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Section I: Application Type

Check one:

Education, Prevention & Planning Early Detection & Response Established Infestation Control

Legislative District Numbers		To determine your legislative district, go to http://165.189.139.210/WAML/ Type in complete address, next screen shows information.
Senate	Assembly	
7	74	

Section II: Applicant Information

Applicant <i>Callahan-Mud Lk Protective Assoc</i>		Type of Eligible Applicants			
Sponsor/Body Name <i>Callahan - Mud Lakes</i>		<input type="checkbox"/> County	<input type="checkbox"/> Tribe	<input type="checkbox"/> Other Gov't Unit	<input type="checkbox"/> Federal
Project County/Township/Section/Range <i>Sawyer, Round Lake 27-28-33-34</i>		<input type="checkbox"/> City	<input type="checkbox"/> Sanitary Dist.	<input type="checkbox"/> Nonprofit Org.	<input type="checkbox"/> State
Authorized Representative Named by Resolution <i>AL Zietlow</i>		<input type="checkbox"/> Village	<input type="checkbox"/> Dist.	<input type="checkbox"/> College, School, etc.	<input type="checkbox"/> Other
Authorized Representative Title <i>President</i>		<input type="checkbox"/> Town	<input checked="" type="checkbox"/> Assoc.		
Project Contact Name <i>AL Zietlow</i>		Project Contact Title <i>President of Assoc.</i>			
Address <i>3312 Bayview</i>		Address <i>10753 Callahan Lk Rd</i>			
City <i>Delafield</i>	State <i>WI</i>	ZIP Code <i>53018</i>	City <i>Hayward</i>	State <i>WI</i>	ZIP Code <i>54843</i>
Daytime Phone (area code) <i>414-254-1454</i>	Evening Phone (area code) <i>Same</i>	Daytime Phone (area code) <i>715-462-3143</i>	Evening Phone (area code) <i>Same</i>		
E-Mail Address <i>Alfredzietlow@yahoo.com</i>		E-Mail Address <i>Alfredzietlow@yahoo.com</i>			

Name and Title <i>Dave Robinson - Treasurer</i>		Address <i>P.O. Box 13040</i>			
Organization <i>Callahan-Mud Lk Protective Assoc</i>		City <i>Hayward</i>	State <i>WI</i>	ZIP Code <i>54843</i>	

For DNR Use Only

Application Type	Date Received <i>8-1-13</i>	Date Reviewed (AIS/LC/RC) <i>8-2-13</i>	AIS/Lake /River Coordinator Approval /Date <i>(AS)</i>		
Sponsor/Body ID# <i>2434800</i>	Adequate Public Access <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Environmental Grants Specialist Approval / Date		
Eligible Project <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Eligible Applicant <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Project Priority Rank	Research / Demo Project <input type="checkbox"/> Yes <input type="checkbox"/> No	
Project Grant Award(s) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fiscal Year(s)	Amount Received To Date \$	Project Awarded <input type="checkbox"/> Yes <input type="checkbox"/> No		

**Aquatic Invasive Species (AIS) Control
Grant Application**
Form 8700-307 (5/09)

Section III: Project Information

Project Title Callehon - Mud Lakes EWM Controll Proposed Ending Date 6-30-2016

Other Management Units	Letter of Support	Other Management Units	Letter of Support
1. <u>Sawyer Co AIS - Office</u>	<input checked="" type="checkbox"/>	4.	<input type="checkbox"/>
2.	<input type="checkbox"/>	5.	<input type="checkbox"/>
3.	<input type="checkbox"/>	6.	<input type="checkbox"/>

Section IV: Public Access

Number of Public Vehicle Trailer Parking Spaces Available at Public Access Sites: 10

Number of Public Access Sites Including Boat Launches and Walk-ins: 2

Section V: Cost Estimate and Grant Request

**Section V must be completed or application will be returned.
Details in support of Section V are welcome.**

	Project Costs		
	Column 1 Cash Costs	Column 2 Donated Value	DNR Use Only
1. Salaries, wages and employee benefits	<u>\$ 2,800.⁰⁰</u>	<u>2800.⁰⁰</u>	
2. Consulting services	<u>4500.⁰⁰</u>		
3. Purchased services—printing and mailing			
4. Other purchased services (specify): <u>Chemicals / Application</u>	<u>37,800.⁰⁰</u>		
5. Plant material			
6. Supplies (specify) <u>EWM Marker Buoys</u>	<u>500</u>	<u>1375.⁰⁰</u>	
7. Depreciation on equipment			
8. Hourly equipment use charges			
9. State Lab of Hygiene (SLOH) Costs			
10. Non-SLOH Lab Costs			
11. Other (specify) <u>DNR - Permits</u>	<u>1240.⁰⁰</u>		
12. Subtotals (sum each column)	<u>\$ 44,040.⁰⁰</u>	<u>4255</u>	
13. Total Project Cost Estimate (sum of column 1 plus sum of column 2)	<u>\$ 48,295.⁰⁰</u>		
14. State Share Requested (up to 75% of total costs may be requested)	<u>\$ 36,221.⁰⁰</u>		

Subject to the following maximum grant amounts:

- Education, Prevention and Planning Projects—up to \$150,000
- Early Detection and Response Projects—up to \$20,000
- Established Infestation Control Projects—up to \$200,000

Section VI: Attachments (check all that are included)

A. For all applicants: (Refer to instructions for applicability.)

- 1. Authorizing resolution - Attachment # 1
- 2. Letters of support Sawyer Co - AIS - Coordinator
- 3. Map of project location and boundaries
- 4. Lake map or river segment with public access sites identified (per Section IV of this application)
- 5. Itemized breakdown of expenses
- 6. For projects that entail sending samples to the State Laboratory of Hygiene (SLOH) only: a completed SLOH Projected Cost Form
- 7. Project scope/description:
 - a. Description of project area
 - b. Description of problem to be addressed by project
 - c. Discussion of project goals and objectives
 - d. Description of methods and activities
 - e. Description of project products or deliverables
 - f. Description of data to be collected, if applicable
 - g. Description of existing and proposed partnerships
 - h. Discussion of role of project in planning and/or management of lake
 - i. Timetable for implementation of key activities
 - j. Plan for sharing project results
 - k. Other information in support of project not described above

B. For applicants that are Lake Management Organizations (LMOs), River Management Organizations (RMOs) or Qualified Non-profit Organizations:

- 1. For first time applicant LMOs/RMOs only: A completed Form 8700-226 (Lake Association Organizational Application) or 8700-287 (River Management Organization Application)
- 2. For first time applicant Qualified Nonprofit Organizations only: Copy of IRS 501(c)(3) determination letter and copies of your Articles of Incorporation and Bylaws
- 3. List of national and/or statewide organizations with which you are affiliated
- 4. List of board members' names, including municipality and county of residence. Designate officers
- 5. Documentation of current financial status
- 6. Brochures, newsletters, annual reports or other information about your organization

C. Education, Prevention and Planning Projects: (No additional attachments required.)

D. Early Detection and Response Projects:

- 1. APM Permit application

E. Established Infestation Control Projects:

- 1. Management Plan
- 2. APM Permit application

Section VII: Certification

I certify that information in this application and all its attachments are true and correct and in conformity with applicable Wis. Statutes.

Print/Type Name of Authorized Representative Alfred Zietlow	Title of Authorized Representative President - Cellulose-Mat Lk Protective A
Signature of Authorized Representative <i>Alfred Zietlow</i>	Date Signed 7-30-2013

1

Callahan-Mud Lakes Protective Association

P.O. Box 13040

Hayward, Wisconsin 54843

The membership of the Callahan/Mud Lake Protective Association at

The JULY 6th meeting authorized the President of the Association to be its Agent

To:

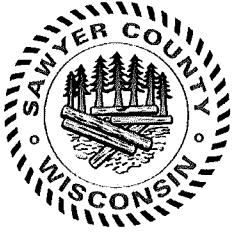
- A. Submit application to the State of Wisconsin for financial aid
For aquatic invasive species control purposes;**
- B. Sign Documents**
- C. Take necessary action to undertake, direct and complete an approved
Aquatic invasive species control grant;**
- D. Submit reimbursement claims along with necessary supporting
Documentation within six months of the project completion date.**

The Association agrees to meet its obligation of 25% payment commitment
To aquatic invasive species control project costs.

Action: July 6th

By: Donna Caywood (signed)

Secretary of Callahan/Mud Lakes
Protective Association



SAWYER COUNTY ZONING & CONSERVATION DEPARTMENT

10610 MAIN STREET SUITE 49 • HAYWARD, WISCONSIN 54843

Phone (715) 634-8288 • Fax (715) 638-3277

Email: conservation@sawyercountygov.org

Website: www.sawyercountygov.org

Toll Free Courthouse/General Information 1-877-699-4110

July 31, 2013

Alex Smith
Lake Management Coordinator
Northern Region
Wisconsin DNR
810 W. Maple St.
Spooner, WI 54801

Re: Callahan Lake Protective Association AIS grant proposal

Dear Mr. Smith,

As the Sawyer County Aquatic Invasive Species Coordinator, I support the grant proposal being submitted by the Callahan Lake Protective Association. I have been working with the Callahan/Mud Lake organization for many years and am impressed at their dedication and persistence in keeping Eurasian watermilfoil in check. The Eurasian watermilfoil has responded well to herbicide control treatments and the lake association has done a good job in continuing to survey and monitor the EWM. The continuation of EWM control on Callahan and Mud Lakes is important to the habitat of the lakes and follows their Aquatic Plant Management Plan.

The proposed project takes place on a significant AIS water source, has multiple resorts, roadside access, includes training property owners on hand pulling techniques, and proposes multiple ways of educating property owners and visitors.

I hope the WI DNR looks favorably on this grant proposal.

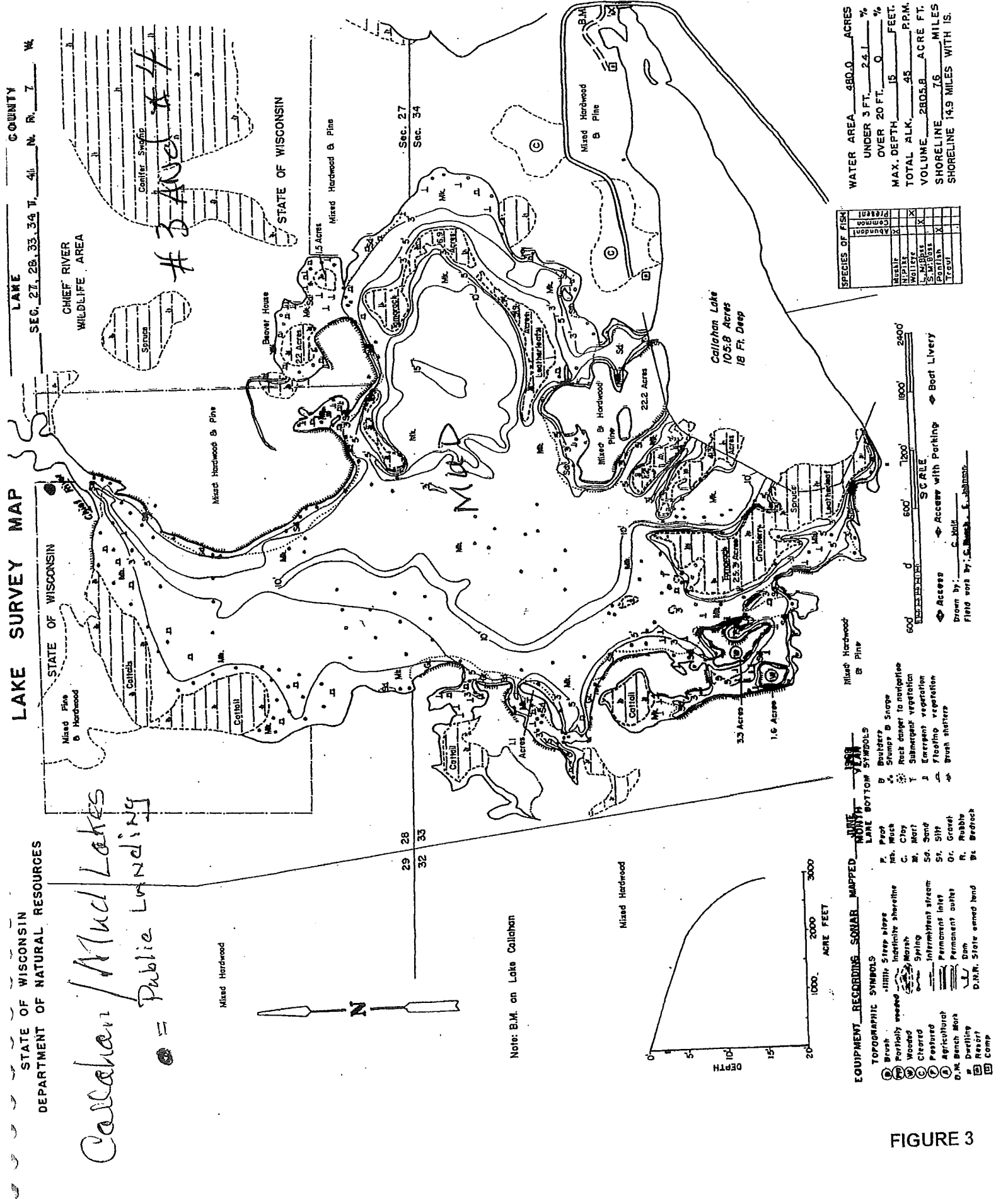
Sincerely,

A handwritten signature in black ink, appearing to read "Kristine C. Maki".

Kristine Maki
Sawyer County AIS Coordinator

Callahan / Mud Lakes
Public Landings

#3 AND #4



WATER AREA 480.0 ACRES
 UNDER 3 FT. 2.41 %
 OVER 20 FT. 0 %
 MAX. DEPTH 15 FEET
 TOTAL ALK. 45 P.P.M.
 VOLUME 2805.8 ACRE FT.
 SHORELINE 76 MILES
 SHORELINE 14.9 MILES WITH IS.

SPECIES OF FISH	Present		Abundant	
	X	✓	X	✓
Muskie	X		X	
Walleye	X		X	
Yellow Perch	X		X	
Smallmouth Bass	X		X	
Rock Bass	X		X	
Trout	X		X	

Scale: 0 500 1000 1500 2000
 Access with Parking → Boat Livery
 Access → Boat Livery
 Drawn by: C. J. J. J.
 Field work by: S. J. J. J.

- EQUIPMENT RECORDING SYMBOLS**
- Partially wooded
 - Wooded
 - Cleared
 - Pastured
 - Agricultural
 - Ditch
 - Resort
 - Camp
- TOPOGRAPHIC SYMBOLS**
- Steep slope
 - Indefinite shoreline
 - Marsh
 - Spring
 - Intermittent stream
 - Permanent inlet
 - Permanent outlet
 - Dam
 - State owned land
- LAKE BOTTOM SYMBOLS**
- Peat
 - Mud
 - Clay
 - Marl
 - Sand
 - Silt
 - Gravel
 - Rubble
 - Bedrock
- OTHER SYMBOLS**
- Boulders & Stumps
 - Rock danger to navigation
 - Submerged vegetation
 - Emergent vegetation
 - Floating vegetation
 - Brush shelters

Note: B.M. on Lake Callahan

FIGURE 3

Lake Predicted EWM Treatment Zones

Example

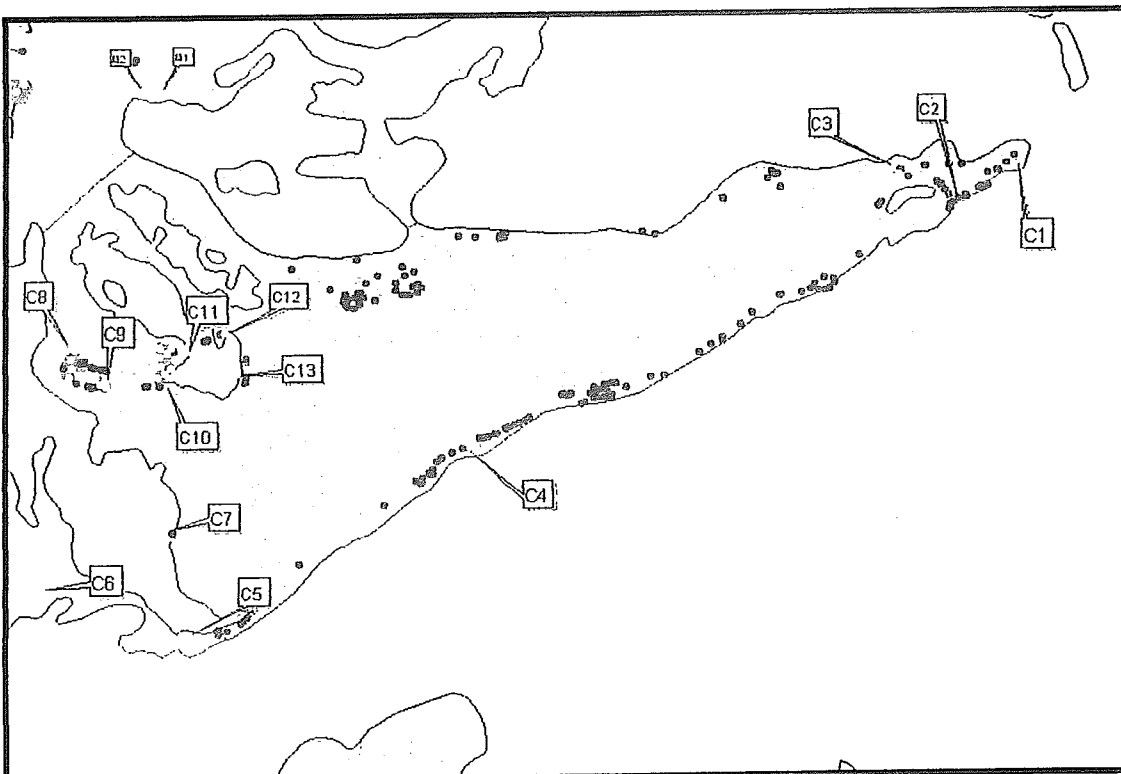


Figure 13: EWM locations observed, Sept. 2012 on Callahan Lake.

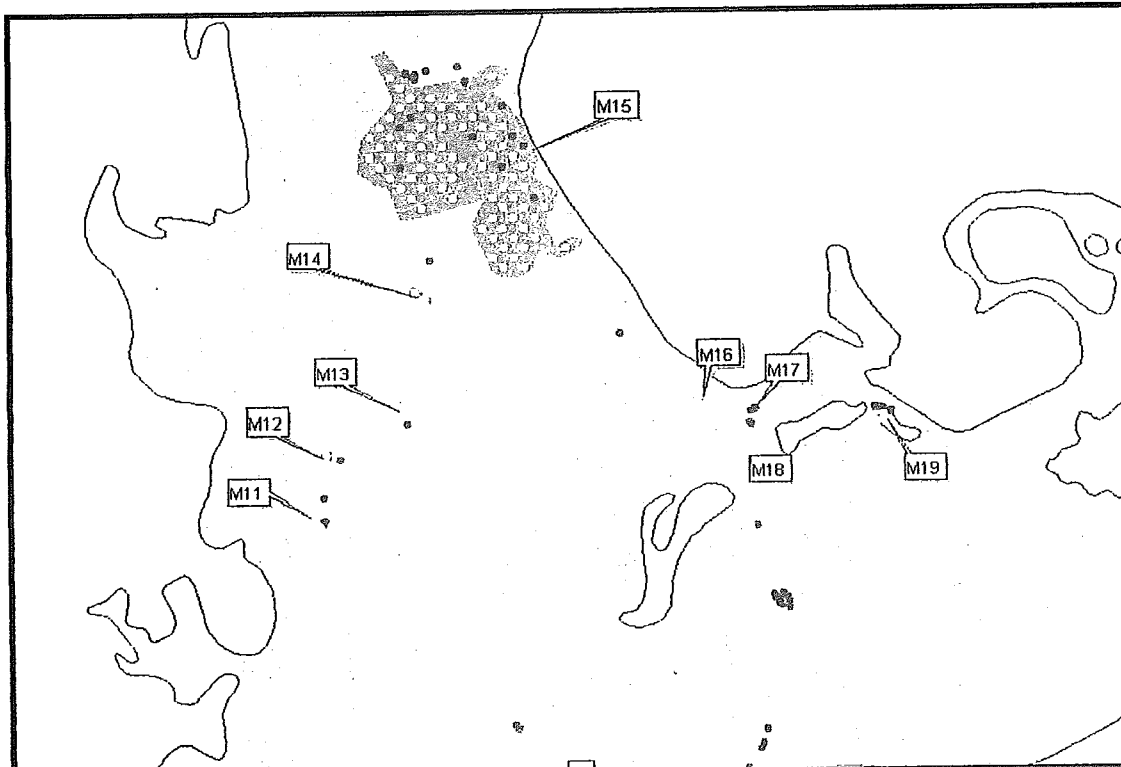


Figure 14: EWM locations observed, Sept. 2012, Mud Lake-north.

Callahan and Mud Lake Priority Zones

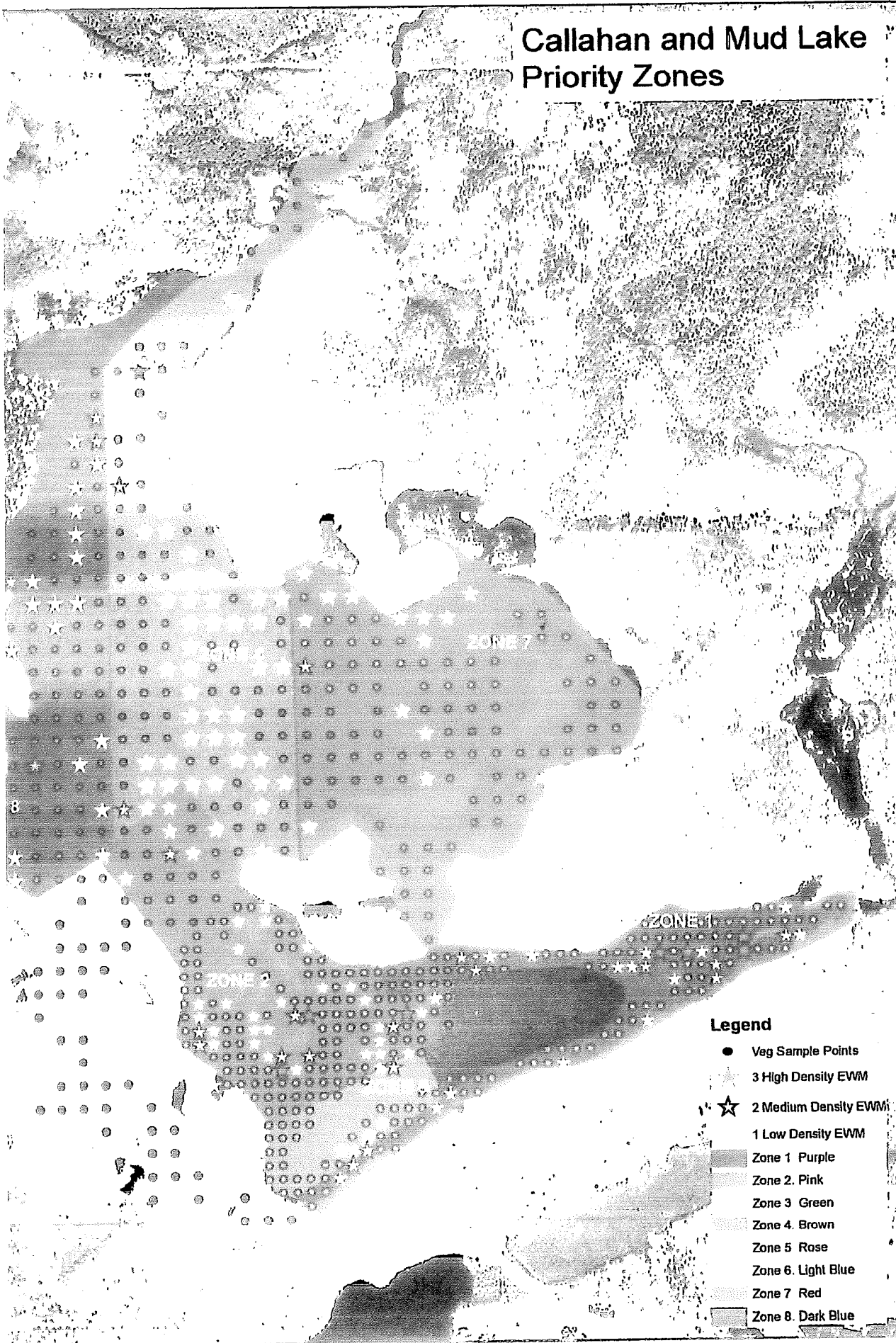
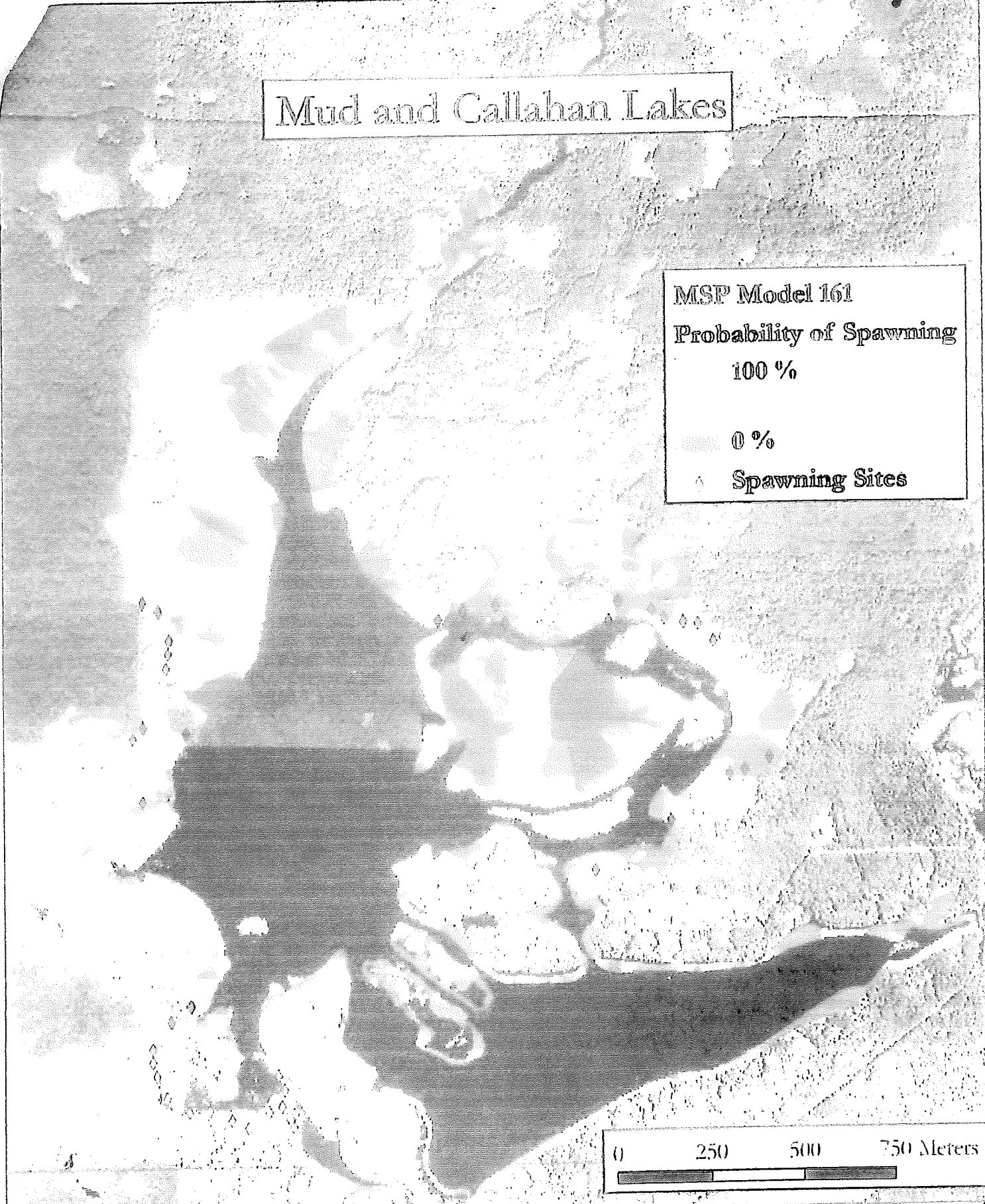


FIGURE 9

Mud and Callahan Lakes

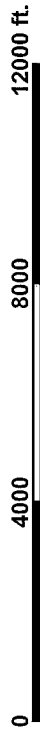
MSP Model 161
Probability of Spawning
100 %
0 %
Spawning Sites



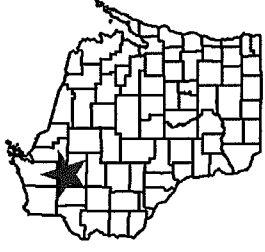
0 250 500 750 Meters

Model and spawning site data property of Joel Nohner (JNohner@gmail.com) and Ashley Rust (AshleyRust@gmail.com).
Not to be reproduced without written permission. FIGURE 8

Map Created on Mar 05, 2013



This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



Legend

- Major Highways**
 - Interstate
 - State Highway
 - U.S. Highways
 - County Roads
 - Local Roads
- Rivers and Streams**
 - Intermittent
 - Fluctuating
 - Perennial
- 24K Open Water**
- County Boundary**
- Municipalities**
 - Village
 - City
- DNR Managed Lands**
 - Fee
 - Easement
 - Lease



Scale: 1:40,448

**Callahan Lake protective Association
AIS Control Grant Proposal**

Section VI: Attachments

5. Itemized breakdown of expenses:

2014	Cash Costs	Donated
1. Salaries		
CBCW—100 hr. @ \$12.00-----	\$1200	
Lake Excursions---		
10 hr. @ \$12.00-----	\$ 120	
Educational Projects---		
10 hr. @\$12.00-----	\$ 120	
Times 2 years-----		\$2880
2. Consulting		
PI survey x 2 years-----	\$ 4500	
Herbicide x 2 years-----	\$37800	
3. Other (DNR Permit-24 ac.)		
\$20 x 2 years-----	\$ 1240	
4. Supplies---		
Purchase Marker Buoys \$ 500		\$1375
Totals --2 years	\$44,040	\$4255
	Total	\$48,295
	Requested 75%	\$36,221
	Association Share	\$12,074

Project Scope/Description

7a. Description of project area

Callahan/Mud Lakes are a connected water body formed by a dam(Spillway) on the Chief River. Located in Sawyer County, the lakes combined 585 acres with a maximum depth of 15 feet in Mud Lake and 18 feet in Callahan Lake, a mean depth of 6 feet and 11 feet respectively. A public boat Ramp is located just upstream of Mud Lake on the Chief River and grants access to the lake through the River channel. Callahan Lake area waters have been pristine waters, abundant with native water Plants for many decades. An above average FQI of 29.8 shows that there is a good diversity in the lake that should be maintained through plant management.

7.b. Description of problem to be addressed by project

Eurasian water milfoil was identified in Callahan Lake in 2005 the Wisconsin Department of Natural Resources. Further surveys in 2006 and 2007 found Eurasian water milfoil in both Callahan And Mud Lakes. In June of 2007, approximately 12 acres of Eurasian milfoil were found in the lakes, by October over 20 acres were found in Callahan Lake alone. Callahan has larger stands of EWM, while the EWM in Mud Lake is more scattered and mixed with native plants. An AIS Rapid Response Grant was Awarded for treatment of 16 acres on Callahan Lake in 2008. The lake association developed an Aquatic plant management plan to guide their efforts' on Callahan and Mud Lakes in 2009. The Callahan Lake Protective Association completed a control treatment on Mud Lake 2010 and in 2013 with no DNR fiscal assistance. Given the success of the treatment in Mud Lake, along with continued success of previous Treatments in Callahan Lake, EWM is less than 25% of the lakes combined littoral zone.

In 2012 the association treated 14 acres of EWM in Callahan/Mud Lakes. The association hired a consultant to do a complete point-intercept survey. The results of the survey showed a reduction in frequency and density that was significant, with a pretreatment frequency of 0.96 to a post treatment frequency of 0.09. Based upon the Chi-square analysis, it was determined to be statistically significant [$p < 0.001$]. The density was also decreased. The Results were very positive. During 2012 dense colonies of EWM in Mud Lake were treated with success. During the 2012 treatment process different concentrations of Navigate were use in treatment areas based up on survey data of mature EWM plants. As a part of our education program we plan to locate buoys in dense growth areas with "Hazard Area" signs to attempt to keep boaters out of the area preventing fragmentation of the colony to reduce the spreading of the mature colony. (See attached survey report)

During 2013 the Association without DNR assistance treated 9.9 acres as recommended by the consultants based upon The 2012 post treatment survey data. Polygons in both lakes were treated with 150 pounds of Navigate per acre. It Should be noted that the 2012 post survey showed a statistically significant increase in colonies of the Northern milfoil (*Myriophyllum sibiricum*) by the consultants survey. New beds were located outside the basic polygons that were noted by GPS points for future reference. A full lake intercept survey is in the plan for 2015. The majority of the 2013 treatment was done in Callahan Lake and a very large polygon in Mud Lake.

7.c. Description of Goals and Objectives

The Callahan Lake Protective Association has three main objectives in our 2014- 2015 grant proposal in an effort To reach the goal of reducing EWM while protecting other native dicot and monocot native plant colony.

Objective One: EWM Control

The Callahan/Mud Lakes Association in 2014 will treated 24 acres with the herbicide Navigate as was recommended in the summary of the post treatment data provided by the survey consultant. A post point survey will be completed fall of 2013.

Objective Two: General Education Plan

The plan is to develop a program of personalized learning for different sources of lake users. This will be an effort to educate users of all types about AIS, EWM, and what they can do to prevent the spread of EWM in these lakes and others. Education will be done in the following ways in 2014. Ensure the proper signage is located at all entry points to the lakes, resorts, public landings, during Lake Excursion days and at local business as well as association meetings and on our web site. Maps as in attachment #5 will be provided to lake users to assist in identifying EWM areas and on our web site. Lake association members will be offered training in proper CLMN procedures and will be used to monitor the lakes for new invasive species sites.

Objective Three: Develop a Clean Boats, clean Waters Program.

A Clean Boats, Clean Waters Program will continue for Callahan/Mud Lakes. The Clean Boats Program will be implemented at the public landing on the Chief River and at the several private resorts boat landings. Residents will be asked to inspect their own boats that normally don't leave the lake. Volunteer training sessions will be provided with the assistance of the county AIS coordinator. All collected data will be entered into SWIMS. A volunteer work schedule will be worked out in Early June. Resident training will continue throughout the summer and adjusted for major landing

use events.

7.d. Description of methods and activities

Objective One: EWM control

The Callahan/Mud Lakes Aquatic Plant Management Plan developed a long range treatment plan to address EWM in Callahan and Mud Lakes. Given the treatment plan and the most recent status of EWM in the lakes, it is proposed that we chemically treat 24 acres of select populations of EWM in each lake during the 2014 use period. The Aquatic Plant Management Plan strategically divides the lakes into multiple priority zones for treatment of EWM. (see attachment#6). In 2014 priority assessment in zones 3,4,2,5. will be done. Pre-Post Monitoring by our survey consultant, along with GPS points will be used to correctly locate treatment areas. A Certified DNR applicator will be hired to apply different concentrations of NAVIGATE in late May/early June.

The association will again volunteer to sample water collected at the several location to be used in the study in progress to determine the effective residual life of the Navigate in actual lake conditions.

Musky spawning areas have been identified in the same areas as dense EWM. These areas will be avoided. (See attachment #7)

Again training will be provided for riparian owners as to the proper methods of hand pulling of EWM from shore areas and piers.

The results of the 2013 post survey completed by our consultant will be shared in detail with members at our May 2014 association meeting in generic terms the general public will understand. The purpose of doing this will be to help riparian owners understand the role of their out of pocket fiscal support is doing in the big picture. Treatment in 2015 will be determined by the results of the 2014. Similar procedures will be followed.

Callahan Lake and Mud lakes are visited by returning guests each year due to 3 Resorts and a campground located on the lakes. The new and returning guests must be educated each year to the state of the ENW in the lakes and proper procedures for reducing EMW movement with/in the lakes. A reduced EMW population in these two lakes has a major effect on the EMW population in the "BIG CHIP"

Objective Two: Education

To educate lake users, both resident and non-resident about AIS, EWM and what they can do to prevent the spread of EWM in these lakes and into other lakes in the area. 3 educational projects will be undertaken.

- a. Assure that proper signage is at all boat landings and fliers from the DNR are available at public landings, resorts and as handout at association meetings or at excursion events. They can be used as a part of the clean boats inspection process.
- b. The general public will have access to up dated lake maps showing areas with EWM in them that caution boat use in that lake section. This will be of value to kayaker's, skiers and fishing boats.
- c. Lake excursion Days will be established several times during the summer, subject to the availability of the Sawyer County AIS coordinator and the trained team of riparian owners. This team will travel the lake actually see the EWM and learn more about its growth process and how to properly hand pull mature plants from the lake.

The AIS coordinator will train association members in Citizen Lake Monitoring Network (CLMN) protocols in order to monitor new outbreaks of EWM in the lakes. Then lake association members will monitor the lake monthly during the summer to determine EWM or other invasive species.

Objective Three: Develop a Clean Boats, Clean Waters program.

Programs to promote Clean Boats, Clean Waters will be implemented for Callahan/Mud Lakes for 2013. This will be supervised by an officer of the association. Volunteers will be trained in boat inspection methods and will be located at the public land and resort landings most days of the week and for periods on weekends during normal high use times. All riparian owners will be encouraged to take part in this activity to get the feeling of ownership in efforts to preserve our lakes. (100 hours)

7.e. Description of project products or deliverables

The proposed project will deliver data collected from CBCW program, results of pre-post –monitoring Surveys and volunteer monitoring surveys. An herbicide control treatment record will be completed. Residents will gain ownership in the process to restore the pristine character of the lakes.

7.f Data will be collected by professional consultants via pre-post intercept surveys

7.g. Description of existing and proposed partnerships.

The Callahan Lake Protective Association will work with the Sawyer County Land and Water Conservation Department Sawyer Co. AIS coordinator and the DNR to ensure an effective project.

7.h Discussion of role of project in planning and/or management of lake.

The proposed project is another step in the management of aquatic plants in Callahan and Mud Lakes. The herbicide, control treatment, along with the educational programs, Will continue the goal of reducing EWM in the lakes while protecting the native plant species, which provide food and habitat for fish and other aquatic dependent animals.

7i. Time table for implementation of key activities.

The Callahan Lake Protective Association will establish a Clean Boats, Clean Waters Program in the spring of 2014. Volunteers will be trained and decisions on boat landing activity will be made in June of 2014. An herbicide applicator will be contracted with in early May of 2014. A certified consultant will be hired to conduct the point-intercept survey in the spring and fall of 2014 . Printed materials and education supplements will be available during the duration of the grant.

7.j. Plan for sharing project results

Project results will be shared with the DNR and AIS coordinator in the form of Reports required of the applicator and survey consultant as established by the DNR. Maps and conditions of the grant will be provided to association members at meetings, Monthly newsletters and information provided to the association officers by contractor/and/or consultants. Association members attending special meetings such as the Sawyer County Lakes Association will report in written or orally during regular monthly meetings. An Association representative will attend the Coffee Hour discussions conducted By the Sawyer Co. AIS Coordinator.

7.k. Other information in support of project

This is a grass roots effort on the part of concerned riparian owners, willing to pay the price to Preserve the natural environment of the lake and the ecological food chain it provides for all aquatic Life forms. It is hoped that this effort will be participated in by all riparian residents. You need to have ownership in your lake. You can't buy your way out, you must be involved. Total involvement is needed to maintain the value of your lake property. We all gain from a health lake environment. Preserve the lake for the next generation of your family.