Environment and Natural Resources Trust Fund 2015 Request for Proposals (RFP)

Project Title: ENRTF ID: 132-F Integrating Agriculture with Water Quality and Wildlife Habitat		
Category: F. Methods to Protect, Restore, and Enhance Land, Water, and Habitat	-	
Total Project Budget: \$ 300,000	-	
Proposed Project Time Period for the Funding Requested: 3 years, July 2015 - June 2018		
Summary:		
This project will develop profitable, resource management practices that protects and improves water quality and wildlife habitat while enhancing the local agricultural community in a 14,300-acre area in Greenvale Township.		
Name: Alan Singer		
Sponsoring Organization: Dakota County		
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Web Address www.dakota.co.mn.us		
Location		
Region: Metro		
County Name: Dakota		
City / Township: Greenvale Township		
Alternate Text for Visual:	_	
This map shows protected land natural areas water bodies and cultivated lands in a 14,300-acre of Greenvale		
Funding Priorities Multiple Benefits Outcomes Knowledge Base		
Extent of Impact Innovation Scientific/Tech Basis Urgency		
Capacity Readiness Leverage TOTAL		

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Environment and Natural Resources Trust Fund (ENRTF) 2015 Main Proposal

Project Title: Integrating Agriculture with Water Quality and Wildlife Habitat

PROJECT TITLE: Integrating Agriculture with Water Quality and Wildlife Habitat

I. PROJECT STATEMENT

The primary goal of the project is to develop profitable, multi-resource management practices on private lands that can protect and improve water quality and wildlife habitat while enhancing the longstanding agricultural tradition and economy in a 14,300-acre area of Greenvale Township in Dakota County.

A convergence of circumstances make this area an opportune location to integrate and expand private and public benefits: the natural features of the landscape; amount and type of land already protected, positive relationships between the County and landowners; township support; proximity to higher education institutions; increasing need and interest in reducing negative impacts of agricultural production on water quality, wildlife, and pollinator habitat; increasing demand for local food production aging farmer demographics; financial barriers to new/immigrant farmers.

Budget: \$25,000

Budget: \$20,000

Budget: \$25,000

Budget: \$35,000

Budget: \$20,000

II. PROJECT ACTIVITIES AND OUTCOMES

Activity 1: Planning Framework

		11011 1711
Oı	utcome	Completion Date
1.	Detailed scope, work plan, organizational structure, and operating procedures	Prior to 10/1/2015
	for undertaking the project. Assessment of the current state of agriculture	
	and natural resource protection within the project area.	

Activity 2: Initial Public Engagement and Goal-Setting

Outreach and informational meetings will be conducted among land owners and other interested parties

Outcome	Completion Date
1. Establish goals and outcomes.	2/15/2016

Activity 3: Update Existing Natural Resource Inventory

MLCCS land cover, soils, geology, slopes, hydrology, water quality, regionally rare (SGCN) wildlife, public lands, conservation and farmland easements, and land parcels and other information will be compiled.

Ou	tcome	Completion Date
1.	GIS database of all natural resource and water-related data for study area	2/15/2016

Activity 4: Ecosystem Services Assessment.

Ecosystem services, ranging from managing stormwater, building soils and controlling diseases and pests, to enhancing pollination, sequestering carbon and regenerating game and fish populations will be inventoried.

0	utcome	Completion Date
1.	A series of maps for specific ecosystem services will be produced.	8/15/2016

Activity 5: Land Management Analysis

Landowner and farmer interviews and land management practices inventory will be conducted.

C	Outcome	Completion Date
1	. Recommendations for moving agriculture towards land management which	1/15/2017
	restores ecosystem services and can raise farm income or reduce costs.	

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Environment and Natural Resources Trust Fund (ENRTF) 2015 Main Proposal

Project Title: Integrating Agriculture with Water Quality and Wildlife Habitat

Budget: \$100,000

Budget: \$35,000

Budget: \$40.000

Activity 6: Economic Analysis

Analyze economic conditions and opportunities, including new credit markets. A minimum of six diverse landowner operations will be assessed which concepts/ approaches have the most potential for use.

Outcome		Completion Date
1	. A ecosystem services matrix will be compiled to show the costs of implementing	1/15/2017
	each practice, and potential returns from each change/investment.	

Activity 7: Legal and Regulatory Analysis

Relevant state and federal laws and local ordinances will be reviewed to address potential opportunities and barriers to accomplishing project goals.

Οι	utcome	Completion Date
1.	Findings and recommendations	1/15/2017

Activity 8: Demonstration Projects

0	utcome	Completion Date
1.	A minimum of four rural landowners will be selected to begin implementing	6/30/2017
	multi-resource management demonstration projects	

III. PROJECT STRATEGY

A. Project Team/Partners

Core team includes Applied Ecological Services (\$65,000/multiple activities), Cannon River Watershed Partnership (\$15,000/outreach), Crossroads Resource Center (\$60,000/economic analysis), Dakota County (\$50,000/multiple activities), Dakota County SWCD (\$65,000/multiple activities), Farmers Legal Action Group (\$35,000/legal analysis). Ag Star Financial, Greenvale Township, Hmong American Farming Association, USDA Natural Resources Conservation Service, local colleges, DNR, and MN Dept. of Agriculture will also be involved.

B. Project Impact and Long-Term Strategy

We have long recognized the significant impacts that agriculture has on water quality and wildlife habitat and understand that landowners use financial considerations for determining their land use and agricultural practices. Yet, we have not used integrated economic and ecological assessments to determine if there can be alternative financially rewarding practices that also improve water quality/quantity and wildlife habitat on private lands. This project is designed to begin understanding these relationships and opportunities for greater public and private benefits and is a progression of the successful Dakota County Farmland and Natural Areas Program. The County has committed \$50,000 for this project.

The project will be very collaborative in design with many opportunities for information transfer in multiple venues. The involvement of students and faculty from local colleges will provide additional value-added components. It is anticipated that supporting existing and new demonstration projects will provide valuable information and natural resource benefits. Providing resources for community governance may also be warranted. Finally, this project could provide a different integrated funding and implementation model based on geography and providing multiple public benefits, rather than separate agency missions or specific programs.

C. Timeline Requirements

The multiple aspects of this complex project will require a deadline of June 30, 2018

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2015 Detailed Project Budget

Project Title: Integrating Agriculture with Water and Wildlife Habitat

INSTRUCTIONS AND TEMPLATE (1 PAGE LIMIT)

IV. TOTAL ENRTF REQUEST BUDGET: \$300,000 for three years

BUDGET ITEM (See "Guidance on Allowable Expenses", p. 13)		<u>AMOUNT</u>
Personnel:	\$	50,000
County Land Conservation staff1 FTE for for three years (\$25,000)		
County Planning Office staff05 FTE for three years (\$15,000)		
County Water Resources staff05 FTE for three years (\$10,000)		
Contracts:	\$	250,000
Applied Ecological Services - \$85,000 for multiple activities		
Cannon River Watershed Partnership - \$15,000 for outreach		
Crossroads Research Center - \$60,000 for economic and agricultural analysis		
Dakota County SWCD \$50,000 for multiple activities		
Farmers Legal Action Group- \$35,000 for legal and regulatory analysis		
Equipment/Tools/Supplies: NA	\$	-
Acquisition (Fee Title or Permanent Easements): NA	\$	-
Travel: NA	\$	-
Additional Budget Items: In this column, list any additional budget items that do not fit above	\$	-
categories. List by item(s) or item type(s) and explain how number was reached. One row per		
type/category.		
TOTAL ENVIRONMENT AND NATURAL RESOURCES TRUST FUND \$ REQUEST =	= \$	300,000

V. OTHER FUNDS (This entire section must be filled out. Do not delete rows. Indicate "N/A" if row is not applicable.)

SOURCE OF FUNDS	AMOUNT	<u>Status</u>
Other Non-State \$ To Be Applied To Project During Project Period: Dakota County \$50,000	\$ 50,000	Secured
Other State \$ To Be Applied To Project During Project Period: NA	\$ -	Indicate: Secured or Pending
In-kind Services To Be Applied To Project During Project Period: All partners have indicated some level of in-kind contributions including additional resources from dakota County.	\$50,000	Estimated
Funding History: Multiple Dakota County, Federal Farmand Ranchlands Protection Progam, State Outdoor Heritage and Environment and Natural Resource Trust funds have been used to develop the Farmland and Natural Areas and the ShoreHolders programs, and to acquire conservation easements and complete restoration projects within the project area	\$9,700,000	Secured
Remaining \$ From Current ENRTF Appropriation: FY 12 ENRTF -\$561,432 FY14 ENRTF -\$368,000	\$929,432	Unspent

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Greenvale Conservation Zone

Preliminary Study Area



Acquired Agricultural Easements (2,121 ac.)



Preliminarily Approved Easements (587 ac.)



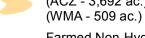
Agricultural Conservation Zone (12,560 ac.) (238 Landowners)



Proposed WMA (1,693 ac.) (18 Landowners)



Farmed Hydric Soils (ACZ - 3,692 ac.)

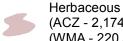


Forests

Farmed Non-Hydric Soils (ACZ - 4,575 ac.) (WMA - 790 ac.)



(ACZ - 619 ac.) (WMA - 26 ac.)



(ACZ - 2,174 ac.) (WMA - 220 ac.)

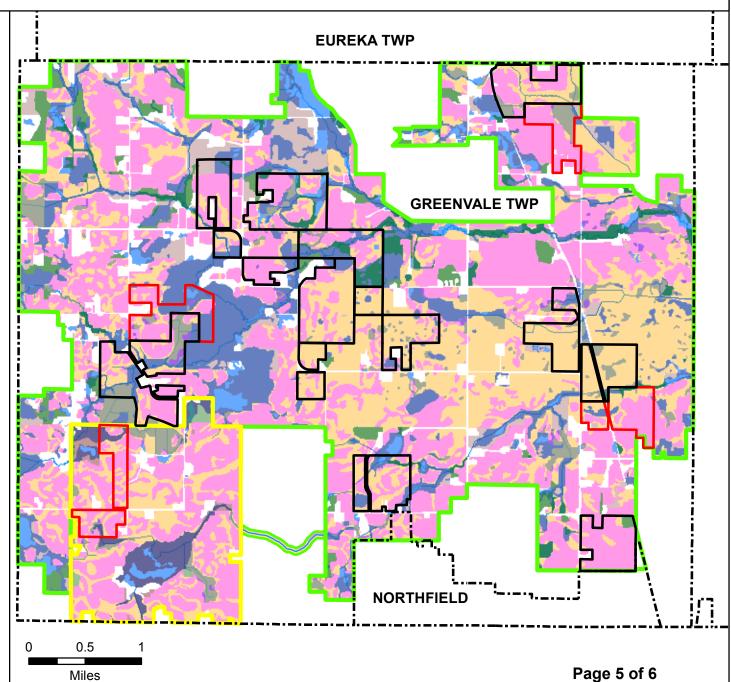


Waterways

Wetlands (ACZ - 2,928 ac.) (WMA - 318 ac.)



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Project Manager Qualifications for Alan Singer

1978 to 1991 Dodge Nature Center Interpretive Naturalist and Program Manager

- Teaching and facilitating 40,000 student visits and 10,000 adult and family participants per year
- Supervising ten staff and fifty adult volunteers

1991 to 1998 Minneapolis Park and Recreation Board Environmental Program Manager

- Development of first, comprehensive Environmental Policy for the Park Board
- Developing and implementing the master plan and improvements for Cedar Lake Park and Trail
- Development and implementation of a park system-wide reduced mowing initiative and off-leash dog exercise area program
- Manage the J.D. Rivers Outdoor Discovery Center and Eloise Butler Wildflower Garden
- Management or involvement in the following LCMR projects:
 - -Urban Rangers -Longfellow House Interpretive Center
 - -Multi-use Urban Green Space Project -Cedar Lake Trail

1998 to 2003 MN DNR Metro Greenways Coordinator

- Provided \$1 million in 50:50 matching funds for planning projects involved over 70 partners in 60 cities and towns in the metro region
- Secured and expended \$10M of state funds that leveraged an additional \$17M of non-state funds for land protection and restoration throughout the region
- Project Manager several LCMR-funded Metro Greenways allocations and the Initial Metro Wildlife (now Metro Conservation) Corridors project

2003 to Present Dakota County Land Conservation Manager

- Managed the expenditure of more than \$20M of County funds to permanently protect more than 10,600 acres with a value greater than \$82 million
- Program Manager for 2008 LCCMR "Vermillion River Corridor Acquisition and Restoration in Dakota County" project to develop comprehensive water quality, wildlife habitat and recreation plan for the Vermillion River in Scott and Dakota Counties

Organizational Description

Dakota County is Local Government Unit bordered by the Minnesota, Mississippi and Cannon Rivers with almost the entire Vermillion River located within in its boundaries. Nearly 400,000 people live in the county that that is comprised of 14 fully developed and rapidly developing suburbs; six small, rural towns; and 13 mostly rural townships.

The County has adopted a comprehensive, long-term land conservation vision that integrates the regional park system; a 200-mile greenway system that integrates water quality, wildlife habitat and recreation; the Shoreholders buffer program for all rivers, streams and undeveloped lakeshore; natural area protection; and farmland protection.

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