EnviroScience INCORPORATED

Puslinch Lake, Ontario

I believe that EnviroScience and their Milfoil Solution saved our lake. I know that is a pretty strong statement. As Past-President of the St. Helen Lake Association I feel that strongly about the fantastic job that EnviroScience did with their Milfoil Solution.

Lake St. Helen, a 2400 acre lake situated in Northern Michigan, was quickly becoming a swamp until we decided to contract with EnviroScience to help us combat the milfoil using an “eco-friendly” solution. Their ‘can do’ attitude and willingness to work with us to come up with a workable and affordable plan made for a positive and rewarding relationship.

- John Bawol

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PUSLINCH LAKE, CAMBRIDGE, ONTARIO

Lake Management and The Milfoil Solution®

In the late 1990s, Eurasian watermilfoil began to dominate the plant community and within a few years became a serious threat to property values and the continued use of the lake for recreational activities. In response to this threat, in 2006 the Puslinch Lake Conservation Association (PLCA) began a three year Milfoil Solution® program.

Approximately 12,000 weevils were stocked in 2006, 24,000 in 2007, and an additional 6,000 being stocked in 2008.

At the start of the project, average milfoil density was over 400 stems per square meter.

Dense, topped-out milfoil dominated more than 70% of the lake's surface area, making this lake one of the most challenging projects ever attempted by EnviroScience and its milfoil weevils.

Although 2006 and 2007 late-summer follow-up surveys revealed that the weevils had become established and were increasing their number, it wasn't until 2008 that dramatic changes to the plant community were noted. By July 2008, dense milfoil beds no longer covered large portions of the lake. In fact, very little milfoil was noted at the surface.

Puslinch Lake located near Cambridge in Southern Ontario is a very shallow (average depth less than 5 feet) recreational lake well known for water skiing, fishing and winter sports. The lake is approximately 400 acres (163 hectares) and surrounded by permanent residences.

Western Portion of Puslinch Lake - July 2007

Western portion of Puslinch Lake July 2008

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Lake Management and The Milfoil Solution®

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.

Mud Bay Puslinch Lake - July 2007

Mud Bay Puslinch Lake - July 2008

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PUSLINCH LAKE, CAMBRIDGE, ONTARIO

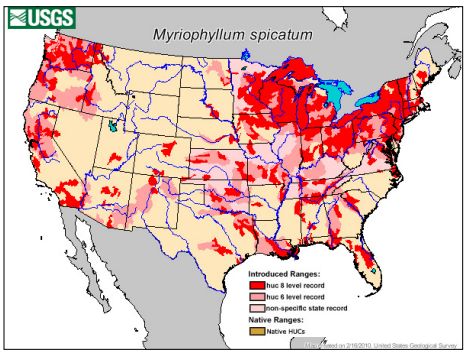
Lake Management and The Milfoil Solution®

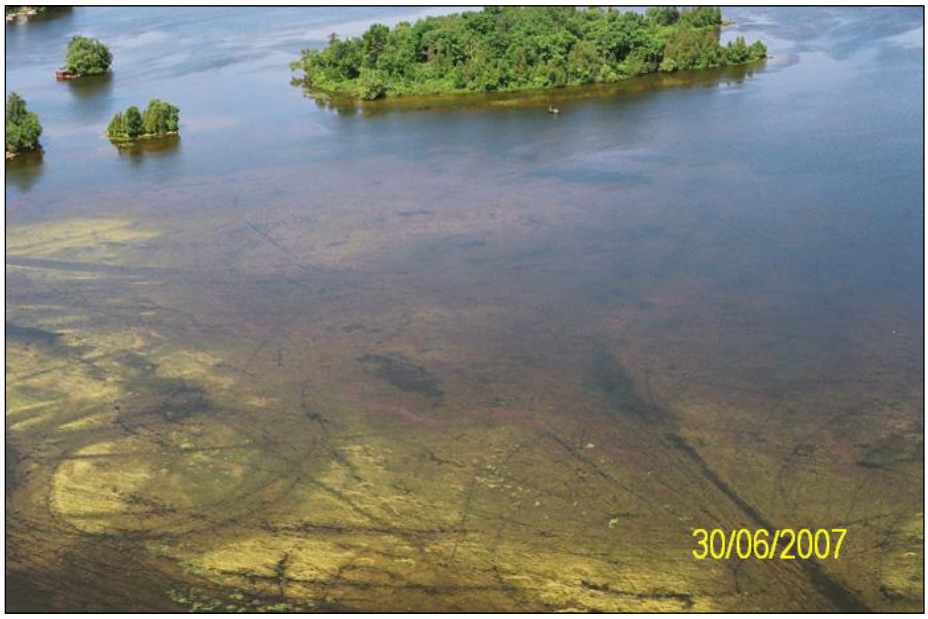
The Milfoil Weevil

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.





Eastern Bay Puslinch Lake - July 2007

Eastern Bay Puslinch Lake - July 2008

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AQUATIC PLANT IDENTIFICATION

Why is Identification Important?

How to Send Us a Sample or Photograph for Identiication

Send Digital Photos via E-mail:

Select the top 10-12 inches of 2-4 plant samples, lay them in a light colored 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:

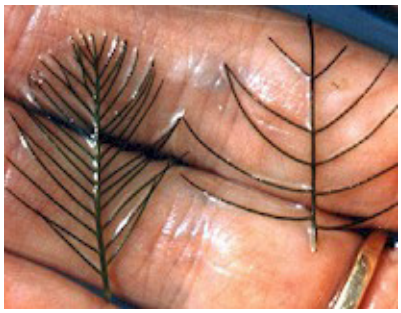
EnviroScience, Inc.
Attn: Lake Management
3781 Darrow Rd.
Stow, OH 44224

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 hybird 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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