

Workplan / Grant Application / Project Summary Report
Lake Bronson Watershed Runoff Reduction Project

Submitted by: **Kittson SWCD**

Grant Fund Type: CWF Runoff Reduction

Fund Year: 2011

Total Grant Amount:	\$100,000.00	Amount Budgeted for this Workplan:	\$195,000.00	Amount Spent for this workplan:	171,262.00	Amount Not Spent on this workplan:	\$23,738.00
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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
15	Filter Strip - 393	BMP Polygon	0	142.19	15	3,079.00	0.00	3,021.00
Total # installed BMPs: 15						3,079.00	0.00	3,021.00
Total # mapped BMPs: 15						Tons/Yr	Tons/Yr	Lbs/Yr

Initiative Name: **Admin - Lake Bronson Waterhsed**Initiative Type: Admin/CoordinationYear: 2011Description

The Kittson Soil and Water Conservation District (SWCD) District Manager or Program 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. The Kittson SWCD District Coordinator will keep track of expenditures that are charged to this project. The Kittson SWCD District Manager and Program Coordinator 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.

Actual Results

As of 8/15/11, a total of 149.5 hours have been spent on this project since it has been approved. Majority of the work has been contacting landowners on participation in this program. A county fair booth advertised the program. The Kittson SWCD website has been kept up to date with information regarding the Clean Water Funds we have received. Also copier repair/maintenance, Bulk Mailing of District Newsletter and Fuel & Vehicle Maintenance were expenditures incurred by the Kittson SWCD.

As of 2/1/12, a total of 208.5 hours have been spent on this project since it has been approved. Majority of the work has been contacting landowners on participation in this program. The Kittson SWCD website has been kept up to date with information regarding the Clean Water Funds we have received. Also copier repair/maintenance and Fuel & Vehicle Maintenance were expenditures incurred by the Kittson SWCD.

As of 8/1/12, a total of 301 hours have been spent on this project since it has been approved. Majority of the work has been contacting landowners on participation in this program. The Kittson SWCD website has been kept up to date with information regarding the Clean Water Funds we have received. Also copier repair/maintenance and Fuel & Vehicle Maintenance were expenditures incurred by the Kittson SWCD.

As of 12/31/12, a total of 399.5 hours have been spent on this project since it has been approved. Majority of the work has been contacting landowners on participation in this program. Also status reviews of the grass filter strips participants were performed. The Kittson SWCD website has been kept up to date with information regarding the Clean Water Funds we have received. Also copier repair/maintenance and Fuel & Vehicle Maintenance were expenditures incurred by the Kittson SWCD.

FUND(s)

	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	5,000.00	5,000.00	5,000.00	8/1/11	2/1/12
Totals:	5,000.00	5,000.00	5,000.00		

Initiative Name: **Project Development - Lake Bronson Watershed****Initiative Type:** Project Development**Year:** 2011**Description**

The Kittson Soil and Water Conservation District (SWCD) District Manager and Program Coordinator will work together to plan the installation of 100 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 Kittson SWCD. Once the signup period is complete, all applicants will be reviewed by a screening committee consisting of staff members from the Kittson and Roseau SWCD, Two Rivers Watershed District (TRWD), Natural Resources Conservation Services (NRCS) and the Farm Service Agency (FSA). Once the screening committee approves (or does not approve) applicants, the Kittson SWCD will call and let them know to stop into our office to sign paperwork. Contracts will start October 1, 2011 or October 1, 2012. Contracts will be for 10 to 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.

At the end of the applicants contract, the Kittson SWCD hopes they see the benefits of the grass filter strip(s) and keep it there or re enroll it into the CCRP program (if still available).

Actual Results

As of 8/15/11, a total of 149.5 hours have been spent on this project since it has been approved. Majority of the work has been contacting landowners on participation in this program. 11 landowners have been approved for funding. The Kittson SWCD is waiting on official maps, soil rental rates and acres from the Kittson and Roseau Farm Service Agencies. As soon as the Kittson SWCD receives the above information, all landowners will be contacted and to verify they will like to proceed with this project. Unofficial acres as of now is 110 acres of new grass filter strips will be established adjacent to eligible bodies of water within the Lake Bronson Watershed to improve water quality.

As of 2/1/12, a total of 208.5 hours have been spent on this project since it has been approved. Majority of the work has been contacting landowners on participation in this program. 12 landowners have been approved for funding by the Kittson SWCD Board. The Kittson SWCD has received official maps, soil rental rates and acres from the Kittson and Roseau Farm Service Agencies. Official acres as of now are 104.1 acres of new grass filter strips will be established adjacent to eligible bodies of water within the Lake Bronson Watershed to improve water quality.

As of 8/1/12, a total of 301 hours have been spent on this project since it has been approved. 11 of the 12 landowners/contracts have established the desire cover. The Kittson SWCD performed a status review of these sites on 8/23/12. There is one CWF applicant, Randy Dvergsten, who will be planting/establishing his grass filter strip Spring 2013. He will be paid his CWF payments after he plants it in Spring 2013. The request for an extension is required because his soon to be grass filter strip is currently under an existing contract (currently being cropped by his operator) and cannot be planted until Spring 2013.

As of 12/31/12, a total of 399.5 hours have been spent on this project since it has been approve

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. KSWCD Fund - Lake Bronson Watershed	0.00	0.00	0.00		
2. TRWD Fund - Lake Bronson Waterhsed	5,000.00	5,000.00	5,000.00	10/10/12	10/10/12
3. 2011 - Runoff Reduction - Kittson (SWCD)	0.00	0.00	0.00		
Totals:	5,000.00	5,000.00	5,000.00		

Initiative Name: **Technical/Engineering - Lake Bronson Watershed****Initiative Type:** Technical and EngineeringYear: 2011Description

The Kittson Soil and Water Conservation District (SWCD) District Manager and the Natural Resources Conservation Services (NRCS) will develop the plans and specifications for 100 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 from 10 to 15 years long. 3 to 5 grass species will make up the seed mixes that 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.

Applicants will follow the CCRP contract for maintenance of the area. They are allowed to spot clip weeds when necessary but are not allowed to harvest the areas.

Actual Results

11 landowners have signed up for these Clean Water Funds for 110 acres (unofficially). A preliminary site visit has been conducted on 5 side water inlets. Surveys have not been conducted as of yet, as Kittson SWCD/NRCS staff are waiting for the current crops to be harvested.

When the Kittson SWCD staff receives official maps, soil rental rates and acres from the Farm Service Agency, they will develop Conservation Plans through the NRCS Toolkit System. The Kittson SWCD will then contact the approved landowners to stop into the office to sign their CRP as well as there Clean Water Fund paperwork. All approved applicants will plant a diverse native grass seed mixture on their ground. The NRCS/Kittson SWCD staff will create a seed plan will do well for their location.

The Kittson SWCD has assisted or created 12 of the CCRP Conservation Plans, conducted status reviews/site inspections on the proposed/planted sites, ELINK Reporting, staff time related to the project and fuel for the SWCD pickup.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. KSWCD Fund - Lake Bronson Watershed	10,000.00	10,000.00	10,000.00	10/10/12	10/10/12
2. Landowner Fund - Lake Bronson Watershed	0.00	0.00	0.00		
3. 2011 - Runoff Reduction - Kittson (SWCD)	0.00	0.00	0.00		
Totals:	10,000.00	10,000.00	10,000.00		

L&W Project Name: **Anticipated 2011 CWF Project**

BMP(s)

0.
None

POLLUTION REDUCTION ESTIMATE(s)

None

Project Description

The goal of the project is to establish 100 acres within the Lake Bronson Watershed in accordance with NRCS specifications.

Actual Results

As of 8/1/12, a total of 143 hours have been spent on this project since it has been approved. 11 of the 12 landowners/contracts have established the desired cover for 95.3 acres. The Kittson SWCD performed a status review of these sites on 8/23/12. There is one CWF applicant, Randy Dvergsten, who will be planting/establishing his grass filter strip Spring 2013. He will be paid his CWF payments after he plants it in Spring 2013. The request for an extension is required because his soon to be grass filter strip is currently under an existing contract (currently being cropped by his operator) and cannot be planted until Spring 2013.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	95,000.00	95,000.00	83,131.00	10/10/12	10/10/12
2. Landowner Fund - Lake Bronson Watershed	10,000.00	10,000.00	10,410.00	10/10/12	10/10/12
Totals:	105,000.00	105,000.00	93,541.00		

L&W Project Name:

Mark Prosser CWF FY2011-01 Grass Filter Strip

BMP(s)

1. Filter Strip-393

Mapped = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)

273.00 Lbs/Yr

Soil (est. savings)

277.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

11.8 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 95 - Lat. 2.

Status review/site inspection of site occurred on 8/23/12.

FUND(s)

	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	7,664.00	7,664.00	7,664.00	9/17/12	9/17/12
2. Landowner Fund - Lake Bronson Watershed	10,036.00	10,036.00	1,180.00	9/17/12	9/17/12
Totals:	17,700.00	17,700.00	8,844.00		

L&W Project Name:

Mark Prosser CWF FY2011-02 Grass Filter Strip

BMP(s)

1. Filter Strip-393

Mapped = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)

255.00 Lbs/Yr

Soil (est. savings)

233.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

5.6 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering the South Branch of the Two Rivers.

Status review/site inspection was performed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	4,326.00	4,326.00	4,326.00	9/17/12	9/17/12
2. Landowner Fund - Lake Bronson Watershed	4,074.00	4,074.00	560.00	9/17/12	9/17/12
Totals:	8,400.00	8,400.00	4,886.00		

L&W Project Name: **Mark Prosser CWF FY2011-03 Grass Filter Strip**

BMP(s)
1. Filter Strip-393 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)
Phosphorus (est. reduction) 271.00 Lbs/Yr
Soil (est. savings) 272.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

11.0 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering the State Ditch 95 - Lat. 2 Watercourse.

Status review/site inspection was performed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	8,550.00	8,550.00	8,550.00	9/17/12	9/17/12
2. Landowner Fund - Lake Bronson Watershed	7,950.00	7,950.00	1,100.00	9/17/12	9/17/12
Totals:	16,500.00	16,500.00	9,650.00		

L&W Project Name: **Wayne Cummins CWF FY2011-05 Grass Filter Strip**

BMP(s)
1. Filter Strip-393 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)
Phosphorus (est. reduction) 253.00 Lbs/Yr
Soil (est. savings) 229.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

4.9 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering the South Branch of the Two Rivers.

Status review/site inspection was completed on 8/23/12.

FUND(s)

	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	4,590.00	4,590.00	4,590.00	7/17/12	7/17/12
2. Landowner Fund - Lake Bronson Watershed	6,435.00	6,435.00	490.00	7/17/12	7/17/12
Totals:	11,025.00	11,025.00	5,080.00		

L&W Project Name:

Gary Carlson CWF FY2011-06 Grass Filter Strip

BMP(s)

- | | |
|---------------------|---------------------|
| 1. Filter Strip-393 | <i>Mapped = Yes</i> |
| 2. Filter Strip-393 | <i>Mapped = Yes</i> |

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	265.00 Lbs/Yr
Soil (est. savings)	258.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

9.1 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering the South Branch of the Two Rivers.

Status review/site inspection was completed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	5,302.00	5,302.00	5,302.00	7/17/12	7/17/12
2. Landowner Fund - Lake Bronson Watershed	9,713.00	9,713.00	910.00	7/17/12	7/17/12
Totals:	15,015.00	15,015.00	6,212.00		

L&W Project Name: **Bernice Kukowski CWF FY2011-07 Grass Filter Strip**

<u>BMP(s)</u>	
1. Filter Strip-393	<i>Mapped = Yes</i>
2. Filter Strip-393	<i>Mapped = Yes</i>

<u>POLLUTION REDUCTION ESTIMATE(s)</u>	
-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	276.00 Lbs/Yr
Soil (est. savings)	273.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

9.9 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 95 - Lat. 2.

Status review/site inspection was completed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. Landowner Fund - Lake Bronson Watershed	5,980.00	5,980.00	990.00	8/24/12	8/24/12
2. 2011 - Runoff Reduction - Kittson (SWCD)	6,890.00	6,890.00	6,890.00	9/17/12	9/17/12
Totals:	12,870.00	12,870.00	7,880.00		

L&W Project Name: **Kurt Stenberg CWF FY2011-08 Grass Filter Strip**

<u>BMP(s)</u>	
1. Filter Strip-393	<i>Mapped = Yes</i>

<u>POLLUTION REDUCTION ESTIMATE(s)</u>	
-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	238.00 Lbs/Yr
Soil (est. savings)	284.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

11.6 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 95.

Status review/site inspection was completed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	10,394.00	10,394.00	10,394.00	8/22/12	8/22/12
2. Landowner Fund - Lake Bronson Watershed	7,006.00	7,006.00	1,160.00	7/2/12	7/2/12
Totals:	17,400.00	17,400.00	11,554.00		

L&W Project Name:

Ronald Mooney CWF FY2011-09 Grass Filter Strip

BMP(s)

1. Filter Strip-393

Mapped = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)

260.00 Lbs/Yr

Soil (est. savings)

245.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

7.2 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 95 Lat. 2.

Status review/site inspection was completed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. Landowner Fund - Lake Bronson Watershed	4,349.00	4,349.00	720.00	7/2/12	7/2/12
2. 2011 - Runoff Reduction - Kittson (SWCD)	5,011.00	5,011.00	5,011.00	8/22/12	8/22/12
Totals:	9,360.00	9,360.00	5,731.00		

L&W Project Name: **Ronald Mooney CWF FY2011-10 Grass Filter Strip**

BMP(s)

1. Filter Strip-393 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	258.00 Lbs/Yr
Soil (est. savings)	240.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

6.6 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 95 - Lat. 2.

Status reviw/site inspection was completed on 8/23/12.

FUND(s)

	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. Landowner Fund - Lake Bronson Watershed	3,986.00	3,986.00	660.00	7/2/12	7/2/12
2. 2011 - Runoff Reduction - Kittson (SWCD)	4,594.00	4,594.00	4,594.00	8/22/12	8/22/12
Totals:	8,580.00	8,580.00	5,254.00		

L&W Project Name: **Floyd Docken CWF FY2011-11 Grass Filter Strip**

BMP(s)

1. Filter Strip-393 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	215.00 Lbs/Yr
Soil (est. savings)	230.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

5.2 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 95.

Status review/site inspection was completed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	7,770.00	7,770.00	7,770.00	6/29/12	6/29/12
2. Landowner Fund - Lake Bronson Watershed	3,618.00	3,618.00	520.00	7/2/12	7/2/12
Totals:	11,388.00	11,388.00	8,290.00		

L&W Project Name: **Floyd Docken CWF FY2011-12 Grass Filter Strip**

BMP(s)

- | | |
|---------------------|---------------------|
| 1. Filter Strip-393 | <i>Mapped = Yes</i> |
| 2. Filter Strip-393 | <i>Mapped = Yes</i> |

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	233.00 Lbs/Yr
Soil (est. savings)	282.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

12.4 acres of native grasses was established Spring of 2012. These native grasses will help decrease movement of sediment, nutrients and bacteria from entering State Ditch 91.

Status review/site inspection completed on 8/23/12.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. 2011 - Runoff Reduction - Kittson (SWCD)	18,040.00	18,040.00	18,040.00	6/29/12	6/29/12
2. Landowner Fund - Lake Bronson Watershed	9,116.00	9,116.00	1,240.00	7/2/12	7/2/12
Totals:	27,156.00	27,156.00	19,280.00		

BMP(s)

1. Filter Strip-393

Mapped = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)

Phosphorus (est. reduction)

224.00 Lbs/Yr

Soil (est. savings)

256.00 Tons/Yr

Project Description

This grass filter strip will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).

Actual Results

Area was not planted in Spring 2012. It will be planted in Spring 2013.

Status review/site inspection completed on 8/23/12.

FUND(s)

	<u>Budgeted</u>	<u>Approved</u>	<u>Spent</u>	<u>First Spend Date</u>	<u>Last Spend Date</u>
1. Landowner Fund - Lake Bronson Watershed	6,023.00	6,023.00	880.00	7/2/12	7/2/12
2. 2011 - Runoff Reduction - Kittson (SWCD)	11,869.00	11,869.00	0.00		
3. 2012 - Clean Water Assistance - Kittson (SWCD)	1,908.00	1,908.00	0.00		
Totals:	19,800.00	19,800.00	880.00		

Program Specific Workplan Items

<i>Needed TMDL Load Reduction (If Applicable):</i>	No TMDL in place
<i>What is the estimated amount of hydrologic benefit?</i>	Anticipated outcome will be that 100 acres of grass filter strips will be established adjacent to highly sensitive water corridors. Out of these 100 acres of grass filter strips; 400 tons/year of sediment will be reduced from the filter strip area, 6,195 tons/year of sediment will be reduced from upland runoff and 6,424 lbs/year of phosphorus will be reduced for improving water quality and improved habitat for wildlife.
<i>By what mechanism is this project affecting hydrology?</i>	4.00
<i>8 Digit HUC Code (81 Majors)</i>	70.00
<i>Water Plan Reference:</i>	Overall Plan of the Two Rivers Watershed District (Pages 82 to 89) and the Kittson County Comprehensive Local Water Plan.
<i>TMDL Reference (if applicable):</i>	No TMDL in place.
<i>Project Description:</i>	The project will reduce runoff and decrease movement of sediment, nutrients and bacteria by targeting, prioritizing and installing vegetative practices within Lake Bronson and upland subwatersheds. Emphasis will be placed on State Ditch 90, 91 and 95 which are subwatersheds within the Two Rivers Watershed District (TRWD).
<i>Primary Pollutant Targeted:</i>	Phosphorus
<i>Estimated Amount of Primary Pollutant Reduction:</i>	6,424 lbs. / year
<i>Secondary Pollutant Targeted:</i>	Sediment - Filter Strip Treatment of Upland Runoff
<i>Estimated Amount of Secondary Pollutant Reduction:</i>	6,195 tons / year
<i>Additional Pollutant Targeted:</i>	Sediment - Soil Loss Reduction from Filter Strip Area
<i>Estimated Amount of Additional Pollutant Reduction:</i>	400 tons / year
<i>Estimated number of plans/designs to be completed (if applicable):</i>	10 Filter Strip Participants (100 acre goal)