

PROJECT APPLICATION

Dickinson County Water Quality Commission
Cover Sheet

1. Applicant Organization Spirit Lake Protective Association
Street address 12496 23rd Ave
City Spirit Lake
State IA
Zip 51360
Email strampe@mchsi.com
Phone (712) 336-0946
Organization contact: Blaine Strampe
2. Project title: Reeds Run Acquisition
Location Big Spirit Lake, Reeds Run
3. Project Director (if different than organization contact)
Street address _____
City _____
State _____
Zip _____
Email _____
Phone _____
4. Application submission date: September 28, 2015
5. Brief description (75 words or less) of project, including expected results:
This project will be used to acquire of a key property located in the Reeds Run Resource Management Area discussed in the Iowa Great Lakes Watershed Management Plan, on page 142. On page 143 of the Iowa Great Lakes Watershed Management Plan it states, "A combination of wetland restorations, sediment control practices, vegetative buffers, and tile intake treatments will be used to prevent approximately 647.7 pounds of Phosphorus from reaching Big Spirit Lake".
6. Amount requested through this grant application * : \$105,000
7. Matching funds:
Hard match \$350,000 (Anything paid for with real money)
Source(s) Private Contributions, Spirit Lake Protective Association
Soft match 25,000 (Anything not paid with real money but has a value)
Source(s) Labor for fundraising, sampling labor, landowner contribution
Other support _____
 - a. Amount of Federal, State or other public **cash** match money already acquired or in process: \$ 0
 - b. Amount of private **cash** match funds: \$ 350,000
 - c. Source of public and/or private **cash** match (list all):

Fundraising efforts by the Spirit Lake Protective Association

Is the project a portion of a larger, overall project to be implemented over a multi-year period?
Yes No If yes, describe in project narrative and include in budget form as instructed.

**** The Water Quality Commission will only obligate funds for current fiscal year.
Any multi-year projects will be allowed to re-apply in subsequent years***

Type of project (select all that apply):

- Public education, public awareness and information dissemination
- Creation or maintenance of Best Management Practices
- Erection and maintenance of storm water run off facilities
- Dredging
- Bank stabilization Water treatment
- Water monitoring
- Watershed protection
- Activities to abate and remove invasive species
- Any other activity which will improve, protect or enhance the quality of water in the lakes in Dickinson County

Estimated project dates:

a. Start Oct 1, 2015

b. Completion Oct 1, 2017

Applicant's signature. Upon signing in the space provided below, the applicant agrees to conform with the requirements pertaining to:

- **Civil Rights Assurance of Compliance:** The applicant hereby agrees that it will comply with Title VI of the Rights Act of 1964, 1873 and the age Discrimination Act of 1975 to the end that no person in the United States shall on the grounds of race, color, national origin or otherwise subjected to discrimination under any program or activity for which the Applicant-Recipient receives grant funds and hereby gives assurance that it will immediately take any measures to effectuate this agreement.

This assurance is binding on the Applicant-Recipient, its successors, transferees, and assignees, and the person or person whose signature appears below are authorized to sign this assurance on behalf of the Applicant-Recipient.

Blaine M. Stronge Pres. SLPA 9/29/15
Applicant's name and title Date

REQUIRED BUDGET FORM

See Application Guidelines for this form.

Proposed Budget for Current Year

	<u>Commission</u>	<u>Hard Match*</u>	<u>Soft Match**</u>	<u>Total</u>
1. Temporary Staff				
Seasonal staff	\$ _____	\$ _____	\$ _____	\$ _____
(Hourly rate)				
Hourly staff	\$ _____	\$ _____	\$ _____	\$ _____
(Hourly rate)				
2. Supplies and Services	\$ _____	\$ _____	\$ _____	\$ _____
3. Equipment	\$ <u>5,000</u>	\$ _____	\$ <u>5,000</u>	\$ <u>10,000</u>
(List all equipment over \$1,000)				
4. Travel	\$ _____	\$ _____	\$ _____	\$ _____
5. Water Monitoring	\$ _____	\$ _____	\$ _____	\$ _____
5. Land Acquisition	\$ <u>100,000</u>	\$ <u>350,000</u>	\$ <u>20,000</u>	\$ <u>470,000</u>
6. Land Development	\$ _____	\$ _____	\$ _____	\$ _____
7. Other	\$ _____	\$ _____	\$ _____	\$ _____
Total	\$ <u>105,000</u>	\$ <u>350,000</u>	\$ <u>25,000</u>	\$ <u>480,000</u>

* **Hard Match is “real money spent” toward project goal.**

** **Soft Match is money indirectly spent toward project goal.**

You must attach a letter of support for each contributor of Hard Match dollars and soft match dollars that specifies the amount of money or service being provided.

BUDGET NARRATIVE: Attach a Budget Narrative. Follow directions in Application Guidelines.

An independent appraisal of a parcel of land, which is to be kept in confidence during the negotiations, was completed and presented an appraised value of \$450,000 dollars for approximately 23 acres of land on the Reeds Run Resource Management Area. This land is located in a key spot and satisfies both the requirements for the Reeds Run Resource Management Area and the 1,000 foot buffer in the Iowa Great Lakes Watershed Management Area. We seek 100,000 dollars from the Water Quality Commission for this project for the acquisition of this property. The remaining money will be sought from private donors and contributors of the Spirit Lake Protective Association. Once the full purchase price has been raised the Association will donate the land to a suitable landholder such as the Dickinson County Conservation Board to maintain and operate in manners suitable to water quality.

In addition, two water sampling stations will be constructed and set north of this site on property

that is having conservation practices constructed. These water sampling stations will evaluate the effectiveness of the practices that are being used. Those sampling stations will cost approximately \$20,000 dollars to construct, but they will be permanent structures on this field for at least 10 years.

TASKS AND DELIVERABLES: Attach a list of Tasks and Deliverables following the Application Guidelines included in this packet.

Tasks and Deliverables		
<u>Task</u>	<u>Measurement</u>	<u>Completion Date</u>
Construct Sampling Stations	2 Stations	Jun-16
Raise 100,000 dollars	\$ 100,000.00	Jun-16
Complete First Years Sampling	Sample Rain events	Nov-16
Request Payment From WQC	\$ 5,000.00	Nov-16
Annual Report to WQC	Report	Jan-17
Begin Water Sampling	Sample Rain events	May-17
Raise 100,000 dollars	\$ 200,000.00	Jun-17
Complete 2nd Year Sampling	Sample Rain events	Nov-17
Raise 150,000 dollars	350,000	Nov-17
Transfer Property to landholder	Transfer	Jan-18
Annual Report to WQC	Project Complete	Jan-18

PROJECT NARRATIVE

Attach project narrative following the instructions in application guidelines, including:

The Spirit Lake Protective Association has a long track record of raising funds for large projects and efforts on Spirit Lake. The most recent large project the organization has engaged in was the Miniwaukon State Park Shelter House remodel and improvement, in which we raised over \$1 million dollars over a period of 2 years to accomplish what the State of Iowa required.

STATEMENT OF PROJECT NEED:

In the Iowa Great Lakes Watershed Management Plan it states "This project will be used to acquire of a key property located in the Reeds Run Resource Management Area discussed in the Iowa Great Lakes Watershed Management Plan, on page 142. On page 143 of the Iowa Great Lakes Watershed Management Plan it states, "A combination of wetland restorations, sediment control practices, vegetative buffers, and tile intake treatments will be used to prevent approximately 1,874 pounds of Phosphorus from reaching Big Spirit Lake". This project alone will prevent approximately 389.9 pound reduction in phosphorous from reaching Big Spirit Lake or 20 percent of the amount needed for Reeds Run RMA, in perpetuity. Currently this land is in the conservation reserve program and some discussions have been made by a developer to build condominiums on this property sometime in the future.

In an effort to prevent the land from being farmed in the future or from being developed the Spirit Lake Protective Association proposes to purchase the property protecting the native grasses and restored wetlands from being destroyed.

STATEMENT OF PROJECT BENEFITS TO WATER QUALITY

Approved WQC funding (\$100,000) will critical to help secure acquisitions the Spirit Lake watershed and specifically the Reeds Run Resource Management Area. Additional justification for this proposed project is based primarily upon these benefits: additional watershed protection and improved water quality for the lakes; need for additional public lands to complement a growing population; increases and enhances wildlife habitat and management; securing additional migratory habitat for game and non-game species; and providing needed habitat for threatened and endangered wildlife species.

Listed is the Spirit Lake Protective Association's commitment as a lead organization and supportive partner to help achieve the *mission* of the Dickinson County CWA in the Watershed Management Plan.

- Filter sediment and nutrients through the native prairie and restored wetlands so when water reaches the lake its quality is much improved. It is estimated that these 23 acres will remove or stop 300 tons of sediment and 389.9 pounds of phosphorous each year from reaching Spirit Lake.
- Protect and or restore important water and land resource areas
 - The Spirit Lake Protective Association will acquire and restore multiple acres of wetlands and associated uplands targeted to water quality protection and wildlife habitat improvement.
 - *The Spirit Lake Protective Association will continue and extend partnering for watershed protection projects and grant funding.*
- The CWA Coordinator and Spirit Lake Protective Association will assist in finding funds to work in SL & IGL Watershed that affects Dickinson County, Iowa.
- The Spirit Lake Protective Association actively work with Iowa Natural Heritage Foundation and other Partners for restoring wetlands and associated uplands, targeting water quality protection and wildlife habitat.

Urban development also continues at an aggressive pace within the Iowa Great Lakes area and it could seriously degrade and threaten the aesthetic beauty, natural wetlands, water quality, and recreation. Other key watershed projects can be lost to continued agricultural practices that threaten harmful nutrients, erosion, sediment loads, and destruction of aquatic ecosystems in Iowa Great Lakes.

The WQC funding is very important as it continues to help insure a future source of local match dollars with federal, state, or other funding sources.

Federally threatened, endangered, or proposed category (I) candidate species that can benefit and help justify the project.

Threatened – Bald Eagles, Prairie Bush Clover, Western Fringe Orchid

Endangered – Topeka Shiner

Category I Candidate Species – Eastern Spotted Skunk, & Black Tern

PUBLIC AWARENESS PLAN

The Spirit Lake Protective Association will publicize this project in its newsletters, which go to over 400 people, on its website, and in press releases. In addition, during the annual meeting and its monthly board meetings the association will promote the project and the pollution savings that will be reached because of this project.

LAND ACQUISITION AND DEVELOPMENT: *If the project involves land acquisition and development, fill out the requested information below. See application guidelines for details. (Note: Land Development is any activity on a piece of ground that constitutes improving the land, developing the land, or otherwise impacting the land)*

Project Location:

The sensitive nature of this project requires that the specific location of this project not be given out but the project is located within the Reeds Run Resource Management Area and is located within 1000 feet of the lake. The location places this property in two of the priority areas laid out in the watershed management plan. See a map of the Reeds Run Resource Management Area (RMA) for location information. See attached map for the location of the Reeds Run RMA.

Environmental, Economic and Social Impacts of Project (Demonstrate project impact to water quality and project need in this section)

As noted above, protection of this site helps to reduce sediment from this top-priority watershed by 91% and nitrogen can be reduced by 71%. This protection helps make popular Big Spirit Lake cleaner and healthier will improve the economic and social value of the Iowa Great Lakes.

Historical, Archaeological, and Architectural Features/ Impacts/Land Acquisition, Development

This site was undoubtedly an important location historically in the Iowa Great Lakes. It is situated in a relatively dryland area between large wetlands and the lake itself.

Project's Relationship to State, Local and County Plans

This project fits well within the Iowa Great Lakes Watershed Management Plan which calls for wetland restoration and protection, land retirement into native prairie and the protection of these sites. The site is already restored to wetlands and prairie and the cost of protection is all that is needed. The Watershed Management Plan pages that pertain to this are located in the appendix for ease of viewing.

Agreements and Easements/Land Acquisition/Development

No agreements or easements will be needed.

Itemized Cost Estimate Land Acquisition/Development

Appraised value of land -- \$450,000

Appendix

Reeds Run Resource Management Area										
Clean Water Alliance						Today's Date:		1/10/2013		
Project Lead:		John H. Wills								
Start Date:		7/1/2012								
Goal	Tasks	Task Lead	Annual	Long Term	% Complete	Estimated Annual Cost of Practice	Estimated Cost of P Practice	Estimated Phosphorous Removal (lbs)	Annual cost per pound of P Removed	Cost per pound of P removed
			Acres/feet/number	Acres/feet/number						
1	Phosphorus Management				0%	\$19,736	\$0	450.8	-\$50	\$0
1.1	Conservation Tillage	SWCD	500		0%	-\$500		50.05	-\$10	\$0
1.2	No-Till System	SWCD	266		0%	\$3,192		94.40	\$34	\$0
1.3	P-Rate Reduction	SWCD	766		0%	-\$8,426		48.79	-\$173	\$0
1.4	Cover Crop	SWCD	566		0%	\$25,470		257.53	\$99	\$0
2	Land Use Change				0%	\$0	\$195,100	679.5	\$0	\$1,038
2.1	Grassed Waterway	SWCD		5000	0%		\$12,500	175.60	\$0	\$71
2.2	Sediment Basins	SWCD		12	0%		\$21,600	196.30	\$0	\$110
2.3	Grade Stabilization Structure	SWCD		1	0%		\$18,000	72.30	\$0	\$249
2.4	Land Retirement	SWCD		22	0%		\$143,000	235.30	\$0	\$608
3	Edge of Field				0%	\$0	\$110,248	647.7	\$0	\$703
3.1	Wetland Restoration	SWCD		3	0%		\$60,000	336.90	\$0	\$178
3.2	Sediment Control Practice	SWCD		4	0%		\$40,000	97.30	\$0	\$411
3.3	Vegetative Buffer	SWCD		8	0%		\$1,848	128.60	\$0	\$14
3.4	Tile Intake Treatment	SWCD		28	0%		\$8,400	84.90	\$0	\$99
4	In-Lake Treatment					\$0	\$36,200	95.6	\$0	\$379
4.1	Shoreline/bank Restoration	FISH		200	0%		\$36,200	95.60	\$0	\$379
5	Education				0%	\$11,000	\$0	0.00	\$11,000	\$0
5.1	Radio	SWCD			0%	\$9,000			\$9,000	\$0
5.2	Print	SWCD			0%	\$1,500			\$1,500	\$0
5.3	Landowner Visits	SWCD			0%	\$0			\$0	\$0
5.4	Landowner Seminar	SWCD			0%	\$500			\$500	\$0
6	Monitoring				0%	\$20,500	\$0	0.0	\$20,500	\$0
6.1	Lake Monitoring	SWCD			0%	\$6,000			\$6,000	\$0
6.1.1	Vegetation	SWCD			0%	\$500			\$500	\$0
6.1.2	CLAMP	LSL			0%	\$500			\$500	\$0
6.1.3	Cyanobacteria	ISU			0%	\$5,000			\$5,000	\$0
6.2	Wetland	SWCD			0%	\$5,000			\$5,000	\$0
6.3	LID Practice Samples	SWCD			0%	\$3,500			\$3,500	\$0
Totals						\$51,236	\$341,548	1,874		

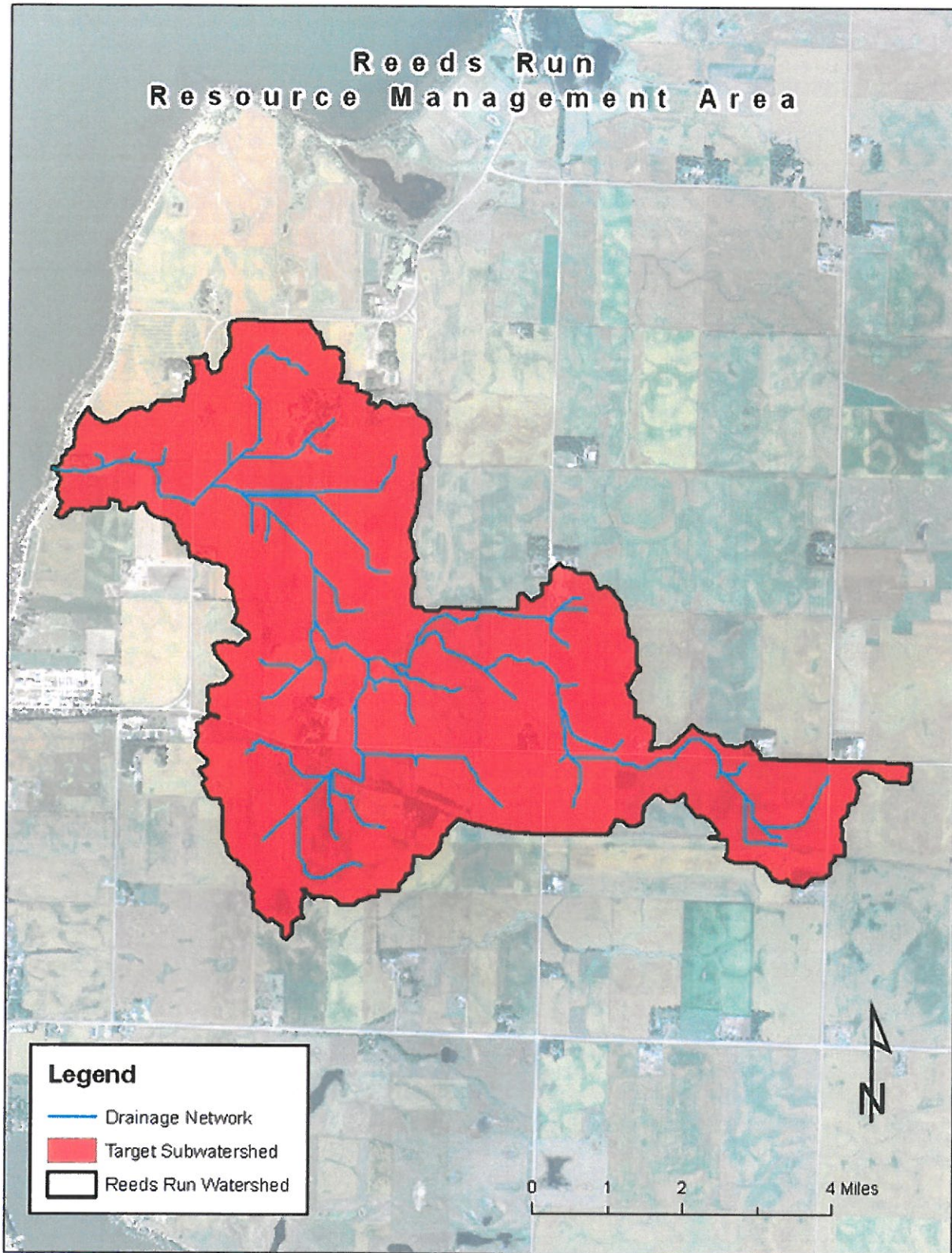


Figure 71 Reeds Run Resource Management Area