

Workplan / Grant Application / Project Summary Report  
**2013 Lake Bronson Watershed Runoff Reduction  
Project - Phase III**

Submitted by: **Kittson SWCD**

Grant Fund Type: CWF Clean Water Assistance Grants

Fund Year: 2013

Total Grant Amount:	<b>\$200,000.00</b>	Amount Budgeted for this Workplan:	<b>\$200,000.00</b>	Amount Spent for this workplan:	<b>0.00</b>	Amount Not Spent on this workplan:	<b>\$200,000.00</b>
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**BMP Detail Summary**

Number of BMP's Installed	BMP Name	Shape Type	Linear Ft.	Total Acres	Total Mapped BMPs	Soil Loss Reduction Tons/Yr	Sediment Reduction Tons/Yr	Phosphorus Reduction Lbs/Yr
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Total # installed BMPs:						Tons/Yr	Tons/Yr	Lbs/Yr
Total # mapped BMPs:								

Initiative Name: **2013 CWF Admin - Phase III Lake Bronson Watershed**

Initiative Name: **2013 CWF Admin - Phase III Lake Bronson Watershed**

Initiative Type: Admin/Coordination

Year: 2013

Description

The Kittson Soil and Water Conservation District (SWCD) District Manager or District Coordinator will be in charge of completing all the necessary progress reports in eLINK. The Kittson SWCD District Manager will post reports and other information related to this project on the Kittson SWCD website at [www.nwmnswcd.org](http://www.nwmnswcd.org).

The Kittson SWCD District Coordinator will keep track of expenditures that are charged to this project. The Kittson SWCD District Manager and District Technician will work together to coordinate the work that needs to be done for this project. The administrative work will also involve accounting for and management of in kind contributions from the Two Rivers Watershed District (TRWD), Farm Service Agency (FSA), Natural Resources Conservation Services (NRCS) and the Lake Bronson Watershed landowners.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2013 - Clean Water Assistance Grant - Kittson (SWCD)	10,000.00	10,000.00	0.00		
<b>Totals:</b>	<b>10,000.00</b>	<b>10,000.00</b>	<b>0.00</b>		

Initiative Name: **2013 CWF Project Development - Phase III Lake Bronson Watershed**

Initiative Name: **2013 CWF Project Development - Phase III Lake Bronson Watershed**

Initiative Type: Project Development

Year: 2013

Description

The Kittson Soil and Water Conservation District (SWCD) District Manager and District Technician will work together to plan the installation of 200 acres of grass filter strips within the Lake Bronson Watershed.

The exact locations of these grass filter strips will be identified during the signup /design process. The Kittson SWCD District Manager has already sent out letters informing landowners of the additional incentives to signup for these grass filter strips . Interested applicants will meet with the Kittson SWCD District Manager to discuss and or signup for the program.

The Kittson SWCD will work with the Continuous Conservation Reserve Program (CCRP), Farm Service Agency (FSA), Natural Resources Conservation Services (NRCS) and the obtained Clean Water Funds to promote grass filter strips adjacent to sensitive water bodies that flow to Lake Bronson.

Applicants will sign the necessary paperwork with the Roseau or Kittson FSA and Kittson SWCD . Contracts will start October 1, 2013 or October 1, 2014. Contracts will be for 15 years.

Approved applicants will receive a Farm Service Agency's aerial map with acres assigned to each field . Applicants will also receive a spreadsheet explaining the breakdown of funds, such as how much Farm Service Agency will pay and how much the Clean Water Funds will pay .

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2013 - Clean Water Assistance Grant - Kittson (SWCD)	0.00	0.00	0.00		
2. CWF TRWD Fund - Phase III Lake Bronson	10,000.00	10,000.00	0.00		
<b>Totals:</b>	<b>10,000.00</b>	<b>10,000.00</b>	<b>0.00</b>		

Initiative Name: **2013 CWF Tech./Engineering - Phase III Lake Bronson Watershed**

Initiative Name: **2013 CWF Tech./Engineering - Phase III Lake Bronson Watershed**

Initiative Type: Technical and Engineering

Year: 2013

Description

The Kittson Soil and Water Conservation District (SWCD) District Manager and the Natural Resources Conservation Services (NRCS) will develop the plans and specifications for 200 acres of grass filter strips that will be installed in the Lake Bronson Watershed. Grass filter strips will be designed to NRCS specifications. The District Manager and NRCS will assist with seed plans for the approved areas. Approved applicants will sign their acreage at the Farm Service Agency (FSA) under the CCRP.

These Clean Water Funds will also be used to increase the approved landowner(s) Soil Rental Rate to be competitive with current commodity prices. Once the grass filter strips are planted according to NRCS specifications, the additional Clean Water Funds will be paid in a one time single payment.

Side Water Inlets (SWI), for those applicants who are interested, will be surveyed by the Kittson SWCD and or NRCS. A design will be down by Area NRCS Engineers or the Kittson SWCD District Manager. Checkout of any SWIs will be done by the Kittson SWCD District Manager and/or Area NRCS Engineers. All SWIs will be built and design according to NRCS specifications and guidelines. TAA documentation will be on file at the Kittson SWCD.

Grass Filter Strips widths will be between 60 feet to 120 feet wide and contracts will be 15 years long. The seed mixes will follow the NRCS 393 Grass Filter Strip standard. All grass will be native grasses and only of ecotypes native to the Kittson/Roseau County area. Applicants will submit their seed tags, bills, invoices, personal hours, etc. to the Kittson SWCD or Farm Service Agency to receive up to 90% cost share assistance.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. CWF KSWCD Fund - Phase III Lake Bronson Watershed	20,000.00	20,000.00	0.00		
2. 2013 - Clean Water Assistance Grant - Kittson (SWCD)	0.00	0.00	0.00		
<b>Totals:</b>	<b>20,000.00</b>	<b>20,000.00</b>	<b>0.00</b>		

L&amp;W Project Name:

**Anticipated 2013 CWF Lake Bronson Watershed Reduction Project**BMP(s)

0.

None

POLLUTION REDUCTION ESTIMATE(s)

None

Project Description

The goal of the project is to establish 200 acres of grass filter strips and/or Side Water Inlets (SWI) where needed within the Lake Bronson Watershed in accordance with NRCS specifications. CCRP cost share assistance (up to 90%) will help with the installation/establishment of the grass filter strips and installation/establishment of any Side Water Inlets.

FUND(s)

	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. CWF Landowner Fund - Phase III Lake Bronson Watershed	20,000.00	20,000.00	0.00		
2. 2013 - Clean Water Assistance Grant - Kittson (SWCD)	190,000.00	190,000.00	0.00		
<b>Totals:</b>	<b>210,000.00</b>	<b>210,000.00</b>	<b>0.00</b>		

**Program Specific Workplan Items**

*Needed TMDL Load Reduction (If Applicable):*

*What is the estimated amount of hydrologic benefit?*

*Water Plan Reference:*

Overall Plan of the Two Rivers Watershed District July 6, 2004 page 83 = The lake is subject to sediment and nutrient loading from several upstream state and county ditches. A significant algae bloom during early July of each year and is most likely due to the current inflow conditions.

Overall Plan of the Two Rivers Watershed District July 6, 2004 page 88 = Buffer Strip Establishment: Erosion and sedimentation can be curbed by establishing vegetative buffer strips on either side of field ditches, coulee systems, rivers, legal ditches and road ditches. This will also provide for wildlife habitat and travel corridors.

Roseau County Local Water Management Plan 2010 - 2019 Page 5 = Two Rivers also has many outdoor recreational opportunities of which most occur in Kittson County. Two Rivers South Branch headwaters (aka SD 91, channelized portion) originate south of the City of Badger and eventually flow into Lake Bronson, where people use these waters for swimming and fishing. Many fish are supported by these waters and include northern pike, walleye, perch, sauger, crappie, sunfish, bass, catfish, bullhead, carp, and suckers (TRWD Overall Plan page 13). The Overall Plan also mentions that stream fishery habitat is being degraded due to the unstable watercourse with erosion and sedimentation issues, flashy flows, beaver dam blockages, and loss of upland habitat.

*TMDL Reference (if applicable):*

*Watershed Name (81 Majors)*

Two Rivers Watershed

*Project Description:*

The project will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices and installing Side Water Inlets (SWI) within the Lake Bronson watersheds. Lake Bronson is the only major and recreational lake in Kittson County. Emphasis will be placed on the South Branch of Two Rivers. There is a portion of impaired stream (directly upstream Lake Bronson) reach as identified by the Minnesota Pollution Control (MPCA), which directly feeds Lake Bronson. State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD), will also be targeted as they flow into Lake Bronson also. This project will reduce Phosphorous loading by 12,848 lbs. per year. Sediment loading (from both treatment of upland runoff and from the actual filter strip area) will be reduced by 13,189 tons per year.

*Primary Pollutant Targeted:*

Phosphorus

*Estimated Amount of Primary Pollutant Reduction:*

12,848 pounds per year

*Secondary Pollutant Targeted:*

Sediment Reduction

*Estimated Amount of Secondary Pollutant Reduction:*

13,189 tons per year

*LGU CWF Website*

[www.nwmnswcd.org](http://www.nwmnswcd.org)

*Full Time Equivalent Employees*

0.5