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Section I: Application Type

Lake Management Planning Grant

Check one:

- Large-scale planning grant
- Small-scale planning grant

Check one:

- Lake education
- Organizational development
- Other study or assessment, or multiple-purpose project

Lake Management Protection Grant

Check one:

- Wetland restoration
- Ordinance development
- Lake improvement
- Lake classification
- Land or easement acquisition

Legislative District Numbers	
Senate	Assembly
23	67

To determine your legislative district, go to <http://165.189.139.210/WAML/>

Type in complete address, next screen shows information.

Section II: Applicant Information

Applicant		Type of Eligible Applicant	
Tainter Menomin Lake Improvement Association, Inc		<input type="checkbox"/> County	<input type="checkbox"/> Tribe
Lake Name	Size in Acres	<input type="checkbox"/> City	<input type="checkbox"/> Sanitary District
Tainter Lake	30.3miles	<input type="checkbox"/> Village	<input type="checkbox"/> Lake District
Project County/Township/Section/Range		<input checked="" type="checkbox"/> Town	<input checked="" type="checkbox"/> Lake Association
Dunn County-Townships:Colfax, Grant, Sand Creek		<input type="checkbox"/> Other Governmental Unit	<input type="checkbox"/> Non Profit Conservation Organization
Authorized Representative Named by Resolution		Project Contact Name	
Ron Verdon		Ron Verdon	
Authorized Representative Title		Project Contact Title	
President		President	
Address		Address	
PO Box 185		PO Box 185	
City	State	City	State
Menomonie	WI	Menomonie	WI
ZIP Code		ZIP Code	
4751		54751	
Daytime Phone (area code)	Evening Phone (area code)	Daytime Phone (area code)	Evening Phone (area code)
715-505-2800	715-235-4198	715-505-2800	715-235-4198
E-mail Address		E-Mail Address	
rverdon@att.net		rverdon@att.net	

Mail Check to: (if different from applicant)

Name and Title	Address
Leo Schindler, Treasurer	PO Box 185
Organization	City
Tainter Menomin Lake Improvement Association, Inc	Menomonie
	State
	WI
	ZIP Code
	54751

For DNR Use Only

Application Type	Date Received	Date Reviewed (LC)	Lake Coordinator Approval / Date
	7/31/13		
Waterbody ID#	Adequate Public Access	Environmental Grants Specialist Approval / Date	
	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Eligible Project	Eligible Applicant	Project Priority Rank	
<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Prior Grant Award(s)	Fiscal Year(s)	Amount Received To Date	Project Awarded
<input type="checkbox"/> Yes <input type="checkbox"/> No		\$	<input type="checkbox"/> Yes <input type="checkbox"/> No

Section III: Project Information

Project Title: Dunn County-Red Cedar River Erosion/Habitat Restoration Project Proposed Ending Date: February 15, 2014 *6/30/14 Bnk*

Other Management Units Around Lake	Letter of Support	Other Management Units Around Lake	Letter of Support
1. Dunn County Planning, Resources & Development	<input checked="" type="checkbox"/>	4. City of Menomonie	<input checked="" type="checkbox"/>
2. Dunn County Land Conservation Division	<input checked="" type="checkbox"/>	5. <u>USDA-NRCS</u>	<input checked="" type="checkbox"/>
3. Alliance of Dunn County Conservation and Sports (<input checked="" type="checkbox"/>	6.	<input type="checkbox"/>

Section IV: Lake Access

Number of Public Vehicle Trailer Parking Spaces Available at Public Access Sites: 30

Number of Public Access Sites on Lake Including Boat Launches and Walk-ins: 5

Section V: Cost Estimate and Grant Request

<p>Section V must be completed or application will be returned. Details in support of Section V are welcome.</p>	Project Costs		
	Column 1 Cash Costs	Column 2 Donated Value	DNR Use Only
1. Salaries, wages and employee benefits		\$9,720	
2. Consulting services	\$23,626		
3. Purchased services--printing and mailing			
4. Other purchased services (specify):			
5. Plant material			
6. Supplies (specify)			
7. Depreciation on equipment			
8. Hourly equipment use charges			
9. State Lab of Hygiene (SLOH) Costs			
10. Non-SLOH Lab Costs			
11. Land or easement acquisition value			
12. Associated acquisition costs			
13. Other (specify)			
14. Subtotals (sum each column)			
15. Total Project Cost Estimate (sum of column 1 plus sum of column 2)	\$33,346		
16. State Share Requested (calculate based on State share listed below)	\$23,626		

Subject to the following maximum grant amounts:

- Large-scale lake planning projects--up to \$25,000 - 67% State share
- Small-scale lake planning projects--up to \$3,000 - 67% State share
- Lake classification and regulation or ordinance development projects--up to \$50,000 - 75% State share
- Lake protection projects (other than lake classification and regulation or ordinance development projects)--up to \$200,000 - 75% State share

Use of Federal funding as match: (check box below if applicable)

We are using or planning to apply for Federal funds to be used as match.

If known, indicate source of funding:

Section VI: Attachments (check all that are included)

A. For all applicants:

- 1. Authorizing resolution
- 2. Letters of support
- 3. Map of project location and boundaries
- 4. Lake map with public access sites identified (per Section IV of this application and page 33 of the guidelines)
- 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) or Non-profit Conservation Organizations (NCOs):

- 1. For first time applicant LMOs only: A completed Form 8700-226 (Lake Association Organizational Application)
- 2. For first time applicant NCOs 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. For land or easement acquisition projects: Detailed description of your organization's land management experience
- 7. Brochures, newsletters, annual reports or other information about your organization

C. Wetland Restoration Projects:

- 1. Deed, easement, or land control agreement
- 2. Preliminary engineering plans
- 3. Water regulatory permits
- 4. Map of project location and boundaries

D. Ordinance Development Projects:

- 1. Inventory of applicable existing ordinances
- 2. Description of resources each jurisdiction allocates to enforcement
- 3. Preliminary surveys

E. Lake Improvement Projects:

- 1. Engineering and design plans
- 2. Water regulatory permits
- 3. Map of project location and boundaries


Section VI: Attachments, continued

F. Land or easement acquisition projects:

- 1. DNR Form 1800-1 (Environmental Hazards Assessment Form)
- 2. Legal description of the property
- 3. Project location boundary map
- 4. Property or easement appraisal (if not previously submitted to the Department)
- 5. If escrow closing, the title insurance commitment
- 6. Evidence of compliance with Uniform Relocation Act requirements, if applicable
- 7. Agricultural Impact Statement, if applicable
- 8. Status of acquisition negotiations, including expected time frame for closing
- 9. A land management plan
 - a. Full description of property and conditions
 - b. Description of current and proposed uses of property and adjoining properties
 - c. Management requirements for property
 - d. If roads, piers or grading are proposed, a topographic survey with feature locations, and design cross sections

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	Title of Authorized Representative
Ron Verdon	President
Signature of Authorized Representative	Date Signed
	7/30/13

**BUDGET DETAILS
DUNN COUNTY - RED CEDAR RIVER EROSION/HABITAT
RESTORATION PROJECT
AUGUST 1, 2013**

TOTAL FUNDING REQUEST FROM LAKE PLANNING GRANT:	\$23,626
MATCHING FUNDS	<u>9,720</u>
TOTAL	\$33,346

CONSULTING SERVICES

\$23,626

Inter-Fluve, Inc
301 South Livingston Street, Suite 200
Madison, WI 53703
608-441-3042
(Marty Melchior, Midwest Regional Director)

<u>MATCHING FUNDS</u>	\$9,720
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Dunn County Land Conservation Division (80 hours X \$40.00)	\$3,200
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TMLIA (150 hours X \$12.00)	1,800
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Project Partnership Team (4) (16 hours each X \$40.00)	2,560
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UW-Stout Students (6) (30 hours each X \$12.00)	2,160
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(USDA-NRCS will provide technical assistance and possible financial assistance to private landowners/operators for this project)

Barron County

Dunn County

Wilson

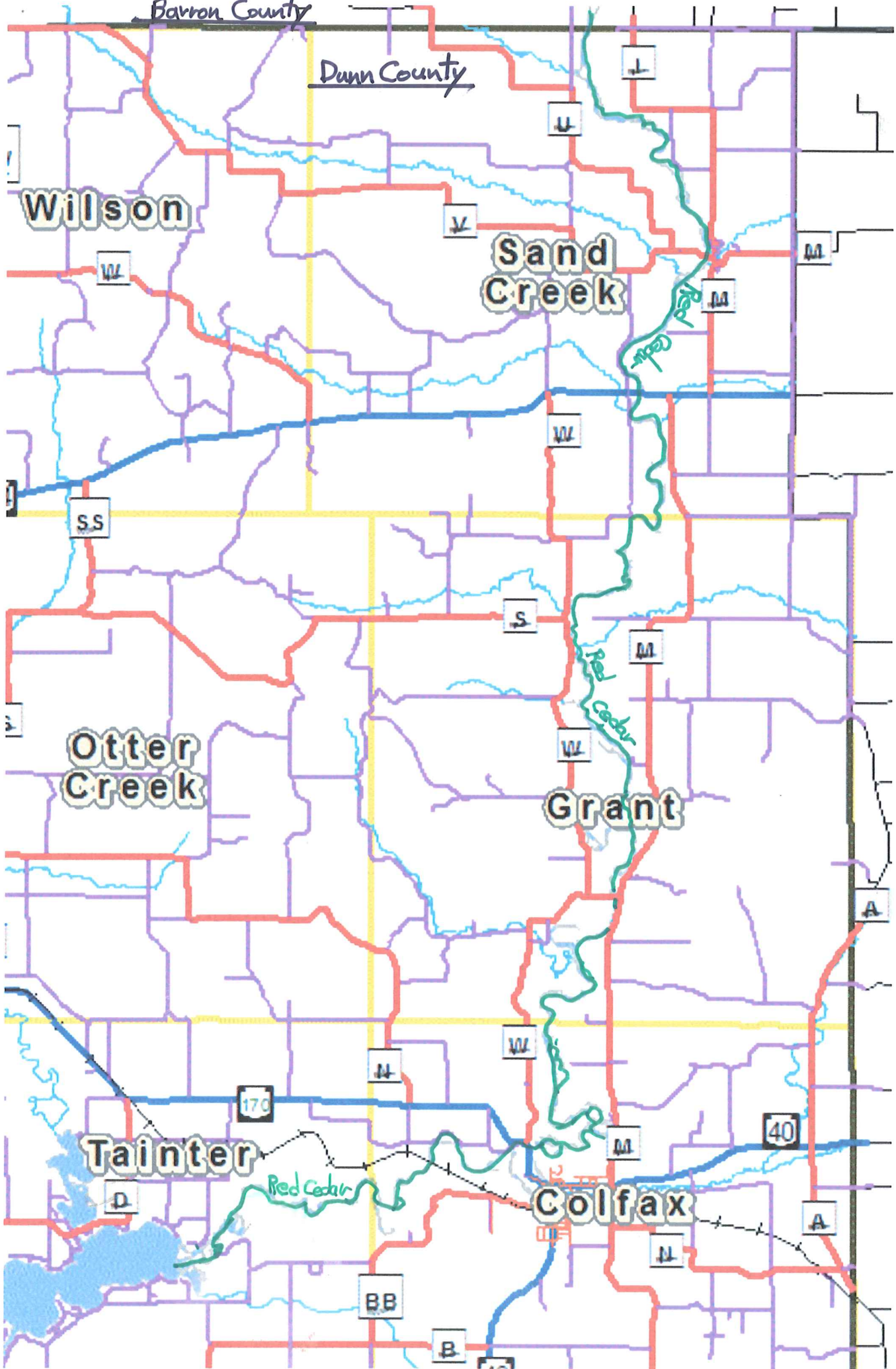
Sand Creek

Otter Creek

Grant

Tainter

Colfax



WDNR LAKE PLANNING GRANT APPLICATION
PROJECT TITLE: DUNN COUNTY - RED CEDAR RIVER EROSION/HABITAT RESTORATION PROJECT
SPONSOR: TAINTER MENOMIN LAKE IMPROVEMENT ASSOCIATION, INC
DATE OF SUBMISSION: AUGUST 1, 2013

PROJECT SCOPE/DESCRIPTION

A. DESCRIPTION OF PROJECT AREA

This project area is located in Dunn County, WI on the Red Cedar River upstream of Lake Tainter. This planning grant continues the work of a 2005 study sponsored by the Tainter Menomin Lake Improvement Association (TMLIA) that identified 58 eroding and sediment producing streambanks on this 30.32 mile section of river in the Towns of Colfax, Grant, Sand Creek and Tainter.

In 2005 staff from the Dunn County Land Conservation Division (LCD) inventoried this entire section of the river and recorded specific details including GPS coordinates, length, and height on each eroding bank. The UW-Eau Claire Geography Department measured lake depths at 20,000 points and created a new bathymetric map of Lake Tainter. The new map was compared with a 1960 map to determine that nearly 2.7 million yards of sediment was deposited in Lake Tainter over a 45 year period. This equates to the loss of 1667 acre feet of water that is not available for habitat, recreation or navigation. Along with this loss, associated phosphorus and pollutants continue to flow into the Red Cedar River. A digital copy of the complete 2005 study is enclosed.

This planning grant represents the first phase in developing natural engineering solutions to remediate the erosion sites on the Red Cedar River and improve habitat. A Project Management Team will be developed to oversee and seek funding for the long-term remediation of the 58 eroding and sediment producing sites. Grant money will be used to hire a consultant, Inter-Fluve (www.Inter-Fluve.com) to study and evaluate the dynamics of the river, develop conceptual designs for non-traditional solutions that will stabilize the eroding banks and restore the aquatic ecosystems of the Red Cedar River and Lake Tainter.

B. DESCRIPTION OF PROBLEM TO BE ADDRESSED BY PROJECT

To date, none of the 58 erosion sites have been addressed or resolved. These sites continue to discharge large amounts of sediment, associated phosphorus and other pollutants into the Red Cedar River above Lake Tainter. Since 2005, extensive deposits of sediment, phosphorus and pollutants continue to flow into Lake Tainter and contribute to the unsafe, impaired condition of Lake Tainter and Lake Menomin. These conditions also contribute to the further decline of habitat along this stretch of the river. In a review of conditions in upper Lake Tainter in July of 2013, the sediment deposits now threaten the use of Champney Park boat landing, private waterfront shoreland, habitat, navigation,

and recreation on Lake Tainter. The associated phosphorus and pollutants contribute to the impaired condition of Lake Tainter, Lake Menomin and downstream.

Lake Tainter and Lake Menomin suffer from severe impaired water conditions and unacceptable, ever increasing algal blooms. Severe algal blooms not only are unsightly and produce repulsive odor, they now pose a public health threat and an economic threat to our lake communities. From 2009-2011, Dunn County recorded 26 algae related complaints, the highest in the State of Wisconsin and more than twice the number of any other county in Wisconsin during this period. The 30.32 miles of river include agricultural, public and private land that continues to erode and contribute to the declining conditions of this river and the lakes.

In September of 2012, the Environmental Protection Agency approved a WDNR TMDL plan that set new water standards for Lake Tainter and Lake Menomin. This project makes significant contributions to address the goals of the TMDL while improving water quality and habitat on the Red Cedar River and in both lakes.

If action is not taken promptly, the impaired conditions of the river and lakes will continue to decline. Expanded public health complaints related to algae will likely increase and the decline of habitat, recreation, navigation and the economy will continue. We can no longer ignore the negative impact to the health, economy and water quality along this 30.32 miles of the Red Cedar River in Dunn County.

C. DISCUSSION OF PROJECT GOALS AND OBJECTIVES

This project is being developed through a partnership between Tainter Menomin Lake Improvement Association (TMLIA), WDNR, Dunn County, NRCS, Army Corp of Engineers and UW-Stout. TMLIA and Dunn County Land Conservation Division identified Inter-Fluve of Madison, WI, a fluvial geomorphology firm, as the most suitable group to address this extensive project. Inter-Fluve has a wealth of experience around the world in addressing the mitigation of erosion along major river sections and restoring waterways back to a healthy condition. Dunn County Land Conservation staff and TMLIA met with Inter-Fluve to review this project in April 2013. This project proposes that **Inter-Fluve will be responsible for review of existing data and design concepts to mitigate the 58 erosion sites that exist in Dunn County above Lake Tainter.** Inter-Fluve will be responsible for designing the implementation plan for this project. Inter-Fluve will organize an initial project start-up meeting and consult with a proposed Project Partnership Team consisting of:

- Ron Verdon, President, Tainter Menomin Lake Improvement Association
- Patrick “Buzz” Sorge, West Central Wisconsin Lake Coordinator, WDNR
- Marty Engle, Fisheries Biologist, WDNR
- Mark Harings, Water Regulations and Zoning Specialist, WDNR
- John Sippl, District Conservationist, Natural Resource Conservation Service
- Dan Prestebak, Conservationist, Dunn County Land Conservation Division
- Nate Campbelle, Army Corp of Engineers

- Terry Zien, Army Corp of Engineers
- Dan Zerr, UW-Extension Educator
- Landowner(s) representing erosion sites

Once Inter-Fluve completes site visits, concept designs, details and the implementation plan, Inter-Fluve will schedule progress meeting(s) with the Project Partnership Team to review the results, plans and implementation prior to submission of the final report.

Assistance from UW-Stout Construction Engineering honor students will provide surveying support as needed and appropriate. These students have completed surveying classes and will donate their time to support this project. TMLIA will provide transportation support for students. Inter-Fluve will provide engineering drawings for a maximum number of erosion sites allowable in the total budget. Inter-Fluve is receptive to cooperative efforts with other agencies to accomplish this project.

Specific Goals:

Project Management Team

- Manage the overall project
- Engage partnerships with Inter-Fluve, TMLIA, WDNR, Dunn County Land Conservation Division, NRCS, Army Corp of Engineers, UW-Stout and land owners to accomplish the goals set forth in this project
- Utilize results of this planning grant to establish an implementation plan that provides a logical, sequential and sustainable approach to mitigate these erosion sites
- Establish design concepts, details and an implementation plan used to secure major funding to mitigate the erosion sites through a variety of sources. Funding sources may include TRM grants, NRCS funding, Army Corp of Engineer and others.
- Improve streambanks, habitat and water quality in the Red Cedar River, Lake Tainter and Lake Menomin
-

Inter-Fluve

- Establish design concepts to mitigate streambank erosion and improve habitat
- Provide template based preliminary engineering drawings for as many sites as possible to the extent of the available budget
- Provide projected cost estimates to mitigate the 58 erosion sites
- Compare the costs with traditional rip-rap and slope grading
- Identity strategies to mitigate the sediment and pollutant discharge into the Red Cedar River, Lake Tainter and Lake Menomin

D. DESCRIPTION OF METHODS AND ACTIVITIES

Inter-Fluve will:

- Conduct a forensic geomorphic assessment of erosion sites

- Coordinate with NRCS and county staff on survey data collection efforts
- Coordinate a project kickoff and design charettes meeting with the project management team (2 meetings on site)
- Develop design concepts and estimated costs to mitigate the 58 erosion sites
- Assess and analyze existing data and information related to the sites
- Develop concept design alternatives and preliminary engineering drawings for use as templates to be applied at the various erosion sites (including plan view, extent and type of treatment, and typical cross-sections for up to three alternatives)
- Inter-Fluve will provide a Concept Design Report to include:
 1. Basis of design
 2. Future data and analysis needs
 3. Costs for engineering, permitting and construction to the full extent of the project budget
 4. *Implementation Plan* to ensure the project is conceived, organized, scheduled and delivered in a sequential, sustainable and complete manner

E. DESCRIPTION OF PROJECT PRODUCTS OR DELIVERABLES

Inter-Fluve will provide a design report to include:

1. Concept designs
2. Basis of design
3. Future data and analysis needs
4. Estimated costs for engineering, permitting and construction costs of proposed alternatives
5. Implementation plan to ensure the project is conceived, organized, scheduled and delivered in a sequential, sustainable and effective manner.
6. Final implementation plan to mitigate erosion sites and secure necessary funding in 2014.

F. DESCRIPTION OF DATA TO BE COLLECTED, IF APPLICABLE

A complete copy of the 2005 Sediment/Erosion Report will be provided to Inter-Fluve.

Inter-Fluve will examine existing topographic/DEM data, historic maps, aerial photographs, soils/geology reports including available boring reports, surficial geology maps, FEMA/FIS flood information, existing hydrologic/hydraulic data, property boundary survey data, and utilities. Interfluve will also examine soils, bed/bank stability, rudimentary survey data as needed. Dunn County LCD has ready completed a current list of all Classification I erosion site landowners and will provide Classification II and III landowners by September 1, 2013. Dunn County LCD has also formally committed 80 hours of assistance to support this project.

The Project Partnership Team will organize a landowner meeting to inform, educate and consult all erosion site landowners regarding the intent, approach and funding support to accomplish this project. All landowners will have an opportunity to view the concept

designs, implementation plan and anticipated matching funds necessary to address each site. Landowners will be represented on the Project Partnership Team.

G. DESCRIPTION OF EXISTING AND PROPOSED PARTNERSHIPS

Partnerships are well established between Dunn County Board of Supervisors, Dunn County Land Conservation Division, WDNR, NRCS and UW-Stout. Tainter Menomin Lake Improvement Association, Inc. (TMLIA) actively partners with WDNR on various water quality initiatives including civic engagement training, development of educational publications, the farmer-led council project in Dunn County, Peirce County, Polk County and St. Croix County. WDNR and UW-Extension staff members serve on the Red Cedar: Land, Water and People Coming Together Conference Planning Committee. TMLIA also partners with City of Menomonie, UW-Stout, Wisconsin Lakes Association, Clean Wisconsin and many others. The Association is a member of the Alliance of Conservation and Sports Clubs of Dunn County. The association actively communicates and supports efforts and projects of other agencies and associations in the Red Cedar River watershed.

TMLIA has representatives attending monthly meetings from the City of Menomonie, UW-Stout, Dunn County Planning, Resources and Development Committee along with Dunn County Land Conservation Division.

TMLIA will provide support and facilitation to ensure the project details and schedule stay on track. UW-Stout Construction Program and UW-Stout Construction students will provide survey support for the sites as specified by Inter Fluve. Dunn County LCD staff and Inter-Fluve will provide initial orientation for surveying, oversight and guidance on site survey data to ensure accurate and consistent survey results.

USDA-NRCS will provide technical assistance and possible financial assistance to private landowners/operators to support this project.

H. DISCUSSION OF ROLE OF PROJECT IN PLANNING AND/OR MANAGEMENT OF LAKE

This project addresses significant elements in the recently approved TMDL for Lake Tainter and Lake Menomin. This project is an important planning step that utilizes sediment/erosion data to identify a logical and sequential method to mitigate extensive erosion, sediment and the reduction of pollutants affecting the Red Cedar River, Lake Tainter and Lake Menomin. Without this initial planning phase, an efficient and guided process will not be attainable to mitigate these erosion sites. This project will provide the foundation for remediation, habitat improvement and further funding support to resolve the 58 erosion sites identified on this section of the Red Cedar River. This project has tangible deliverables that will make for a simple transition from concept design and preliminary engineering plans to shovel-ready plans and specifications (a single step process).

This project supports the Dunn County Land and Water Resource Management Plan that identifies “improving water quality by reducing soil erosion” as a major planned activity.

I. TIMETABLE FOR IMPLEMENTATION OF KEY ACTIVITIES

This project will be completed during the fall of 2013 with a final report and implementation plan submitted by February 1, 2014.

August 1, 2013:	Submission of Lake Planning Grant to WDNR
September 1, 2013:	Project start date
September 2013:	Initial organizational meeting with Inter-Fluve and Project Partner Team
September/October:	Site visits, data collection and planning by Inter-Fluve
November/December:	Concept and implementation development by Inter-Fluve
February 2014:	Inter-Fluve presents all results to the Project Partnership Team
March 15, 2014:	Inter-Fluve submits final report and implementation plan to Project Partnership Team

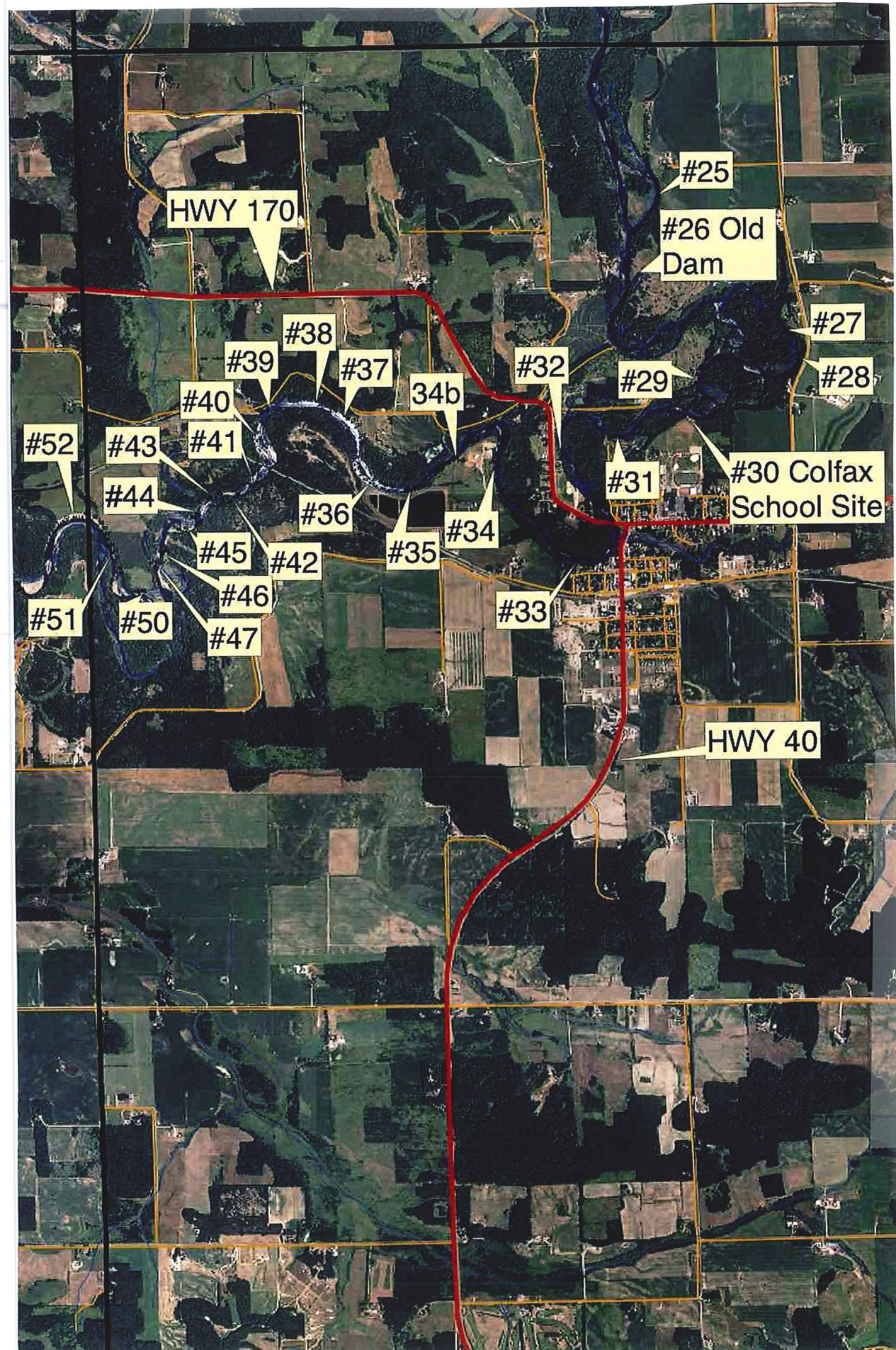
J. PLAN FOR SHARING PROJECT RESULTS

Project results will be shared through reports to the Dunn County Board of Supervisors, Menomonie City Council and TMLIA. Results will be posted on the TMLIA website, the UW-Extension website, presented at the TMLIA Annual Meeting, presented in the Spring 2014 “Lake Talk” TMLIA newsletter and featured at the 2014 Red Cedar: Land, Water and People Conference. Articles on the project will be distributed to various agencies and newspapers.

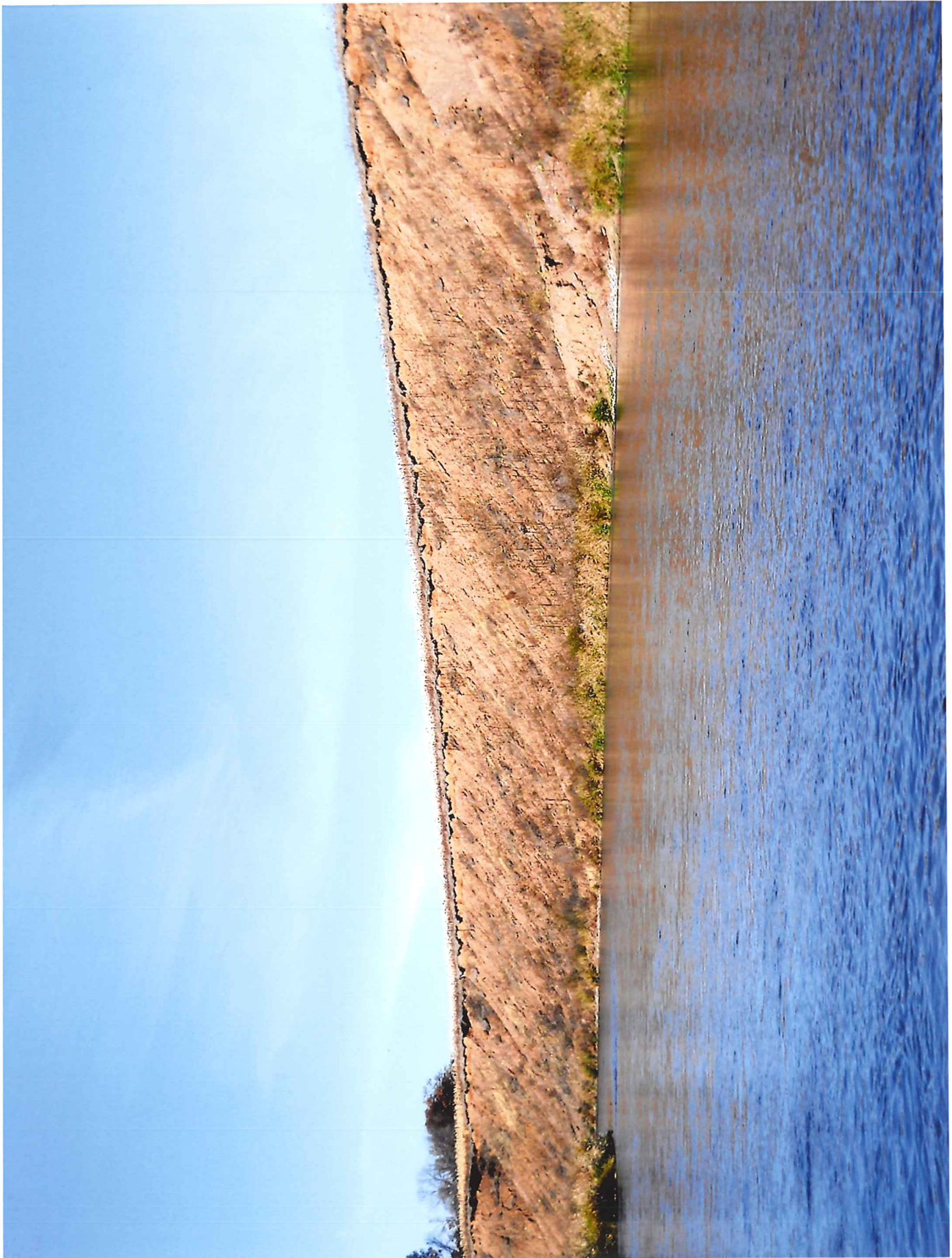
This project will serve as an education/demonstration site for future projects in the region. Some landowners are offering access for educational and demonstration purposes.

K. OTHER INFORMATION IN SUPPORT OF PROJECT NOT DESCRIBED ABOVE

- Inter-Fluve “Project Understanding and Approach” document
- 2005 Dunn County Sediment (Erosion) Study
- TMLIA resolution supporting this project
- Pertinent maps
- 2012 photographs of site #52 to illustrate recent streambank erosion
- Letters of Support



Erosion Site #52 - Overview Photograph - August 2012





RED CEDAR RIVER – CONCEPT DESIGN DEVELOPMENT

Project Understanding and Approach

Our approach in developing conceptual designs for the Red Cedar River (WI) is intended to provide feasibility information and concept design plans to help the Tainter Menomin Lake Improvement Association, Inc., Dunn County LCD and their partners in securing future funding for design and construction of bluff and river bank stabilization projects upstream of Tainter Lake. Concerns over sediment loading into the river and accumulation of sediment in Tainter Lake are the main drivers of this effort. Inter-Fluve's role will be to examine the existing conditions and previous work to determine alternative stabilization solutions that both reduce sediment loading and provide habitat at the same time.

We will examine the site conditions and meet with project partners to develop performance criteria for the project. Once established, these criteria will be used to develop concept level designs and cost estimates to be used in future grant funding applications. Concept designs will include plan view extents and typical cross-sections for treatments.

Project Tasks and work products

1. PROJECT MANAGEMENT AND MEETINGS

- 1.1. *General project management* – Inter-Fluve will manage staff and tasks to ensure timely completion of deliverables.
- 1.2. *Project Meetings*
 - 1.2.1. Project kickoff - Inter-Fluve will attend and facilitate a project kickoff meeting via web conference.
 - 1.2.2. Design charettes (to be coordinated with the site recon) – Following existing data review, Inter-Fluve will attend and facilitate a design meeting to discuss alternatives and develop a basic plan for template design deliverables.
 - 1.2.3. Design review meeting – Following submittal of concepts, Inter-Fluve will attend via web conference a meeting with the project partners to solicit review and comment.

Deliverables

- Attendance at meetings as described

2. ASSESSMENT AND ANALYSIS

- 2.1. *Existing Data Collection* – Inter-Fluve staff will review data pertinent to the river stabilization design. Possible data sources include existing topographic/DEM data, historic maps and aerial photographs, soils and geology reports, including available boring reports, surficial geology maps, FEMA/FIS flood information, existing hydrologic/hydraulic data, property boundary survey data, and utilities.
- 2.2. *Site Reconnaissance* – Inter-Fluve staff (engineer and geomorphologist) will review bank erosion sites of concern with project staff, examine soils, bed and bank stability and possibly collect rudimentary survey data. Inter-Fluve recommends floating the river and will provide one canoe. This assumes that all of the sites can be viewed within a 1.5 day timeframe and via water access.

- 2.3. *Hydrology and hydraulics* – Inter-Fluve will collect available information regarding watershed hydrology and develop estimates for return interval flows. Basic at-a-station hydraulic calculations will be completed to aid in the design development.

Deliverables

- Information will be incorporated into the designs

Assumptions

- No surveying is included apart from spot surveys as deemed necessary by Inter-Fluve staff. It is assumed that cross-section surveys will be completed for a minimum of four sites, and that this work will be completed by the project partners.

5. CONCEPT PLANS

- 5.1 *Concept Drawings* will be developed in draft and final form and will be submitted electronically (CAD files and as PDF 11x17”) and will contain the following:
- A plan view of the channel and banks through the project area showing extent of the proposed modifications (max 3 sheets)
 - Typical cross-sections for up to two bluff/bank stabilization alternatives (max 2 sheets)
- 5.2 *Concept Design Report* – Inter-Fluve will develop a Concept Design Technical Memorandum including the basis of the design, future data and analysis needs, and estimated costs for engineering, permitting and construction of the proposed alternatives.
- 1.2.1. *Work Plan* – As part of the Concept Design Report, Inter-Fluve will develop, in coordination with the project partners, a project work plan that includes future aspects of project management, development of final designs, and acquisition of funds for final design and construction.

Deliverables

- Plans and Report as described.

Lake and/or River Planning Grant Resolution

Resolution # 041613

RESOLUTION Of: Tainter Menomin Lake Improvement Association, Inc. (TMLIA)

County of: Dunn, Wisconsin

WHEREAS the Red Cedar River is an important resource used by the public for recreation and enjoyment of natural beauty; and

WHEREAS we are qualified to carry out the responsibilities of the lake and river protection project described in the state grant application; and

WHEREAS in this action the Board declares its intent to conduct the lake and river protection project described in the grant application.

IT IS, THEREFORE, RESOLVED THAT:


Tainter Menomin Lake Improvement Association, Inc requests funds and assistance available from the Wisconsin Department of Natural Resources under the Lake and/or River Protection Planning Grant Program: and

HEREBY AUTHORIZES the President to act on behalf of TMLIA to: submit an application to the State of Wisconsin for financial aid for lake and river protection purposes; sign documents; and take necessary action to undertake, direct, and complete an approved lake and river protection grant project.

BE IT FURTHER RESOLVED THAT TMLIA will meet the obligations of the lake and river protection grant project, including timely publication of the results, and project match support and/or financial obligations under this grant including 25% commitment to project costs.

We understand the importance of a continuing protection program for the Red Cedar River and intend to proceed on that course.

Adopted this day 16 of April, 2013 by a vote of: 7 in favor 0 against 0 abstain

BY: (Sarah Spenle)  Secretary/Clerk of Tainter Menomin Lake Improvement Association, Inc.

Note: management unit is the eligible sponsor of a project as defined in s. 281.70, Wisconsin Statutes and NR 195, Wis. Admin. Code, to include any county, city, town, village, qualified river management organization, qualified nonprofit conservation organization, or other local governmental unit as defined in s. 66.299(1)(a), Wis. Stats.

The management unit's representative must be indicated by naming a position or a person within the management unit. If a position is named, the person who holds that position (who must be an official or employee of the management unit) is the individual authorized to act on behalf of the management unit. By naming a position instead of a specific person, a new resolution does not have to be submitted to the DNR if there is a turnover in the position. A contracted consultant to the sponsor cannot be the authorized representative. The resolution cannot pass grant responsibility to another group or organization.





City of Menomonie
800 Wilson Avenue
Menomonie, WI 54751
715 232 2369 – 715 308 8403
E-Mail: mayor@menomonie-wi.gov

Randy Knaack
Mayor

July 23, 2013

Mr. Patrick "Buzz" Sorge
Department of Natural Resources
1300 W. Clairemont Avenue
Eau Claire WI 54701

Dear Buzz,

Re: Tainter/Menomine Lake Improvement Association Lake Planning Grant Application

On behalf of the City of Menomonie I am excited to offer you this letter as an indication of our support for the Lake Planning Grant being submitted by the Tainter/Menomine Lake Improvement Association (TLMIA).

Repairing the eroded shoreline up-stream of Tainter Lake will benefit all residents and municipalities downstream. The increased sediment from damaged shorelines not only impairs waterways as it settles, the sediment also reduces the velocity of water in our bays and thus promotes the growth of "blue-green" algae. Finally, the sediment is a source of phosphorus for our watershed which promotes the growth of algae in our streams, lakes and bays.

Repairing the damaged lake banks and removing the sediment source up-stream is a win-win-win! Less sediment means better waterway access, less "muck" in our bays and less phosphorus for algae growth.

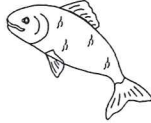
The City of Menomonie supports the TLMIA's Lake Planning Grant application to repair shorelines up-stream of Tainter Lake. We look forward to working with TLMIA as they execute the forthcoming grant.

Please let me know if you have any further questions.

Sincerely,

Randy Knaack, Mayor
City of Menomonie

cc: City Administrator Prange
Director of Public Works Eide



Alliance of Dunn County Conservation and Sports Clubs

E5590 708th Ave, Menomonie, WI 54751

Tainter/Menomin Lake Improvement Association
Dunn County Fish & Game Association
Downsville Sportsmen's Club
Menomonie Rifle & Pistol Club
Menomonie Archery Club

Ducks Unlimited - Menomonie Chapter
Tainter Lake Sportsmen's Club
Pheasants Forever - Red Cedar Chapters
Sierra Club - Chippewa Valley Group

Eau Galle Sportsmen's Club
Colfax Sportsmen's Club
Rock Falls Sportsmen's Club
Northwest Rod & Gun Club

June 4, 2013

Mr. Patrick "Buzz" Sorge
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701

Dear Buzz,

RE: Tainter/Menomin Lake Improvement Association Lake Planning Grant Application

On behalf of the Alliance of Dunn County Conservation and Sports Clubs (The Alliance), I am pleased to provide this letter of support for the Lake Planning Grant being submitted by the Tainter/Menomin Lake Improvement Association (TMLIA). The Alliance serves as an umbrella organization and represents a group of conservation organizations that share the common interest of enhancing the resources of Dunn County. One of the purposes of our organization that is stated in our bylaws is to "suggest appropriate projects involving public funds".

Finding affordable, practical solutions to repair eroding stream banks upstream from Tainter Lake is a project that reflects our interest of enhancing one of our most valuable natural resources - Tainter Lake. We feel this is an appropriate use of public funds because sediment in the Lake impedes navigation for boaters, covers fish spawning areas, and causes algal blooms.

Any efforts to reduce sedimentation in the Lake are wholeheartedly supported by The Alliance of Dunn County Conservation and Sports Clubs.

Sincerely,

Scott Sinz, President
Alliance of Dunn County Conservation and Sports Clubs
715-308-2067
scott@cedarfallsheating.com



Dunn County Land Conservation Division

390 Red Cedar Street, Suite C, Menomonie, WI 54751-2265

Phone (715)232-1496

FAX (715)232-1520

June 4, 2013

Mr. Patrick "Buzz" Sorge
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701

Dear Buzz,

RE: Tainter/Menomin Lake Improvement Association Lake Planning Grant Application

On behalf of the Dunn County Land Conservation Division (LCD) I am pleased to provide this letter of support for the Lake Planning Grant being submitted by the Tainter/Menomin Lake Improvement Association (TMLIA). In 2006 the TMLIA partnered with the University of Wisconsin-Eau Claire and the Dunn County LCD to successfully complete a Tainter Lake Planning Grant that identified the eroding stream banks on the Red Cedar and Hay Rivers above Tainter Lake. The study estimated that 1.6 million yards of soil were eroding from these banks each year and 1,167 acre feet of water storage was displaced by sediment in the forty-five year period from 1960 and 2005. This sediment not only impedes navigation for lakeshore owners and recreational users, but it also contributes phosphorus that causes algal blooms.

Our Dunn County Land and Water Resource Management Plan identifies the "Maintenance, Protection, and Improvement of our Surface Water Resources" as our number one priority and goal. In the Red Cedar River Watershed we are asking everyone to do their part to improve water quality. Finding functional, affordable solutions that will substantially reduce the amount of sediment entering Tainter Lake from eroding stream banks is a big part of meeting our goal.

If the Lake Planning Grant is approved, I will commit up to 80 hours of LCD staff time to assist with grant eligible activities. I feel this is very worthwhile project as we work together to improve the water quality of Tainter Lake.

Sincerely,

Daniel J. Prestebak
County Conservationist

COUNTY OF DUNN

Planning, Resources, and Development Committee

Land Conservation * Planning * Register of Deeds
Solid Waste/Recycling * Surveying * Zoning



July 9, 2013

Mr. Patrick "Buzz" Sorge
Department of Natural Resources
1300 West Clairemont Avenue
Eau Claire, WI 54701

Dear Buzz,

RE: Tainter/Menominee Lake Improvement Association Lake Planning Grant Application

On behalf of the Dunn County Planning, Resources and Development Committee, I am pleased to provide this letter of support for the Lake Planning Grant being submitted by the Tainter/Menominee Lake Improvement Association (TMLIA). The Dunn County Environmental Services Department, through our Land Conservation, Planning, and Zoning Divisions, has an established history of partnering with the Tainter Menominee Lake Improvement Association on many successful projects.

Finding functional, affordable solutions that will substantially reduce the amount of sediment and attached phosphorous entering Tainter Lake from eroding stream banks, is a big part of meeting the water quality goals outlined in Dunn County's Land and Water Resource Management Plan.

The Committee feels this is a very worthwhile project as we work together to improve the water quality of the Red Cedar Watershed.

Sincerely,

A handwritten signature in black ink, appearing to read "RW", is written over the word "Sincerely,".

Robert Walter, Chairman
Dunn County Planning, Resources and Development Committee

United States Department of Agriculture



Natural Resources Conservation Service – Menomonie Service Center
390 Red Cedar Street, Suite B
Menomonie, WI 54751
(715) 232-2614 ext. 3

July 30, 2013

Tainter Menomin Lake Improvement Association
Ron Verdon
PO Box 185
Menomonie, WI 54751

Dear Ron,

The USDA-NRCS office would like to offer support on the Lake Association's efforts to control sedimentation into the Red Cedar and Hay Creeks. The Menomonie Service center would like to offer technical and possible financial assistance to private agricultural landowners or operators for erosion control efforts.

As a collective group, I feel that we can help make a difference on the sedimentation of our local resources and improve habitat for a wide array of fish and wildlife.

Thank you

A handwritten signature in black ink that reads "John Sippl". The signature is fluid and cursive, with the first name being the most prominent.

John Sippl
District Conservationist
Dunn County

Helping People Help the Land

An Equal Opportunity Provider and Employer

