



Grant All-Detail Report Targeted Watershed 2014

Grant Title - 2014 - Targeted Watershed (Cedar River WD)

Grant ID - P14-4929

Organization - Cedar River WD

Grant Awarded Amount	\$1,505,000.00	Grant Execution Date	
Required Match Amount	\$376,250.00	Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	Bev Nordby

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$1,505,000.00	\$14,076.25	\$1,490,923.75
Total Match Amount	\$527,500.00	\$2,505.66	\$524,994.34
Total Other Funds	\$50,000.00	\$0.00	\$50,000.00
Total	\$2,082,500.00	\$16,581.91	\$2,065,918.09

*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Buffers/Saturated Buffers, and Edge of Field Practices	Agricultural Practices	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$297,500.00			N
Buffers/Saturated Buffers, and Edge of Field Practices	Agricultural Practices	Federal Funds	CRP	\$50,000.00			Y
Buffers/Saturated Buffers, and Edge of Field Practices	Agricultural Practices	Local Fund	CRWD	\$2,500.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Last Transaction		Matching Fund
					Spent	Date	
Buffers/Saturated Buffers, and Edge of Field Practices	Agricultural Practices	Local Fund	Vision 2020	\$57,500.00			Y
CRWD Technical Activity	Technical/Engineering Assistance	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$90,000.00	\$1,446.77	1/31/2015	N
Constructed Wetland	Agricultural Practices	Federal Funds	NRCS EQIP	\$50,000.00			Y
Contract Engineering Work	Technical/Engineering Assistance	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$100,000.00			N
Contract Engineering Work	Technical/Engineering Assistance	Local Fund	CRWD	\$75,000.00	\$2,505.66	12/31/2014	Y
Contract Engineering Work	Technical/Engineering Assistance	Other State funds not in eLINK	In-Kind from Students	\$50,000.00			N
Detention Areas	Agricultural Practices	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$500,000.00			N
Detention Areas	Agricultural Practices	Local Fund	CRWD	\$100,000.00			Y
Program Development CRWD	Project Development	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$80,000.00	\$6,711.08	12/31/2014	N
Project Administration	Administration/Coordination	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$30,000.00	\$5,918.40	12/31/2014	N
Soil Erosion Practices	Agricultural Practices	Federal Funds	EQIP	\$112,500.00			Y
Soil Erosion Practices	Agricultural Practices	Landowner Fund	Landowner Match	\$15,000.00			Y
Soil Erosion Practices	Agricultural Practices	Local Fund	CRWD	\$22,500.00			Y
Stream Bank/In Channel	Streambank or Shoreline Protection	Current State Grant	2014 - Targeted Watershed (Cedar River WD)	\$407,500.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Stream Bank/In Channel	Streambank or Shoreline Protection	Local Fund	Landowner Match	\$42,500.00			Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
------------------	--------------------	-----------------------	-------------

Indicators Summary

Indicator Name	Total Value	Unit
----------------	-------------	------

Grant Activity

Grant Activity - Buffers/Saturated Buffers, and Edge of Field Practices			
Description	<p>The project will identify riparian practices that will trap and hold runoff that is not adequately buffered from the stream. This will be accomplished by working with landowners to assure that the buffers they have are on a scale that effectively captures the runoff coming through the landscape, prior to reaching the stream. These practices include RIM/CRP buffers, saturated buffers and filter strips through CRP. Targeting will take place by doing a stream survey looking for high sedimentation in the stream channel and landowners willing to participate in the program. New and existing CRP will be targeted with a \$50/acre X 15 year up-front payment (\$750 per acre up-front payment), which would come from Cedar River WD and not a part of the BWSR Grant and match.</p> <p>Saturated buffers, woodchip bioreactors, grade stabilization structures, and waterway practices will be paid for through the BWSR grant funds for this activity. At this time a few sites have been identified, but design work and additional targeting will occur for this activity as well.</p>		
Category	AGRICULTURAL PRACTICES		
Start Date	1-May-14	End Date	30-Jun-17
Rates and Hours			
Actual Results			

Grant Activity - CRWD Technical Activity			
Description	<p>CRWD Staff that will be working on and having staff time being paid for through the grant: 1) Justin Hanson will be working with producers on the detention areas as well as the buffer activities, 2) James Fett will be working with the producers on buffers, developing the program by talking to producers, and the streambank and in channel work, and 3) Cody Fox will be coordinating the erosion control practices as well as the constructed wetlands. All three staff has appropriate technical approval authority for the technical work they are providing for the grant.</p> <p>Additional Assistance: In addition, USDA-NRCS staff and the Area 7 Technical Service Area (TSA) staff will be assisting CRWD and other engineering staff (U of M, Barr). Staffs that will be available for additional assistance from NRCS are: Aaron Peter, Area Office Engineer; Elizabeth Oolma, Area Office Engineer; and Chris Nelson, Civil Engineering Technician. For TSA 7, Pete Fryer, JPB Engineer, would be available for assistance.</p>		
	Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date		End Date	
Rates and Hours			
Actual Results	<p>12/31/55</p> <p>Justin Hanson worked with landowners and families regarding the Dobbins 1 detention area. He also worked with Barr Engineering on the survey work.</p>		

Grant Activity - Constructed Wetland			
Description	<p>Construct wetland restoration utilizing the CP 39 and associated practice standards that will reduce loading of nutrients, sediment, and other pollutants from incoming waters. This project will be a part of a system of practices in the north branch of Dobbins Creek. A few sites have been preliminarily identified, but more site work and investigation needs to be done to determine the best site for this project where a treatment train approach can best be implemented. In addition, leveraging of Federal farm bill dollars will be a part of the final selection process.</p>		
	Category	AGRICULTURAL PRACTICES	
Start Date	1-May-15	End Date	14-Dec-16
Rates and Hours			
Actual Results			

Grant Activity - Contract Engineering Work

Description	<p>1) Engineering Students will take part in many aspects of the project. They will be working on designs as well as helping out with the IBI study so they can see the whole picture of the project.</p> <p>2) Private Engineering will be done by Barr Engineering with Steve Klein, PE, being the lead engineer for the detention sites. Barr Engineering will be the lead engineer on the detention areas. Approximately 3 detention areas have been preliminarily identified for future design work.</p> <p>3) Engineering, technical assistance, and effectiveness monitoring/response management through the University will be done by several individuals. Brad Hansen, Senior Scientist, Bruce Wilson, Professor, John Nieder, Professor, and PE, Lori Krider, Research Fellow and Joe Magner, Professor. They will be coordinating the students, IBI, practices in channel as well as streambank and buffer practices. A separate work plan and sub-contract will be developed for this specific activity with the U of M. This work plan will be attached to the BWSR work plan at a later date.</p>		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date		End Date	
Rates and Hours			
Actual Results	12/31/14 - Students worked the summer of 2014 developing a program of 10 monitoring sites for IBI and fisheries studies so we can show before and after results.		

Grant Activity - Detention Areas

Description	This project will focus on three extended detention areas in the headwaters of the Dobbins Creek Watershed. By starting at the head waters and moving downstream with successive projects, each project becomes a permanent feature rather than an interim measure requiring future modification. The structures will be owned and maintained by the CRWD and easements will be obtained for areas impacted by increased flow attenuation/extended detention. This project will produce positive outcomes for both water quality and biota. Upon completion, the overall sediment load will be reduced downstream, with sediment settling in the detention areas and nutrients being absorbed by the existing vegetation. This will result in less turbidity, improved habitat, and improved recreational use of Dobbins Creek and the Cedar River—both of which are listed by the MPCA as impaired for turbidity. Macro invertebrate and fish communities will most certainly benefit from the in-stream reduction of sediment.		
Category	AGRICULTURAL PRACTICES		
Start Date	1-May-14	End Date	30-Jun-17
Rates and Hours			
Actual Results	12/31/14 - Survey was done in November for the structure. Barr Engineering survey crew did the work. Design will be done in this winter.		

Grant Activity - Program Development CRWD			
Description	Justin Hanson, Resource Specialist, Cody Fox, District Technician, and James Fett, Watershed Technician, will identify a suite of practices that address the site specific needs for treatment in the target areas of the watershed. CRWD will be incorporating a treatment train approach; the projects will function in collaboration with each other and effectively provide the required treatment to reach the biological benefits required by the MPCA. A series of practices will be strategically placed in the headwaters to detain flows and manage erosive velocity throughout the landscape. These practices will impact down-gradient cropland by holding the soil on the land. The project will also identify riparian practices that will trap and hold runoff that is not adequately buffered from the stream. This will be accomplished by working with landowners. Many one on one meetings, several different times, to educate and assure that the proposed practices that will effectively captures the runoff coming through the landscape, prior to reaching the stream.		
Category	PROJECT DEVELOPMENT		
Start Date	1-May-14	End Date	30-Jun-17
Rates and Hours			
Actual Results	12/31/14 Developing the program is going well. Cody has identified several areas with maps using stream power index, tomer, lidar and other GIS layers. They have pinpointed 3 different areas that they will be meeting with landowners in January. James works with the students at the U researching the stream for in stream priority areas and streambank restorations. Staff meets every other week to talk about where we are at and what the next steps are to stay focused.		

Grant Activity - Project Administration			
Description	Bev Nordby, District Administrator, will oversee the project and coordinate the staff along with eLINK input. Jeanne Crump, Administrative Assistance, will track all time, expenditures, and revenues.		
Category	ADMINISTRATION/COORDINATION		
Start Date	1-May-14	End Date	30-Jun-17
Rates and Hours			
Actual Results			

Grant Activity - Soil Erosion Practices			
Description	CRWD will provide financial assistance to practices that not only help erosion problems, but also slow the flows down throughout the system. This activity may include the following practices: water and sediment and control basins, grass waterways, grade stabilization structures, and side inlet controls.		
Category	AGRICULTURAL PRACTICES		
Start Date	8-Oct-14	End Date	01-Jun-17
Rates and Hours			
Actual Results			

Grant Activity - Stream Bank/In Channel			
Description	There are several in-stream methods of treatment for Dobbins Creek. These methods include, but not limited to: bioengineering practices such as root wads, stream revetments and other in stream practices as rock riffle installation. CRWD studies and assessments have shown that our in-stream issues are affecting water quality and that the biological life within Dobbins Creek is stressed by fine sediment. Practices include streambank revetment, pool riffle structures, remeandering oxbow rehabilitation, and streambank stabilization. This area is high in turbidity and according to the TMDL study 80% reduction in sediment during high flow events are needed to bring it into compliance with state standard. Through this process we will show significant improvement through IBI numbers. University of Minnesota staff will assist CRWD staff in siting and design of these projects.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Mar-15	End Date	30-Dec-17
Rates and Hours			
Actual Results			

Grant Attachments

Document Name	Document Type	Description
2014 Targeted Watershed	Grant Agreement	2014 Targeted Watershed - Cedar River WD
2014 Targeted Watershed executed	Grant Agreement	2014 Targeted Watershed - Cedar River WD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/27/2015
Application	Grant	2014 - Targeted Watershed (Cedar River WD)

Document Name	Document Type	Description
Gantt Chart PDF	Grant	2014 - Targeted Watershed (Cedar River WD)
Index if Biological Integrity Montioring sites	Grant	2014 - Targeted Watershed (Cedar River WD)
Original Presentation	Grant	2014 - Targeted Watershed (Cedar River WD)
PTM for CRWD	Grant	2014 - Targeted Watershed (Cedar River WD)
Project Management Spreadsheet	Grant	2014 - Targeted Watershed (Cedar River WD)
Proposed Retention Project - Upper Dobbins	Grant	2014 - Targeted Watershed (Cedar River WD)
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 05/30/2014
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 04/07/2014