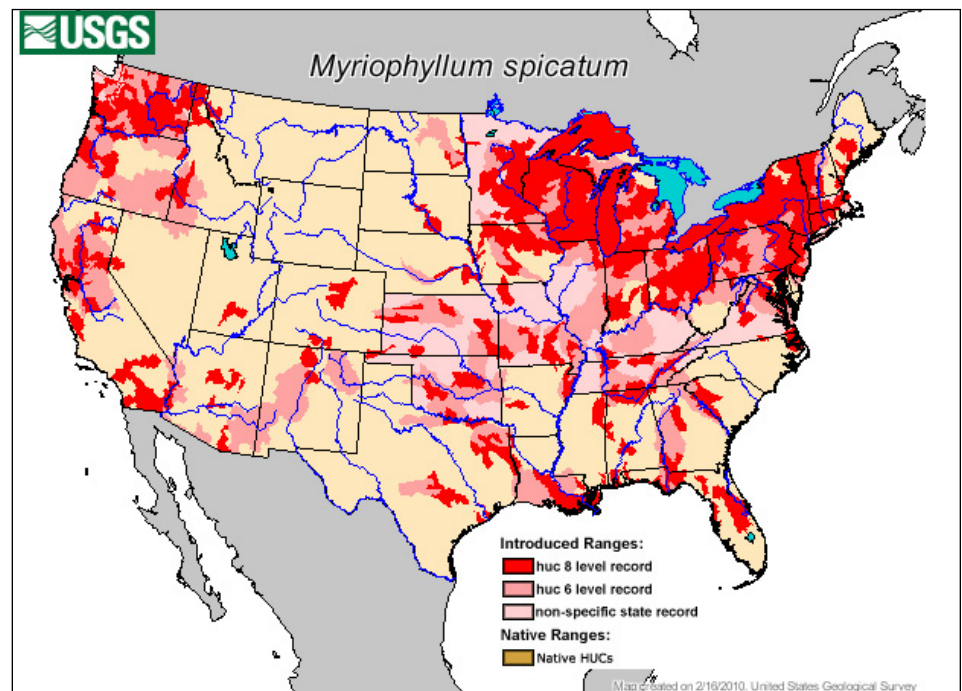
Our strong network of university, faculty and research staff allows us to provide world class expertise and service. In addition to our broad range of Lake Management services, EnviroScience is the exclusive provider of the Milfoil Solution® management program for Eurasian watermilfoil control. Milfoil Solution® is the only natural, non-chemical alternative for controlling the growth of Eurasian watermilfoil.



The Milfoil Solution®

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One of the most problematic exotic weeds invading our lakes is Eurasian Watermilfoil. Milfoil was introduced to North American waters in the 1930's and has spread to nearly every state in the United States and half of Canada. It's a fast growing hardy weed that grows in mats across the surface of the water often taking over a lake, choking out native plants and severely impacting all recreational uses— in many cases, growing so thick that boats are unable to navigate. To combat this growing threat, the scientist of EnviroScience Inc. are using innovative science and a tiny native insect to permanently control the growth and spread of the Eurasian Watermilfoil.



Carp Lake

“Carp Lake in upper Michigan near the Mackinac Straights had approximately 30% - 40% of the lake covered with Milfoil. The lake community raised funds using donations and pickle jars to raise a total of about \$15,000. We did one stocking of about 10,000 insects one summer, and did another 3,000 the next summer. We saw dramatic impacts within the first year of the project. By the end of the third year of the project, Milfoil had largely been controlled throughout that lake.”



Martin Hilovsky
President, EnviroScience Inc.



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“There’s been no other labor on our part. No other expense on our part. We have the reassurance and the peace of mind knowing that we did not pollute our lake in any way. We had looked at harvesting options - very temporary, very expensive and could possibly spread the weed fragment if they weren’t really cautious. We looked at herbicides. We have nesting loons.



We have eagles that feed here. We have our grandchildren that play in the lake and we really didn’t want to go that road if we didn’t have to. Once again, very temporary control and very expensive. Then one of our members read in a sporting magazine about the weevil. We had such good success, even in the first year of the project that in 1999, we decided well why don’t we celebrate and we decided to have a weevil fest. We have a lot of fun with it. We have a pancake breakfast. We have a street parade. We have a boat parade. It was a way of the Lake Association giving back to the community, a little bit of fun, and also make it known to the surrounding area that the weevils were successful and that we’re proud of them.”

Marilyn Smith

President, Paradise Lake Association, Carp Lake, MI

The Milfoil Weevil

A Native Insect

The milfoil weevil (*Euhrychiopsis lecontei*) is a beetle native to North America that specializes on Eurasian watermilfoil (EWM). As part of the Milfoil Solution® program, it is intentionally introduced into the water body where this invasive plant is a problem in order to establish a resident population to control EWM on a long-term basis.

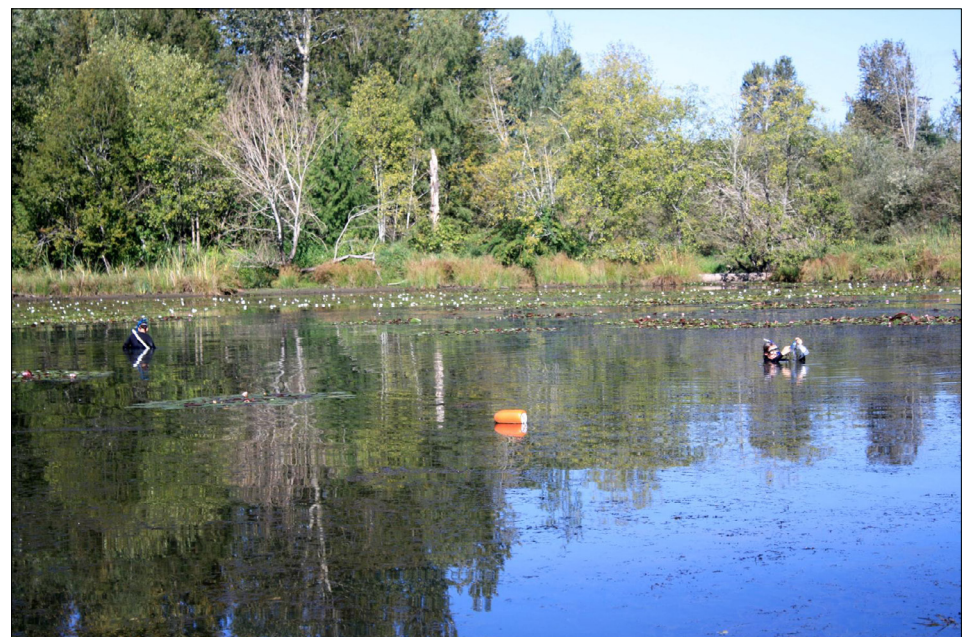
As adults they seek out healthy milfoil to lay eggs. In general, two to three more generations will continue to reproduce and move throughout the lake in one season. In the fall, the adults move to shore to over winter and return in the early spring as soon as the ice melts off the water. The native weevil is a specialist on EWM and its native host Northern watermilfoil, and does not damage any other aquatic plants. As EWM decreases in the treated lake, the beetle population gradually declines to a self-sustaining level.



“Each one of the projects that we start is different because each one of clients has a different setting needs, has different ability to fund the project and different size of lakes in different areas so we custom design a solution for each one of them.”

Martin Hilovsky
President

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Lake St. Helen

Lake St. Helen is approximately 2,000 acres lake in upstate Michigan that had a serious problem with the Eurasian Watermilfoil when they contacted us. That time was about 75% of the lake surface was covered. It's a very shallow lake but 6 feet average depth, so Milfoil was infesting it from shore to shore.

“The Milfoil had really started to affect our tourism. It was so thick that we had ducks walking on top of it. It would knock propellers from the boat. We had to do something. We didn't want to use chemicals. We knew that harvesting didn't work because the milfoil will just replant itself and start all over again if we couldn't pick up all the pieces. So we wanted to do a



biological, a natural approach and using the weevil was a natural approach. For over 5 years we put weevils into the lake and the rest is history. Our lake has never been better. We no longer have any thick milfoil patches and weevils are doing a fantastic job of saving our lake and making our lake usable again. Money was a huge factor. We looked at chemicals and what it would cost us to chemically treat our entire lake. And we figured that weevils were approximately 15% of the cost of the chemicals so it was very, very cost effective for us. The actual cost to township people was \$7 per year. So it was a minimal cost for us to save the lake. Property value stayed up. Now our property values have sky rocketed over the last couple of years. It has really worked out well. I can't say enough about the fantastic relationship we had with EnviroScience. They have been great to deal with – not only coming up with innovative ways to help fund this project, but also helping us in knowing what we can do in the future to keep good control of our lake, good control of the health of our lake which is very, very important.”

John Bawol

President, St. Helen Lake Association, MI

How We Work With You

EnviroScience is committed to using good science to solve environmental problems. As a result of our work with the milfoil weevil, we began offering the Milfoil Solution® program to lake communities and resource managers throughout the country.

Milfoil Solution® is the trade name for EnviroScience's comprehensive program for stocking and monitoring these beneficial insects. Now with 10 plus years of experience and over 200 lakes rehabilitated using the Milfoil Solution®, EnviroScience has the expertise to implement a comprehensive program using weevils to radically reduce infestations of Eurasian Watermilfoil in lakes of any size across the United States and Canada.

The Milfoil Solution® starts by conducting an onsite baseline survey of a lake, then a customized plan is developed taking into consideration the unique characteristics of each lake. The weevils are then stocked in the lake and precision maps are created showing stocking locations and milfoil distribution. Follow up surveys are conducted and detailed reports are developed to track the progress of the Milfoil Solution® process.



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These customized solutions start with an extensive knowledge of your lake.

Is the Milfoil Solution the right solution for your lake's Eurasian Watermilfoil problem?

The best way to know is to talk with the experts at the EnviroScience.

No other organization has the background, expertise and experience in biological control of Eurasian Watermilfoil.

The Milfoil Solution is the only choice for a safe, cost effective, natural, long term solution to Milfoil infestation.

Contact EnviroScience today to learn more about the Milfoil Solution and how to put good science in a tiny native weevil to work to keep your lake healthy.

Contact us today at 800-940-4025 or info@enviroscienceinc.com.

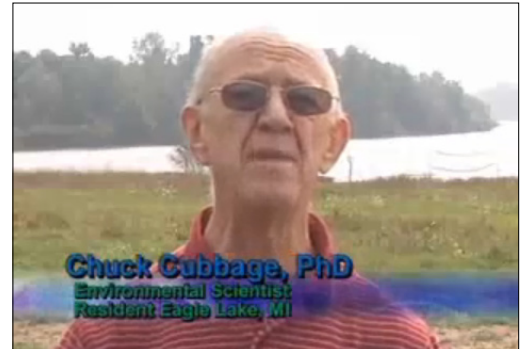
"It is an environmentally safe and very sustainable method utilizes a native insect that's already here and widely distributed throughout North America. It's in most lakes where we look for them. All we are doing is artificially bumping up the population to try to reach a critical mass that will really take care of this problem once and for all over a long term."

Martin Hilovsky
President
EnviroScience Inc.



Eagle Lake

"Eagle Lake is a 200-acre lake in SW corner of Michigan. And back in 1999, there was a real heavy Eurasian Watermilfoil infestation, actually ruining the entire lake. People would have to back up their boats after going maybe 20 or 30 feet. The Milfoil was so heavy that it would choke it out. In 2001, we had the weevils put in, but not all at once. We had them spaced out over 3 years. By 2003, where it had been real heavy, the milfoil had disappeared. At this point, people were really pleased! There were still some pockets here and there, but the idea is that you don't get rid of it completely. You manage it."



Weevils are native North American insects so we're not worried about bringing in an exotic critter in that will get out of hand. When the milfoil disappears, the population of weevils goes down as well."

Why not use a biological control that is more eco-friendly? We thought that might be a good approach. Certainly, we've been tickled to death with the reaction that has happened in our lake."

Chuck Cabbage, PhD
Environmental Scientist, Resident, Eagle Lake, MI

"This approach using biological control in these weevils has a number of distinct advantages over the more conventional control techniques. One of them is certainly that it has potential for being a long term permanent control and nothing else out there does. It's certainly a very safe and environmentally friendly technique because it only impacts milfoil and no other species. They don't get in houses. They don't land on dogs. They don't bite. There's really no noticeable impact except on the milfoil. There's no need to continually reapply this like you would do with an herbicide, a mechanical harvester that you might have to use 2 or 3 times over the course of the summer. Weevils can be a one-time treatment that will continue to increase year after year. For that reason, it's generally a much more cost effective approach to long term milfoil control."

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AQUATIC PLANT IDENTIFICATION

Why is Identification Important?

How to Send Us a Sample or Photograph for Identification

Send Digital Photos via E-mail:

Select the top 10-12 inches of 2-4 plant samples, lay them in a pan of water deep enough so that the leaflets float freely from the stem, and take two or three photos. You may also want to send photographs of the entire infested area. Please send them to info@EnviroScienceInc.com

or Overnight a Sample in Mail:

Again, select the top 10-12 inches of 2-4 plants, place them in a large zip-lock bag with a damp (not wet) paper towel. Pack in small box with some material to prevent the contents from damage. Ship overnight or 2nd Day Air to:

EnviroScience, Inc.

Attn: Lake Management

3781 Darrow Rd.

Stow, OH 44224

Please include as much of the following information as possible:

Lake/County/State

Date Collected

Collector's name

Contact information: Name, organization, address, phone, and email

After identification, what's the next step?

If the plant sample is positively identified as Eurasian watermilfoil or a hybrid version of the plant species, than the next step is learn more about your waterbody and assess the extent of the milfoil infestation. If your community requires one of our representatives to attend a meeting or give a presentation, please contact us with a scheduled meeting date and we will be glad to give a presentation and answer all questions regarding our process. Our team prides itself on communicating all aspects of our program and providing full-personal attention to our clients.



Eurasian (left) vs. Northern watermilfoil

In addition to contacting us with any questions, one very important action you should take is to verify exactly which species of milfoil you are dealing with.

Differentiating between the various types of milfoil can be very difficult and require an expert. To complicate matters even more, Eurasian watermilfoil can hybridize with at least two of the native North American varieties of milfoil. Sometimes, the only way to definitively identify these hybrids is via genetic analysis.

Regardless, proper identification of your problem plant(s) is key to developing a successful management program. We can help by confirming the identity of the milfoil present in your lake. Where hybridization of the milfoil may be an issue, we can arrange for genetic testing of your samples.

Milfoil Species

Eurasian watermilfoil

(Myriophyllum spicatum)



- White to pink stem
- 3 to 6 leaves per whorl
- 14 to 20 pairs of leaflets

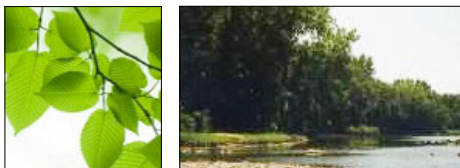
[Click here to read the complete Aquatic Plant Identification white paper](#)



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EnviroScience performs ecological monitoring, toxicology, commercial diving, lake management and emergency response for transportation and other industries.



ABOUT ENVIROSCIENCE, INC.

For over twenty years, EnviroScience has provided highly specialized services to federal, state, and municipal government agencies as well as industrial, engineering and private sector clients. From biomonitoring and environmental compliance support to underwater inspections and diving services, our reputation for excellence has been built one project at a time - with technically-sound protocols, detailed reports, and superior client service.

EnviroScience performs ecological monitoring, toxicology, commercial diving, lake management and emergency response for transportation and other industries.

EnviroScience has assembled a comprehensive team of biologists to provide environmental services throughout the United States. The company was created with the concept that a small, specialized biology firm could offer cost-effective, high quality services by eliminating the overhead of a larger parent company. This concept still holds true today, as our scientists explore the latest in environmental legislation and regulations and incorporate the most up to date technology to gather and report data. Despite tremendous growth, our services remain tightly focused and technically comprehensive. Since 1989, EnviroScience has supported environmental design and regulatory requirements servicing federal, state and municipal governments, as well as industrial, engineering and private clients.

EnviroScience continues to grow and currently consists of three divisions.

- **Bioassay:** Starting as a bioassay laboratory, the company gained a reputation for providing quality testing at competitive prices.
- **Ecological Biomonitoring:** As business expanded into surrounding states, clients began to request additional biomonitoring services. In response, EnviroScience formed a very specialized Ecological Division with a multi-disciplinary staff of highly trained biologists. The division offers a wide range of ecological services including aquatic surveys, wetland delineations, terrestrial surveys, and mussel surveys.
- **Milfoil Lake Management:** Aspiring to stay at the forefront of environmental design, EnviroScience added a Lake Management division featuring the exclusive Milfoil Solution® program. The division leads the way in biocontrol and is staffed with experts in watershed and lake management. All three of the divisions have been successful in working together to provide an extensive matrix of environmental services.

Contact us today for help with your environmental problems.

[Click here to read all of our white papers](#)



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