



## 2010 - Native Buffer Cost Share - Ramsey (SWCD)

### Fund Report

#### Ramsey

#### Fund Information

<u>Fund Name</u>	<u>Fund Year</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
<b>2010 - Native Buffer Cost Share - Ramsey (SWCD)</b>	2010	\$274,874.39	\$197,984.50	03/21/2012
Starting Balance:		\$282,569.00		
Balance Remaining:		\$84,584.50		

#### **Other funds used with this fund.**

NB-FY10 Match: Rice Creek Watershed District	2010	\$84,319.07	\$72,171.83	03/19/2012
NB-FY10 Match: Northwestern College	2010	\$33,355.75	\$33,355.75	12/22/2010
NB-FY10 Match: Gervais/Kohlman Lake Landowners	2010	\$7,021.97	\$7,021.97	10/17/2011
NB-FY10 Match: Ramsey-Washington Metro WD	2010	\$18,459.66	\$4,153.97	09/19/2011
NB-FY10 Match: Northwestern College Phase II	2010	\$38,816.08	\$38,816.08	03/19/2012
NB-FY10 Match: Arden Hills Island Beach Club	2010	\$4,998.44	\$0.00	
NB-FY10 Match: Caksey Residence	2010	\$2,305.69	\$0.00	
NB-FY10 Match: Coleman Residence	2010	\$2,625.38	\$0.00	
NB-FY10 Match: CRWD	2010	\$7,502.50	\$0.00	
<b>Subtotal:</b>		<b>\$199,404.54</b>	<b>\$155,519.60</b>	
<b>Total:</b>		<b>\$474,278.93</b>	<b>\$353,504.10</b>	

#### Initiatives Summary

*Amount spent by initiative type.*

2010 - Native Buffer Cost Share - Ramsey (SWCD)

	<u>Budgeted</u>	<u>Spent</u>
Technical and Engineering	\$56,513.80	\$39,596.91
<b>Total:</b>	<b>\$56,513.80</b>	<b>\$39,596.91</b>

**Land & Water Projects Summary**

Amount spent on L&W Projects.

	Budgeted	Spent
Total:	<b>\$218,360.59</b>	<b>\$158,387.59</b>

**BMP Summary**

BMP Name	BMPs entered	BMPs installed*	Linear Ft.	Total Acres	Mapped BMPs
Critical Area Planting - 342	1	0		10.12	1
Streambank and Shoreline Protection - 580	10	5	3,961		9
<b>Totals:</b>	<b>11</b>	<b>5</b>			<b>10</b>

\*Note: BMPs entered in eLINK are considered to be "installed on the ground" if an "actual completion date" has been entered for the project.

**Indicator Summary**

Total pollution reduction estimates for all projects by category.

	<u>Value</u>	<u>Unit</u>
<b>-Water Pollution (Reduction Estimates)</b>		
Phosphorus (est. reduction)	35.99	Lbs/Yr
Sediment (TSS)	36.95	Tons/Yr
Soil (est. savings)	40.45	Tons/Yr

**Initiative: NB-FY10 T&A**

Year: 2010

Start Date: 06/01/2010

Initiative Type: Technical and Engineering

Completion Date:

Description

Ryan Johnson: Ryan has been in the environmental field for 7 years specializing in native vegetation and urban bmps to improve and protect water quality. He has NRCS TAA, Certified In-Training Wetland Delineator, and severy MN/DoT certificaitions. He also is the technical professional for all the watershed/wmo's within Ramsey County.

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	56,513.80	39,596.91	3/21/12
<b>Totals:</b>	<b>56,513.80</b>	<b>39,596.91</b>	

**Project: NB-FY10: Northwestern College Phase 1**

Project Number: NB-FY10-1a  
 Primary Cooperator: Northwestern College - Brian L. Humphries  
 Primary Practice: Streambank of Shoreland Protection

Approval Date: 6/29/2010  
 Start Date: 07/12/2010  
 Completion Date: 12/02/2010

Description

Stabilize 1,684 lineal feet of highly eroded shoreline that is owned by Northwestern College in Roseville. A combination of erosion control products, native plants, and soil lifts or BioD Blocks will be used to create a stable shoreline. NWC will maintain as needed for the long term with yearly inspections from the RCD to keep on top of the large project. Partnering agencies include the RCD and RCWD. Highly visible project that will have a great impact not only to water quality, but also education. The school is looking at using students for planting labor, and are looking into ways of using the shoreline as an outdoor classroom.

Actual Results

One half of the entire shoreline (1,684 lin-ft, 35,000 sq-ft) was restored in 2010. The use of erosion control materials and native plants have stabilized the extremely eroded sandy shoreline. Over 40 species of plants were used in the emergent, transitional, and upland area (woodland and savanna).

BMP(s)

1. Streambank and Shoreline Protection-580 *Mapped = No*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
 Phosphorus (est. reduction) 10.60 Lbs/Yr  
 Sediment (TSS) 12.00 Tons/Yr  
 Soil (est. savings) 12.00 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. NB-FY10 Match: Northwestern College	33,355.75	33,355.75	12/22/10
2. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	66,711.50	66,711.50	12/22/10
3. NB-FY10 Match: Rice Creek Watershed District	33,355.75	33,355.75	12/22/10
<b>Totals:</b>	<b>133,423.00</b>	<b>133,423.00</b>	

**Project: NB-FY10: Northwestern College Phase 2**

Project Number: NB-FY10-6  
 Primary Cooperator: Northwestern College - Brian L. Humphries  
 Primary Practice: Streambank of Shoreland Protection

Approval Date: 9/24/2010  
 Start Date: 08/08/2011  
 Completion Date: 10/30/2011

Description

Stabilize 2,000 lineal feet of highly eroded shoreline that is owned by Northwestern College (NWC) in Roseville. A combination of erosion control practices, native plants, and soil lifts or BioD Blocks will be used to create a stable shoreline. NWC will maintain the project as needed for the long term with yearly inspections from the RCD to keep on top of the large project. Partnering agencies include the RCD, RCWD, and NWC.

Actual Results

The project was installed this past summer and fall. It will be the final shoreline component to stabilize on the college. Now, approximately 3,600 lineal feet have been restored reducing phosphorus loading to the lake by almost 20 lbs/yr.

Comments

Highly visible project that will remove 10.6lbs of Phosphorus (\$287/lbs/yr) and 24,940lbs of TSS (\$0.12/lbs/yr) for Phase 2. The school is looking at using student labor again in 2011 for the planting and some of the installation. Phase 1 of the project was a huge success and the numbers of removal are equal to the above.

BMP(s)

1. Streambank and Shoreline Protection-580                      *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
 Phosphorus (est. reduction)    8.90 Lbs/Yr  
 Sediment (TSS)    10.10 Tons/Yr  
 Soil (est. savings)    10.10 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. NB-FY10 Match: Northwestern College Phase II	38,816.08	38,816.08	3/19/12
2. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	77,632.15	77,632.15	3/19/12
3. NB-FY10 Match: Rice Creek Watershed District	38,816.08	38,816.08	3/19/12
<b>Totals:</b>	<b>155,264.31</b>	<b>155,264.31</b>	

**Project: NB-FY10 Weavers Residence**

Project Number: NB-FY10-3  
Primary Cooperator: Ramsey Conservation District - Ryan Johnson  
Primary Practice: Streambank of Shoreland Protection

Approval Date: 10/24/2010  
Start Date: 06/20/2011  
Completion Date: 07/27/2011

Description

Restore 90 lin-ft of shoreline and adding a buffer that all together equals 5,260 sq-ft on Lake Gervais in Little Canada.

Actual Results

Restored the entire shoreline and added the native buffer. Project was a success and the owner is excited.  
A supplemental planting will be needed in the spring of 2012. The high water level due to the July storms destroyed some of the newly planted plugs.

BMP(s)

1. Streambank and Shoreline Protection-580                      *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
Phosphorus (est. reduction)    1.14 Lbs/Yr  
Sediment (TSS)    0.99 Tons/Yr  
Soil (est. savings)    0.99 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. NB-FY10 Match: Gervais/Kohlman Lake Landowners	2,628.97	2,628.97	8/5/11
2. NB-FY10 Match: Ramsey-Washington Metro WD	2,628.97	2,628.97	8/5/11
3. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	5,257.94	5,257.94	8/5/11
<b>Totals:</b>	<b>10,515.88</b>	<b>10,515.88</b>	

**Project: NB-FY10 Nichols Residence**

Project Number: NB-FY10-4  
Primary Cooperator: NB-FY10 - Linda Nichols  
Primary Practice: Streambank of Shoreland Protection

Approval Date: 6/11/2011  
Start Date: 08/01/2011  
Completion Date: 08/31/2011

Description

Restore 160 lin-ft of shoreline and adding a buffer that all together equals 1,300 sq-ft on Lake Gervais in Little Canada.

Actual Results

Restored 160 lineal feet (1,300 sq-ft) of eroding shoreline on Lake Gervais. The project used some existing rip rap to help stabilize the shoreline because of the location on a small peninsula. The high visibility project has already had people asking the owner questions about the process.

BMP(s)

1. Streambank and Shoreline Protection-580                      *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
Phosphorus (est. reduction)    2.09 Lbs/Yr  
Sediment (TSS)    1.66 Tons/Yr  
Soil (est. savings)    1.66 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	5,736.00	5,736.00	10/17/11
2. NB-FY10 Match: Gervais/Kohlman Lake Landowners	2,868.00	2,868.00	10/17/11
3. NB-FY10 Match: Ramsey-Washington Metro WD	0.00	0.00	
<b>Totals:</b>	<b>8,604.00</b>	<b>8,604.00</b>	

**Project: NB-FY10 Murphy Residence**

Project Number: NB-FY10-5  
Primary Cooperator: NB-FY10 - Heidi Murphy  
Primary Practice: Streambank of Shoreland Protection

Approval Date: 6/11/2011  
Start Date: 08/10/2011  
Completion Date: 09/19/2011

Description

Restore 70 lin-ft of shoreline and adding a buffer that all together equals 1,440 sq-ft on Lake Gervais in Little Canada.

Actual Results

Restored the entire shoreline and added the native buffer. Project was a success and the owner motivated to maintain the project.

BMP(s)

1. Streambank and Shoreline Protection-580      *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
Phosphorus (est. reduction)      0.84 Lbs/Yr  
Sediment (TSS)      0.75 Tons/Yr  
Soil (est. savings)      0.75 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	3,050.00	3,050.00	9/19/11
2. NB-FY10 Match: Gervais/Kohlman Lake Landowners	1,525.00	1,525.00	9/19/11
3. NB-FY10 Match: Ramsey-Washington Metro WD	1,525.00	1,525.00	9/19/11
<b>Totals:</b>	<b>6,100.00</b>	<b>6,100.00</b>	

**Project: NB-FY10 Keller Golf Course Project**

Project Number: NB-FY10-2  
Primary Cooperator: RC Parks & Recs Dept - John Moriarty  
Primary Practice: Streambank of Shoreland Protection

Approval Date: 7/11/2011  
Start Date:  
Completion Date:

Description

Native restoration that drains to Keller Lake on the Keller Golf Course in Maplewood, MN

Actual Results

under construction. completion in 2012.

Comments

Project was approved through a work plan amendment of 6/28/11 for the purposes of expanding the project area.

<u>BMP(s)</u>		<u>POLLUTION REDUCTION ESTIMATE(s)</u>	
1. Critical Area Planting-342	Mapped = Yes	-Water Pollution (Reduction Estimates)	
		Phosphorus (est. reduction)	2.54 Lbs/Yr
		Sediment (TSS)	1.75 Tons/Yr
		Soil (est. savings)	1.75 Tons/Yr

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	24,000.00	0.00	
2. NB-FY10 Match: Ramsey-Washington Metro WD	12,000.00	0.00	
<b>Totals:</b>	<b>36,000.00</b>	<b>0.00</b>	



**Project: NB-FY10: Coleman Residence**

Project Number: NB-FY10-9  
 Primary Cooperator: NB-FY10 - Patrick Coleman  
 Primary Practice: Streambank of Shoreland Protection

Approval Date: 11/14/2011  
 Start Date:  
 Completion Date:

Description

Restore and stabilize 70 lineal feet of highly erodible shoreline on Lake McCarrons in Roseville. Project partners include the RCD, CRWD, and the Coleman's.

BMP(s)

1. Streambank and Shoreline Protection-580 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
 Phosphorus (est. reduction) 1.33 Lbs/Yr  
 Soil (est. savings) 3.50 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. NB-FY10 Match: Coleman Residence	2,625.38	0.00	
2. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	5,250.75	0.00	
3. NB-FY10 Match: CRWD	2,625.38	0.00	
<b>Totals:</b>	<b>10,501.51</b>	<b>0.00</b>	

**Project: NB-FY10: Caskey Residence**

Project Number: NB-FY10-7  
 Primary Cooperator: NB-FY10 - Mark Caksey  
 Primary Practice: Streambank of Shoreland Protection

Approval Date: 9/19/2011  
 Start Date:  
 Completion Date:

Description

Stabilize 175 lineal feet of shoreline on Gervais Lake. The total square footage is calculated to be 5,250. This square footage also includes the 5-10 foot buffer that will be added to better protect the shoreline and also filter overland flow from the large turf landscaping.

Actual Results

2012 construction

BMP(s)

1. Streambank and Shoreline Protection-580 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
 Phosphorus (est. reduction) 1.25 Lbs/Yr  
 Sediment (TSS) 1.40 Tons/Yr  
 Soil (est. savings) 1.40 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. NB-FY10 Match: Ramsey-Washington Metro WD	2,305.69	0.00	
2. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	4,611.38	0.00	
3. NB-FY10 Match: Caksey Residence	2,305.69	0.00	
<b>Totals:</b>	<b>9,222.76</b>	<b>0.00</b>	

**Project: NB-FY10: Arden Hills Island Beach Club- Phase II**

Project Number: NB-FY10-8

Approval Date: 10/17/2011

Primary Cooperator: Arden Hills Island Beach Club - Bill Kaplan

Start Date:

Primary Practice: Streambank of Shoreland Protection

Completion Date:

Description

Phase II of IV phases stabilizing the shoreline on a small island on Lake Johanna. Phase I was completed in 2011 and was a great success. This project will stabilize 300 lineal feet (6,750 sq-ft) using native plants and erosion control materials. The project will also remove buckthorn, honeysuckle and other non-native aggressive plants.

Actual Results

construction

BMP(s)

1. Streambank and Shoreline Protection-580 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
Phosphorus (est. reduction) 3.00 Lbs/Yr  
Sediment (TSS) 3.60 Tons/Yr  
Soil (est. savings) 3.60 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. NB-FY10 Match: Arden Hills Island Beach Club	4,998.44	0.00	
2. NB-FY10 Match: Rice Creek Watershed District	9,986.88	0.00	
3. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	4,998.44	0.00	
<b>Totals:</b>	<b>19,983.76</b>	<b>0.00</b>	

**Project: NB-FY10: Como Shoreline 2012**

Project Number: NB-FY10-10

Approval Date: 12/12/2011

Primary Cooperator: City of St Paul - Division of Park and Recreations - Adam Robbins

Start Date:

Primary Practice: Streambank of Shoreland Protection

Completion Date:

Description

Stabilize the last remaining section of Como Lake that has not been stabilized since the shoreline work started in 2002. This phase will restore 500 lineal feet (15,000 sq-ft) using native plants and erosion control materials. The project will also remove non-natives and create a more diverse habitat.

BMP(s)

1. Streambank and Shoreline Protection-580 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	3.20 Lbs/Yr
Sediment (TSS)	3.60 Tons/Yr
Soil (est. savings)	3.60 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	14,631.36	0.00	
2. NB-FY10 Match: CRWD	4,877.12	0.00	
<b>Totals:</b>	<b>19,508.48</b>	<b>0.00</b>	

**Project: NB-FY10: Broghammer Residence**

Project Number: NB-FY10-11

Approval Date: 12/12/2011

Primary Cooperator: NB-FY09 John Broghammer

Start Date:

Primary Practice: Streambank of Shoreland Protection

Completion Date:

Description

This shoreline was restored early in 2011 with Native Buffer Money. The July storms completely ripped the project out when boat traffic was on the lake because the soil lifts did not have a chance to set up with the plants. The goal is to redo the work using a stronger method to prevent the erosion. The failure was due to an act of God and was not foreseeable during the first design and installation phase.

BMP(s)

1. Streambank and Shoreline Protection-580 *Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)	
Phosphorus (est. reduction)	1.10 Lbs/Yr
Sediment (TSS)	1.10 Tons/Yr
Soil (est. savings)	1.10 Tons/Yr

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Native Buffer Cost Share - Ramsey (SWCD)	6,481.07	0.00	
2. NB-FY10 Match: Rice Creek Watershed District	2,160.36	0.00	
<b>Totals:</b>	<b>8,641.43</b>	<b>0.00</b>	

