

October 21, 2009



Tri-Lakes Association
C/O Bill Iwen
E5401 12th Road
Algoma, Wisconsin 54201

Re: Aquatic Plant Management Report for Tri-Lakes
Client: Tri-Lakes Association
Client Project No.: 004020-09002-0

Dear Tri-Lakes Association members:

The Tri-Lakes Association (the Association) is a group responsible for the management of East and West Alaska Lakes' and Krohns Lake's aquatic invasive species (AIS), *Myriophyllum spicatum* (Eurasian watermilfoil – EWM) and *Potamogeton crispus* (curly-leaf pondweed - CLP). Bonestroo, Inc (formerly Northern Environmental) was contacted by the Association to provide a chemical herbicide treatment and survey of these AIS. Bonestroo furnished all labor, materials, tools and equipment necessary to perform all operations in connection with the chemical application of herbicides in select locations of the Tri-Lakes. This report provides a summary of observations, conclusions and recommendations for the chemical treatment of AIS growth for 2009 and upcoming 2010 season.

PROJECT SUMMARY

This Aquatic Plant Management Report was produced as part of the aquatic plant management of East Alaska, West Alaska, and Krohns Lakes for 2009. The goal of the project was to control stands of EWM and CLP, encourage growth of native aquatic plants that are out competed by AIS, help improve the health of the lake ecosystem by restoring native habitat, and improve the recreational and aesthetic value of the three lakes. The report reviews existing and historical data for the lakes and activities that were conducted during 2009.

BACKGROUND

The Tri-Lakes consists of three lakes, Krohns, East Alaska, and West Alaska, in the town of Pierce, Kewaunee County, Wisconsin. The characteristics of each lake are described below.

Lake	Type	Surface Area (acres)	Max Depth (ft)	Shoreline (mi)
East Alaska	Seepage	53	41	1.4
West Alaska	Seepage	20	50	1.03
Krohns	Spring	21	38	0.88

Eurasian water-milfoil (*Myriophyllum spicatum* – EWM) was confirmed in the Tri-Lakes in 1993 by the Wisconsin Department of Natural Resources (WDNR). Northern Environmental completed aquatic plant surveys on Krohns and West Alaska Lakes in 2003 and observed EWM. No management efforts were implemented for Aquatic Invasive Species (AIS) control until 2005 when approximately 1.93 acres of EWM and 0.2 acres of CLP were chemically treated across the Tri-Lakes. The WDNR completed an aquatic plant survey on Krohns Lake in 2006 and did not observe EWM

Northern Environmental completed an AIS evaluation plant survey in May 2007 and observed CLP in all three lakes but no EWM was observed. WDNR conducted an aquatic plant survey on Krohns Lake in 2007 and observed EWM at one sample location. Northern Environmental completed an Aquatic Invasive Species Prevention and Control Strategy (AISPCS) for the Association in 2007 using data from the aforementioned surveys. The 2007 AISPCS outlines actions for aquatic plant management and areas appropriate for chemical treatment.

Only CLP was managed and treated in 2008 with 1.00 acre treated across all three lakes. No EWM was not noticed during the pre-treatment survey, but was found on Krohns Lake and East Alaska Lake during the post-treatment surveys, prompting management actions of EWM for 2009.

2009 AQUATIC PLANT MANAGEMENT

The Association contracted Bonestroo for the 2009 chemical treatment of EWM and/or CLP. Tri-Lakes Association was successfully issued a permit to chemically treat up to 5.5 cumulative acres of EWM and/or CLP for the 2009 season by the Wisconsin Department of Natural Resources (WDNR). Permitted acres per lake are as follows: Krohns Lake – 1.0 acre of EWM and 0.5 acres of CLP, West Alaska Lake – 1.0 acre of EWM and 0.5 acres of CLP, East Alaska Lake – 1.5 acres of EWM and 1.0 acres of CLP. Copies of the permits are included in Attachment A.

Before treatments began, a pre-treatment survey was necessary to verify the presence of EWM and/or CLP within the proposed treatment areas outlined in the permit. The survey was completed on May 11, 2009. On East Alaska Lake, no CLP was present with only 0.75 acres of EWM mapped, 0.25 acres of CLP was present on West Alaska Lake, and 0.5 acres of EWM was mapped on Krohns Lake.

Chemical treatment of all areas mapped during the pre-treatment survey was completed on June 1, 2009. All areas mapped during the pre-treatment survey were treated appropriately. For EWM growth, DMA 4[®] was applied at a rate of 1.0 ppm per acre foot (approximately four gallons per acre). Areas of CLP growth were treated with Aquathol K[®] at a rate of 1.0 – 1.5 (approximately four gallons per acre). The products were selected in order to ensure adequate contact and control of target vegetation. In compliance with regulations, treatment records were completed and are included in Attachment B. Treatment areas are shown in Figures 1-3.

In accordance with the treatment process, a post-treatment survey was conducted on July 23, 2009 to verify treatment success. During the post-treatment survey, remaining and new areas of EWM and CLP were mapped, as shown in Figures 1-3.

RESULTS

The affect of the chemical treatment was determined by examining the relative abundance and distribution of remaining aquatic macrophytes following treatment. Treatment on West Alaska Lake showed a 100% success rate as no CLP was found during the post treatment survey. However, since turions (reproductive structures of CLP) can survive in lake sediment for five or more years, historical areas of CLP totaling 0.12 acres was mapped to be surveyed in 2010 prior to treatment to verify the presence of absence of CLP (Figure 1). East Alaska Lake was treated for 0.75 acres in 2009 with 0.36 acres remaining after treatment (a 52% success rate). All remaining areas of EWM are within shallow water (3 feet or less – Figure 2). Krohns Lake was treated for 0.5 acres of EWM. Though surveying of the treatment area found no remaining EWM (100% success), further exploration of historical AIS areas located a 0.9 acre area containing both EWM and CLP (Figure 3).

In total, areas treated for EWM across all three lakes totaled 1.25 acres while 0.36 acres remained within treatment areas (71% success). Curly-leaf pondweed was treated on West Alaska Lake only with no plants found during the post-treatment survey and a 0.12 acre area of historical CLP presence mapped for expected 2010 CLP growth. New AIS locations were found in Krohns Lake and totaled 0.9 acres.

MANAGEMENT SUGGESTIONS

It is important that appropriate management actions continue on a yearly basis to ensure that nuisance invasive aquatic plant growth does not reach unmanageable levels. As seen in 2009, aquatic plant growth specifically EWM and CLP were reduced from levels seen prior to management activities within treated areas. Though CLP was not found during the post-treatment survey in treated areas, historical growth areas of CLP should be re-examined next spring. CLP turions can persist in lake bed sediments for upwards of five years and are not affected by treatment activities unless actively growing. Some re-growth of CLP is expected by next year. Currently, multiple-year treatments of the same area have reduced the plant. 1.02 acres of CLP were mapped for treatment in 2010. Of these areas, 0.12 acres are historical beds on West Alaska Lake and 0.90 acres are new beds on Krohns Lake.

1.26 acres of EWM were mapped during the fall survey across all lakes. This is less than what has historically been in the Lakes within the past five years. East Alaska Lake contains 0.36 acres and Krohns Lake has 0.90 acres of EWM. All areas of EWM are recommended to be treated in 2010.

In light of the past year's chemical treatment success, we recommend continued surveys, mapping, and chemical treatment of EWM and CLP in 2010 to ensure control. Though both AIS have been reduced from historical levels, complete extirpation of these AIS from the Tri-Lakes is unlikely. Current populations of AIS will fluctuate yearly and control actions should be altered accordingly. It is possible, if the Association is interested, as AIS populations come under control to a small and more manageable size, that Association members can monitor the lake for historic and new AIS infestations and contract with a qualified consultant on as needed basis, as a cost saving measure.

Because of the Association's proactive approach in dealing with AIS, the current populations of CLP and EWM within the Tri-Lakes are dwindling while native plants are reestablishing in numbers and diversity, improving the health and use opportunities of the lakes. However, the Tri-Lakes Association should continue to be involved in some type of aquatic plant management program to help manage nuisance aquatic plant growth of EWM and CLP posing recreational hazards to riparian property owners and visitors. EWM and CLP are extremely opportunistic plants and can grow to nuisance levels in a very short period of time. Continued management must occur to ensure the health, aesthetic and recreational value of the lake is not degraded.

The Tri-Lakes Association must remain proactive in their approach. With the Association's continued commitment to ensuring the health, aesthetic, and recreational values of East Alaska, West Alaska, and Krohns Lake are preserved with active aquatic plant management, the quantity of nuisance aquatic plant growth and exotic species such as EWM and CLP found on the lakes will be appropriately controlled.

Bonestroo appreciates working for the Association this past treatment season and we look forward to working with you on future projects. Please feel free to contact Bonestroo at (800) 498-3921 if you have any questions regarding the 2009 chemical treatment or with additional questions or concerns.

Sincerely,

BONESTROO



James T. Scharl
Graduate Scientist/WI Licensed Applicator

Attachments

FIGURES

2009 POST-TREATMENT RESULTS



DATE OF SURVEY: 07-23-09



330 South 4th Avenue, Park Falls, Wisconsin 54552
 Phone: 800-498-3913 Fax: 715-762-1844

This drawing and all information contained thereon is the property of Bonestroo. Bonestroo will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

WEST ALASKA LAKE
 POST TREATMENT SURVEY
 2009

TRI-LAKES ASSOCIATION
 WEST ALASKA LAKE
 KEWAUNEE COUNTY, WISCONSIN

DATE: 10/20/09	DRAWN BY: NLB	TASK NUMBER: XXX	PROJECT NUMBER: 004020-09002-0	FIGURE 1
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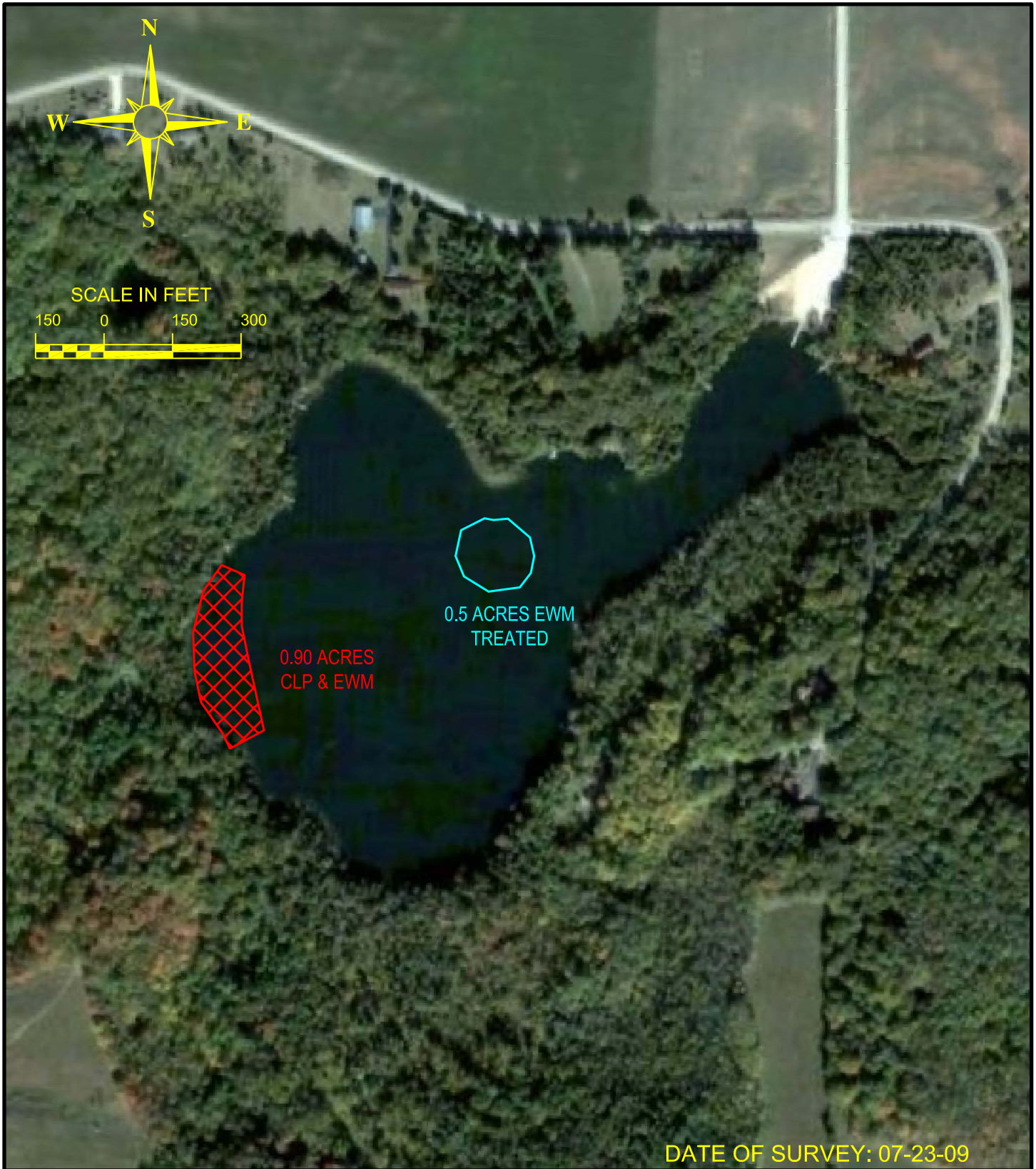
330 South 4th Avenue, Park Falls, Wisconsin 54552
 Phone: 800-498-3913 Fax: 715-762-1844

This drawing and all information contained thereon is the property of Bonestroo. Bonestroo will not be held liable for improper or incorrect usage. Professional seals and signatures do not apply to electronic drawing files. The user assumes all responsibility and risk for the accuracy and verification of all information contained in electronic files.

**EAST ALASKA LAKE
 POST TREATMENT SURVEY
 2009**

**TRI-LAKES ASSOCIATION
 EAST ALASKA LAKE
 KEWAUNEE COUNTY, WISCONSIN**

DATE: 10/20/09	DRAWN BY: NLB	TASK NUMBER: XXX	PROJECT NUMBER: 004020-09002-0	FIGURE 2
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DATE OF SURVEY: 07-23-09



330 South 4th Avenue, Park Falls, Wisconsin 54552
 Phone: 800-498-3913 Fax: 715-762-1844

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KROHN'S LAKE
 POST TREATMENT SURVEY
 2009

TRI-LAKES ASSOCIATION
 KROHN'S ALASKA LAKE
 KEWAUNEE COUNTY, WISCONSIN

DATE: 10/20/09	DRAWN BY: NLB	TASK NUMBER: XXX	PROJECT NUMBER: 004020-09002-0	FIGURE 3
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ATTACHMENT A

WDNR CHEMICAL AQUATIC PLANT CONTROL PERMITS



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
2984 Shawano Ave.
Green Bay, Wisconsin 54313-6727
Telephone 920-662-5100
FAX 920-662-5413
TTY Access via relay - 711

April 24, 2009

Tri-Lakes Association
C/O Bill Iwen
E5401 12th Road
Algoma, WI 54201

Permit No: NER-09-098-31
Fee received: \$120.00

Subject: 2009 permit to chemically treat aquatic plants in East and West Alaska Lakes, Kewaunee County.

Dear Tri-Lakes Association:

The Department has received and reviewed your application to chemically treat invasive aquatic plants (Curly-leaf pondweed and Eurasian watermilfoil) in up to 4 acres in East and West Alaska Lakes in Kewaunee County. Your permit application meets the minimum requirements by law and a permit is being issued. Issuance of the permit is not an endorsement or approval for the actions authorized. The permit is being issued subject to the permit conditions listed below.

PERMIT CONDITIONS

1. Pesticide application warning sign postings must be visible from both the water and shore per NR 107.08(7)(a).
2. Treatment for Curly-leaf Pondweed and Eurasian Watermilfoil must be completed when the water temperature is near 60°F, or before turions and native plants have become established. If the temperature is too warm (68°F+) and/or turions and native plants have become established, treatment may be postponed or denied. Aquathol K treatment rates can not exceed 1.5 mg/l.
3. You must notify Mary Gansberg of the Department of Natural Resources at 920-662-5489 at least 4 working days prior to treatment.
4. The permit holder, according to NR 107.08(8), shall submit the enclosed Aquatic Plant Management Treatment Record for treatment as follows:
 1. Immediately, if any unusual circumstances occur during treatment.
 2. Within 30 days, if treatment occurs.
 3. By October 1 of this year if no treatment occurred.

E & W D.I. Lakes

State of Wisconsin
 Department of Natural Resources
 Aquatic Plant Manager

PERMIT APPLICATION FOR CHEMICAL
 AQUATIC PLANT CONTROL
 Form 3200-4 Rev.3-99

DNR USE ONLY	
ID Number	NEK-09-098-31
County Code	31
Waterbody Number	94200+94300

NOTE: Use of this form is required by the Department for any application field pursuant s. 281.17(2), Wis. Stats. And Chapter NR 107, Wis. Adm. Code. The Department will not consider your application unless you complete and submit this application form. Personally identifiable information requested on this form is not likely to be used for purposes, other than that for which it is originally being collected.

SECTION I. APPLICATION DATA

Name of Permit Applicant. (Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.

Home Address	Name Northern Environmental Technologies, Inc. Consultant for:	Lake Address	Name Tri-Lakes Association C/o Bill Iwen
	Street or Route 1203 Storbeck Drive		Street or Route E5401 12 th Road
	City, State, Zip Waupun, WI 53963		City, State, Zip Algoma, WI 54201
	Telephone Number (include area code) 920-324-8600		Telephone Number (include area code) See Consultant for More Information.

SECTION II. LOCATION OF PLANT CONTROL

Waterbody To Be Treated (waterbody where treatment area is located) East Alaska and West Alaska Lakes	Lake Surface Area 53 & 20 ac. respectively	Estimated Surface Area That Is 10 Feet or Less in Depth 12 acres total
County Kewaunee	Names of Adjacent Riparian Property Owners (use additional sheets if necessary)	
Township Range Section 24N 25E 19 & 20	1. All participants are riparian property owner's of Tri-Lakes Association	
Name of Applicator or Firm Northern Environmental Technologies, Inc.	2.	
Street or Route 1203 Storbeck Drive	3.	
City, State, Zip Code Waupun, Wisconsin 53963	Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate)	
Telephone Number (include area code) Business: 920-324-8600 Business: 800-498-3921	Bill Iwen	
Applicator Certification Number for Category 5, Aquatic Pesticide Application 077803	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
Business Location License Number (if applicable) 93-013597-011079		Date Verified w/ DATCP Expiration Date
Restricted Use Pesticide License Number		Date Verified w/DATCP Expiration Date

Area(s) proposed for Control (Note details in permit cover letter for final permitted sizes of treatment areas.)

- A. Shore Length ft. x Distance From Shore ft. / 43,560 ft = Estimated Acreage. Average Depth ___ ft.
- B. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- C. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- D. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- E. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- F. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.

Total Estimated Acreage=4.0 Acres

If the estimated acreage is greater than 10 acres, or is greater than 10 percent of the estimated are 10 feet or less in depth in Section II, please complete and attach Form 3200-4A, Large Scale Treatment Worksheet. Private pond treatments are exempted from this requirement.

Is this area within or adjacent to a sensitive area designated by the Department of Natural Resources?
 Yes No

SECTION IV. REASONS FOR AQUATIC PLANT CONTROL

<p>Purpose of aquatic Plant Control</p> <p><input type="checkbox"/> 1. Reduce nuisance algae accumulation</p> <p><input checked="" type="checkbox"/> 2. Maintain navigation channel for common use</p> <p><input checked="" type="checkbox"/> 3. Maintain private access for boating</p> <p><input checked="" type="checkbox"/> 4. Maintain private access for fishing</p> <p><input checked="" type="checkbox"/> 5. Improve swimming</p> <p><input type="checkbox"/> 6. Control of purple loosestrife</p> <p><input checked="" type="checkbox"/> 7. Other: Prevent spread and infestation of curly-leaf pondweed</p>	<p>Nuisance Caused By</p> <p><input type="checkbox"/> 1. Algae</p> <p><input type="checkbox"/> 2. Emergent water plants (majority of leaves and stems growing above water surface, e.g. cattails, buhushes)</p> <p><input type="checkbox"/> 3. Floating water plants (majority of leaves floating on water surface, e.g. waterlilies, duckweed)</p> <p><input checked="" type="checkbox"/> 4. Submerged water plants (leaves and stems below water surface, flowering parts may be exposed, e.g., EWM)</p> <p><input type="checkbox"/> 5. Other: _____</p>
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Name of Plants, if known

NOTE: Different plants require different chemicals for effective treatment. Do not purchase chemical before identifying plants.

Target Species: Curly Leaf Pondweed & Eurasian water-milfoil

SECTION V. CHEMICAL CONTROL

Alternatives to Chemical Control	Feasible?	If No, Why Not?
1. Mechanical harvesting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Spreads plant debris and they can not get in shallow waters</u>
2. Hand pulling	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense</u>
3. Hand raking	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense</u>
4. Hand cutting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense</u>
5. Sediment screens/covers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not effective</u>
6. Dredging	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too costly</u>
7. Lake drawdown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not a control option for immediate concerns</u>
8. Nutrient controls in watershed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not a control option for immediate concerns</u>
9. Other:	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	

NOTE: If proposed treatment involves multiple properties, please consider feasibility of EACH alternative for EACH property owner. If you checked yes to any of the alternatives listed above, please explain your decision to use chemical controls:

<p>Trade Name of Proposed Chemical(s)</p> <p>Aquathol K (CLP), and DMA 4 IVM (EWM)</p>	<p>Method of Application</p> <p>Northern Environmental's liquid application system.</p>
<p>Which Chemicals or Other Control Options Have Been Tried Before On The Proposed Site, and What Were the Results</p> <p>The proposed chemical has been used statewide to selectively control the target plant species present by our firm and has been successful in selectively controlling the target plant species currently present.</p>	

NOTE: Chemical fact sheets for aquatic pesticides used in Wisconsin are available from the Department of Natural Resources upon request.



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters
2984 Shawano Ave.
Green Bay, Wisconsin 54313-6727
Telephone 920-662-5100
FAX 920-662-5413
TTY Access via relay - 711

April 24, 2009

Tri-Lakes Association
C/O Bill Iwen
E5401 12th Road
Algoma, WI 54201

Permit No: NER-09-099-31
Fee received: \$70.00

Subject: 2009 permit to chemically treat aquatic plants in Krohns Lake, Kewaunee County.

Dear Tri-Lakes Association:

The Department has received and reviewed your application to chemically treat aquatic plants (Curly-leaf pondweed and Eurasian watermilfoil) in up to 1.5 acres in Krohns Lake in Kewaunee County. Your permit application meets the minimum requirements by law and a permit is being issued. Issuance of the permit is not an endorsement or approval for the actions authorized. The permit is being issued subject to the permit conditions listed below.

PERMIT CONDITIONS

1. **Pesticide application warning sign postings must be visible from both the water and shore per NR 107.08(7)(a).**
2. **Treatment for Curly-leaf Pondweed and Eurasian Watermilfoil must be completed when the water temperature is near 60°F, or before turions and native plants have become established. If the temperature is too warm (68°F+) and/or turions and native plants have become established, treatment may be postponed or denied. Aquathol K treatment rates can not exceed 1.5 mg/l.**
3. **You must notify Mary Gansberg of the Department of Natural Resources at 920-662-5489 at least 4 working days prior to treatment.**
4. **The permit holder, according to NR 107.08(8), shall submit the enclosed Aquatic Plant Management Treatment Record for treatment as follows:**
 1. **Immediately, if any unusual circumstances occur during treatment.**
 2. **Within 30 days, if treatment occurs.**
 3. **By October 1 of this year if no treatment occurred.**

PERMIT APPLICATION FOR CHEMICAL
 AQUATIC PLANT CONTROL
 Form 3200-4 Rev.3-99

DNR USE ONLY	
ID Number	NEK-09-099-31
County Code	31
Waterbody Number	94700

NOTE: Use of this form is required by the Department for any application filed pursuant s. 281.17(2). Wis. Stats. And Chapter NR 107, Wis. Adm. Code. The Department will not consider your application unless you complete and submit this application form. Personally identifiable information requested on this form is not likely to be used for purposes, other than that for which it is originally being collected.

SECTION I. APPLICATION DATA

Name of Permit Applicant. (Also indicate names and addresses of all individuals, associations, communities or town sanitary districts sponsoring treatment. Attach additional sheets if necessary.

Home Address	Name Northern Environmental Technologies, Inc. Consultant for:	Lake Address	Name Tri-Lakes Association C/o Bill Iwen
	Street or Route 1203 Storbeck Drive		Street or Route E5401 12 th Road
	City, State, Zip Waupun, WI 53963		City, State, Zip Algoma, WI 54201
	Telephone Number (include area code) 920-324-8600		Telephone Number (include area code) See Consultant for More Information.

SECTION II. LOCATION OF PLANT CONTROL

Waterbody To Be Treated (waterbody where treatment area is located) Krohns Lake	Lake Surface Area 21 acres	Estimated Surface Area That is 10 Feet or Less in Depth 3.15 acres
County Kewaunee	Names of Adjacent Riparian Property Owners (use additional sheets if necessary)	
Township Range Section 24N 25E 05	1. All participants are riparian property owner's of Tri-Lakes Association	
Name of Applicator or Firm Northern Environmental Technologies, Inc.	2.	
Street or Route 1203 Storbeck Drive	3.	
City, State, Zip Code Waupun, Wisconsin 53963	Name of Lake Property Owners' Association Representative or Lake District Representative (if none, please indicate Bill Iwen	
Telephone Number (include area code) Business: 920-324-8600 Business: 800-498-3921	DNR USE ONLY	Date Verified w/DATCP Certification Expiration
Applicator Certification Number for Category 5, Aquatic Pesticide Application 077803		Date Verified w/ DATCP Expiration Date
Business Location License Number (if applicable) 93-013597-011079		Date Verified w/DATCP Expiration Date
Restricted Use Pesticide License Number		

Area(s) proposed for Control (Note details in permit cover letter for final permitted sizes of treatment areas.)

- A. Shore Length See Map ft. x Distance From Shore See Map ft. / 43,560 ft = See Map Estimated Acreage. Average Depth ___ ft.
- B. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- C. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- D. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- E. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.
- F. Shore Length ___ ft. x Distance From Shore ___ ft. / 43,560 ft = ___ Estimated Acreage. Average Depth ___ ft.

Total Estimated Acreage=1.5 Acres

If the estimated acreage is greater than 10 acres, or is greater than 10 percent of the estimated are 10 feet or less in depth in Section II, please complete and attach Form 3200-4A, Large Scale Treatment Worksheet. Private pond treatments are exempted from this requirement.

Is this area within or adjacent to a sensitive area designated by the Department of Natural Resources?
 Yes No

SECTION IV. REASONS FOR AQUATIC PLANT CONTROL

<p>Purpose of aquatic Plant Control</p> <p><input type="checkbox"/> 1. Reduce nuisance algae accumulation</p> <p><input checked="" type="checkbox"/> 2. Maintain navigation channel for common use</p> <p><input checked="" type="checkbox"/> 3. Maintain private access for boating</p> <p><input checked="" type="checkbox"/> 4. Maintain private access for fishing</p> <p><input checked="" type="checkbox"/> 5. Improve swimming</p> <p><input type="checkbox"/> 6. Control of purple loosestrife</p> <p><input checked="" type="checkbox"/> 7. Other: Prevent spread and severe infestation of curly-leaf pondweed</p>	<p>Nuisance Caused By</p> <p><input type="checkbox"/> 1. Algae</p> <p><input type="checkbox"/> 2. Emergent water plants (majority of leaves and stems growing above water surface, e.g. cattails, buhushes)</p> <p><input type="checkbox"/> 3. Floating water plants (majority of leaves floating on water surface, e.g. waterlilies, duckweed)</p> <p><input checked="" type="checkbox"/> 4. Submerged water plants (leaves and stems below water surface, flowering parts may be exposed, e.g., EWM)</p> <p><input type="checkbox"/> 5. Other: _____</p>
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Name of Plants, if known

NOTE: Different plants require different chemicals for effective treatment. Do not purchase chemical before identifying plants.

Target Species: Curly Leaf Pondweed & Eurasian Water-milfoil

SECTION V. CHEMICAL CONTROL

Alternatives to Chemical Control	Feasible?	If No, Why Not?
1. Mechanical harvesting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Spreads plant debris and they can not get in shallow waters</u>
2. Hand pulling	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense</u>
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4. Hand cutting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too dense</u>
5. Sediment screens/covers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not effective</u>
6. Dredging	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Too costly</u>
7. Lake drawdown	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not a control option for immediate concerns</u>
8. Nutrient controls in watershed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Not a control option for immediate concerns</u>
9. Other:	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____

NOTE: If proposed treatment involves multiple properties, please consider feasibility of EACH alternative for EACH property owner. If you checked yes to any of the alternatives listed above, please explain your decision to use chemical controls:

Trade Name of Proposed Chemical(s)	Method of Application
Aquathol K (CLP) & DMA 4 IVM (EWM)	Northern Environmental's liquid application system.
Which Chemicals or Other Control Options Have Been Tried Before On The Proposed Site, and What Were the Results	
The proposed chemical has been used statewide to selectively control the target plant species present by our firm and has been successful in selectively controlling the target plant species currently present.	

NOTE: Chemical fact sheets for aquatic pesticides used in Wisconsin are available from the Department of Natural Resources upon request.

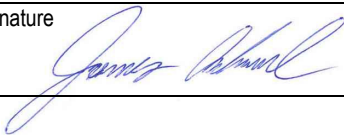
ATTACHMENT B

AQUATIC PLANT MANAGEMENT HERBICIDE TREATMENT RECORDS

NOTICE: Completion of this form is a condition of the permit and provides records required by WDNR (NR107) and DATCP (ATCP 29.21 and 29.22). The Department may not issue you future permits unless you complete and submit this form. Personally identifiable information required on this form is not likely to be used for purposes other than that for which it is originally being collected. It may also be made available to requesters under Wisconsin's Open Records Law [ss. 19.31 – 19.39, Wis. Stats.]

Submit this form: (1) immediately if any unusual circumstances occurred during treatment
(2) as soon after treatment as possible, no later than 30 days
(3) by October 1 if no treatment occurred

Completion of this form along with the permit satisfies the requirements of WDNR (NR107) and DATCP (ATCP29.21 and 29.22).

General Permit Information						
Permit Number NER-09-098-31		Waterbody Name (including ponds, e.g., Smith Pond) East & West Alaska Lakes				
County Kewaunee		Permit Holder Name Northern Environmental Technologies, Inc.				
Treatment Information						
Treatment Date 06/01/2009	Starting Time (24 hr) 10:00	Ending Time (24 hr) 12:00	Water Temp (°C) 16.6° C	Ambient Air Temp (°C) 18.3° C	Wind Speed (mph) 0-5 mph	Wind Direction NE
Other Conditions Noted (i.e., dead fish, spawning fish, algae bloom, etc.) None						
Onsite Supervision Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			If Yes, Supervisor Name			
Mixing and Loading Site Location (if other than business site or from prepackaged retail container or applied with equipment with a total capacity of not more than 5 gallons liquid or 50 pounds dry) Prepackaged Retail Containers						
Herbicide Treatment and Water Use Restriction Signs Posted In Accordance With NR 107? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Applicator shall provide each customer with a free copy of each pesticide label used (if requested)						
Applicator Information						
Individual Business Name Northern Environmental Technologies, Inc.				Telephone Number 920-324-8600		
Street Address 1203 Storbeck Drive						
City Waupun			State WI	Zip Code 53963		
Individuals Making Pesticide Application:		Last Name Nelson	First Kevin	Certification # 076523		
		Last Name Scharl	First James	Certification # 077803		
		Last Name	First	Certification #		
Name of Person Completing Form James T. Scharl			Signature 		Date Signed 06/04/2009	

Aquatic Plant Management Herbicide Treatment Record

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Sheet 2 of 2

Date: June 4, 2009

Treatment Site and Chemical Information (use attached additional site / herbicide sheet if necessary)								
Site No, Property Name, Address / Fire No	Treated Shoreline Length (ft)	Treated Distance Off Shore	Treated Acreage	Permitted Acreage (per property)	Sensitive Area:	Herbicide(s) Used / EPA Reg. Number(s)	Amount Applied (e.g., gals, lbs)	GPS Location Latitude / Longitude
East Alaska Lake			0.75	4.0	<input type="checkbox"/> Y	DMA4 IVM #62719-3	3.00 gal	
West Alaska Lake			0.25	4.0	<input type="checkbox"/> Y	Aquathol K #4581-204	1.00 gal	
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
TOTAL			1.00	4.00	<input type="checkbox"/> Y	Aquathol K #4581-204 DMA 4 IVM #62719-3	3.00 gal 1.00 gal	
					<input type="checkbox"/> Y			

Aquatics at Treatment Site: TS = Target Species SP = Species Present													
TS	SP	Site (s)	TS	SP	Site (s)	TS	SP	Site (s)	TS	SP	Other Aquatics	Site (s)	
<input type="checkbox"/>	<input type="checkbox"/>	cattail	<input type="checkbox"/>	<input type="checkbox"/>	white-stem pondwd	<input type="checkbox"/>	<input checked="" type="checkbox"/>	coontail	East & West	<input type="checkbox"/>	<input checked="" type="checkbox"/>	chara	East & West
<input type="checkbox"/>	<input type="checkbox"/>	yellow pond lily	<input type="checkbox"/>	<input type="checkbox"/>	flat-stem pondwd	<input type="checkbox"/>	<input checked="" type="checkbox"/>	elodea	East	<input type="checkbox"/>	<input type="checkbox"/>	small pondweed	
<input type="checkbox"/>	<input type="checkbox"/>	white water lily	<input type="checkbox"/>	<input type="checkbox"/>	floating-leaf pondwd	<input type="checkbox"/>	<input type="checkbox"/>	filamentous algae		<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	watershield	<input type="checkbox"/>	<input type="checkbox"/>	sago pondwd	<input type="checkbox"/>	<input type="checkbox"/>	richardson pondwd		<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	large-leaf pondwd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	e. milfoil	East	<input type="checkbox"/>	illinois pondwd		<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	curly-leaf pondwd	West	<input type="checkbox"/>	n. milfoil		<input checked="" type="checkbox"/>	planktonic algae	East & West	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	robbins pondwd		<input type="checkbox"/>	wild celery		<input type="checkbox"/>	spadderdock		<input type="checkbox"/>	<input type="checkbox"/>		

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General Permit Information						
Permit Number NER-09-099-31		Waterbody Name (including ponds, e.g., Smith Pond) Krohns Lake				
County Kewaunee		Permit Holder Name Northern Environmental Technologies, Inc.				
Treatment Information						
Treatment Date 06/01/2009	Starting Time (24 hr) 12:15	Ending Time (24 hr) 12:40	Water Temp (°C) 16.6° C	Ambient Air Temp (°C) 18.3° C	Wind Speed (mph) 0-5 mph	Wind Direction NE
Other Conditions Noted (i.e., dead fish, spawning fish, algae bloom, etc.) None						
Onsite Supervision Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			If Yes, Supervisor Name			
Mixing and Loading Site Location (if other than business site or from prepackaged retail container or applied with equipment with a total capacity of not more than 5 gallons liquid or 50 pounds dry) Prepackaged Retail Containers						
Herbicide Treatment and Water Use Restriction Signs Posted In Accordance With NR 107? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Applicator shall provide each customer with a free copy of each pesticide label used (if requested)						
Applicator Information						
Individual Business Name Northern Environmental Technologies, Inc.				Telephone Number 920-324-8600		
Street Address 1203 Storbeck Drive						
City Waupun			State WI	Zip Code 53963		
Individuals Making Pesticide Application:		Last Name	First			Certification #
		Nelson	Kevin			076523
		Last Name	First			Certification #
		Scharl	James			077803
		Last Name	First			Certification #
Name of Person Completing Form James T. Scharl			Signature 		Date Signed 06/04/2009	

Aquatic Plant Management Herbicide Treatment Record

Form 3200-111 (5/01)

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Sheet 2 of 2

Date: June 4, 2009

Treatment Site and Chemical Information (use attached additional site / herbicide sheet if necessary)

Site No, Property Name, Address / Fire No	Treated Shoreline Length (ft)	Treated Distance Off Shore	Treated Acreage	Permitted Acreage (per property)	Sensitive Area:	Herbicide(s) Used / EPA Reg. Number(s)	Amount Applied (e.g., gals, lbs)	GPS Location Latitude / Longitude
Krohns Lake			0.5	1.5	<input type="checkbox"/> Y	DMA4 IVM #62719-3	2.00 gal	
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
					<input type="checkbox"/> Y			
TOTAL			0.5	1.5	<input type="checkbox"/> Y	DMA 4 IVM #62719-3	2.00 gal	
					<input type="checkbox"/> Y			

Aquatics at Treatment Site: TS = Target Species SP = Species Present

TS	SP	Site (s)	TS	SP	Site (s)	TS	SP	Site (s)	Other Aquatics	Site (s)	
<input type="checkbox"/>	<input type="checkbox"/>	cattail	<input type="checkbox"/>	<input type="checkbox"/>	white-stem pondwd	<input type="checkbox"/>	<input type="checkbox"/>	coontail	<input type="checkbox"/>	<input checked="" type="checkbox"/>	chara
<input type="checkbox"/>	<input type="checkbox"/>	yellow pond lily	<input type="checkbox"/>	<input type="checkbox"/>	flat-stem pondwd	<input type="checkbox"/>	<input type="checkbox"/>	elodea	<input type="checkbox"/>	<input type="checkbox"/>	small pondweed
<input type="checkbox"/>	<input type="checkbox"/>	white water lily	<input type="checkbox"/>	<input type="checkbox"/>	floating-leaf pondwd	<input type="checkbox"/>	<input type="checkbox"/>	filamentous algae	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	watershield	<input type="checkbox"/>	<input type="checkbox"/>	sago pondwd	<input type="checkbox"/>	<input type="checkbox"/>	richardson pondwd	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	large-leaf pondwd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	e. milfoil	<input type="checkbox"/>	<input type="checkbox"/>	illinois pondwd	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	curly-leaf pondwd	<input type="checkbox"/>	<input type="checkbox"/>	n. milfoil	<input type="checkbox"/>	<input type="checkbox"/>	planktonic algae	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	robbins pondwd	<input type="checkbox"/>	<input type="checkbox"/>	wild celery	<input type="checkbox"/>	<input type="checkbox"/>	spadderdock	<input type="checkbox"/>	<input type="checkbox"/>	