# 2009 Native Buffers - Ramsey (SWCD)

Fund Report

## Ramsey

### *Fund Information*

| Fund Name | Fund Year | Budgeted | Spent | Date Last Spent |
|---|---|---|---|---|
| **2009 Native Buffers - Ramsey (SWCD)** | 2009 | $129,860.00 | $121,192.54 | 01/04/2012 |
| Starting Balance: $150,000.00 | | | | |
| Balance Remaining: $28,807.46 | | | | |
| **Other funds used with this fund.** | | | | |
| 2008 Native Buffer Cost-Share - Ramsey (SWCD) | 2008 | $10,411.37 | $10,411.37 | 08/30/2010 |
| 2008 T/A Native Buffer Cost-Share - Ramsey (SWCD) | 2008 | $2,602.83 | $2,602.83 | 08/30/2010 |
| 2009 T/A Native Buffers - Ramsey (SWCD) | 2009 | $29,418.08 | $28,807.46 | 01/04/2012 |
| 2009 Native Buffer Local Match - Rice Creek WD | 2009 | $28,796.59 | $27,045.86 | 12/27/2010 |
| 2009 Native Buffer Landowner Match | 2009 | $305,708.01 | $305,708.01 | 12/12/2011 |
| NB-FY09 VLAWMO Matching | 2010 | $17,633.62 | $17,633.62 | 09/10/2010 |
| 2009 Native Buffer Match- CRWD | 2009 | $5,586.32 | $5,586.32 | 09/19/2011 |
| 2009 Native  Buffer Match- GLWMO | 2009 | $1,000.00 | $1,000.00 | 09/02/2010 |
| | Subtotal: | $401,156.82 | $398,795.47 | |
| | **Total:** | **$531,016.82** | **$519,988.01** | |

### *Initiatives Summary*

*Amount spent by initiative type.*

2009 Native Buffers - Ramsey (SWCD)

| | Budgeted | Spent |
|---|---|---|
| Funds Returned to BWSR | $5,962.75 | $5,962.75 |
| Total: | **$5,962.75** | **$5,962.75** |

## Land & Water Projects Summary

*Amount spent on L&W Projects.*

| | Budgeted | Spent |
|---|---|---|
| Total: | **$123,897.25** | **$115,229.79** |

## BMP Summary

| BMP Name | BMPs entered | BMPs installed* | Linear Ft. | Total Acres | Mapped BMPs |
|---|---|---|---|---|---|
| Critical Area Planting - 342 | 1 | 1 | | 1.40 | 1 |
| Streambank and Shoreline Protection - 580 | 20 | 20 | 4,991 | | 20 |
| **Totals:** | **21** | **21** | | | **21** |

**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.*

| | Value | Unit |
|---|---|---|
| **-Water Pollution (Reduction Estimates)** | | |
| Phosphorus (est. reduction) | 38.44 | Lbs/Yr |
| Sediment (TSS) | 38.39 | Tons/Yr |
| Soil (est. savings) | 38.39 | Tons/Yr |

### Initiative: Unspent 2009 Native Buffer Grant

Year: 2009

Initiative Type: Funds Returned to BWSR

Start Date:

Completion Date:

Description

*FUND(s)*

| | | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|---|
| **1.** 2009 Native Buffers - Ramsey (SWCD) | | 5,962.75 | 5,962.75 | 1/4/12 |
| | **Totals:** | **5,962.75** | **5,962.75** | |

## *Project: 2009 Native Buffer - Beasley Property*

Project Number: NBFY09-2
Primary Cooperator: NB-FY09 Gene Beasley
Primary Practice: Streambank of Shoreland Protection

Approval Date: 8/10/2009
Start Date: 06/01/2009
Completion Date: 08/10/2009

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on lakes in Ramsey County.

Actual Results

Buckthorn, honeysuckle, and other weeds were cut and treated. Reed canary grass and other invasive plants were pulled and treated. Seeded with No-mow seed. Access area to lake was decreased from 10 feet wide to 6 feet wide. Biologs were placed and staked (3 feet spacing) along entire lengh of shore, except for access area. 6 inches of erosion control fabric tucked under biologs. Entire planting area received 2-3 inches of hardwood mulch. Erodible shoreline was stabilized using native plants and erosion control products on Pike Lake.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 0.64 | Lbs/Yr |
| Sediment (TSS) | 0.64 | Tons/Yr |
| Soil (est. savings) | 0.64 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Landowner Match | 1,675.00 | 1,675.00 | 8/25/09 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 837.50 | 837.50 | 9/23/09 |
| **3.** 2009 Native Buffer Local Match - Rice Creek WD | 1,675.00 | 1,675.00 | 8/10/09 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 3,350.00 | 3,350.00 | 8/19/09 |
| **Totals:** | **7,537.50** | **7,537.50** | |

## *Project: 2009 Native Buffer - Norton Project*

Project Number: NB-FY09-01
Primary Cooperator: Ramsey Conservation District - Ryan Johnson
Primary Practice: Streambank of Shoreland Protection

Approval Date: 5/11/2009
Start Date: 06/01/2009
Completion Date: 08/10/2009

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Ramsey County Lakes.

Actual Results

143 lineal feet (2.040 sq-ft) of eroded shoreline successfully stabalized through the use of 1,043 native plants and erosion control products on Long Lake.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 1.15 | Lbs/Yr |
| Sediment (TSS) | 1.15 | Tons/Yr |
| Soil (est. savings) | 1.15 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Landowner Match | 2,350.00 | 2,350.00 | 8/25/09 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,175.00 | 1,175.00 | 9/23/09 |
| **3.** 2009 Native Buffer Local Match - Rice Creek WD | 2,350.00 | 2,350.00 | 8/25/09 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 4,700.00 | 4,700.00 | 8/19/09 |
| **Totals:** | **10,575.00** | **10,575.00** | |

## *Project: 2009 Native Buffer - Lampi Project*

Project Number: NBFY09-4
Primary Cooperator: NB-FY09 Gene Beasley
Primary Practice: Streambank of Shoreland Protection

Approval Date: 9/14/2009
Start Date: 05/01/2010
Completion Date: 07/12/2010

Description

Restore 85 lin-ft (650 sq-ft) of shoreline on Long Lake using erosion control products and native plants.

Actual Results

The shoreline was restored and the neighboring property was completed at the same time by the same contractor. The two projects now restore 170 lin-ft of shoreline together and cover a total area of 1,175 sq-ft.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 0.51 Lbs/Yr |
| Sediment (TSS) | 0.51 Tons/Yr |
| Soil (est. savings) | 0.51 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Landowner Match | 1,407.00 | 1,407.00 | 7/12/10 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 681.00 | 681.00 | 7/12/10 |
| **3.** 2009 Native Buffer Local Match - Rice Creek WD | 1,362.00 | 1,362.00 | 7/12/10 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 2,724.00 | 2,724.00 | 6/29/10 |
| **Totals:** | **6,174.00** | **6,174.00** | |

## *Project: 2009 Native Buffer - Erickson Project*

Project Number: NBFY09-5
Primary Cooperator: NB-FY09 Gary Erickson
Primary Practice: Streambank of Shoreland Protection

Approval Date: 9/14/2009
Start Date: 05/12/2010
Completion Date: 06/22/2010

Description

Restore 85 lin-ft (650 sq-ft) of shoreline on Long Lake using erosion control products and native plants.

Actual Results

The shoreline was restored and the neighboring property was completed at the same time by the same contractor. The two projects now restore 170 lin-ft of shoreline together and covers a total area of 1,175 sq-ft.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 0.51 Lbs/Yr |
| Sediment (TSS) | 0.51 Tons/Yr |
| Soil (est. savings) | 0.51 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 540.50 | 540.50 | 7/12/10 |
| **2.** 2009 Native Buffer Landowner Match | 1,406.12 | 1,406.12 | 7/12/10 |
| **3.** 2009 Native Buffers - Ramsey (SWCD) | 2,162.00 | 2,162.00 | 7/12/10 |
| **4.** 2009 Native Buffer Local Match - Rice Creek WD | 1,081.00 | 1,081.00 | 7/12/10 |
| **Totals:** | **5,189.62** | **5,189.62** | |

## *Project: 2009 Native Buffer - Baker Project*

Project Number: NBFY09-3
Primary Cooperator:
Primary Practice: Streambank of Shoreland Protection

Approval Date: 9/14/2009
Start Date:
Completion Date:

Description

Provide shoreline stabilization and increase water quality in Ramsey County lakes.

Actual Results

Baker Project was cancelled due to the project not starting by the August 26, 2010 deadline.

*BMP(s)*

0.
None

*POLLUTION REDUCTION ESTIMATE(s)*

None

*FUND(s)*

| | | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|---|
| **1.** 2009 Native Buffers - Ramsey (SWCD) | | 6,225.00 | 0.00 | |
| | **Totals:** | **6,225.00** | **0.00** | |

## *Project: 2009 Native Buffer - Ternes Project*

Project Number: NBFY-09-08
Primary Cooperator: Langton Lake - David Ternes
Primary Practice: Streambank of Shoreland Protection

Approval Date: 2/12/2010
Start Date: 08/01/2010
Completion Date: 11/03/2010

Description

Provide shoreline stabilization and increase water quality in Ramsey County lakes. This project is on Langton Lake in Roseville, MN.

Actual Results

96 lin-ft (3,864 sq-ft) of shoreline was restored and a native buffer was created in an area that used to be turf grass. Now all the water from a majority of the home is treated before entering the lake.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 0.67 Lbs/Yr |
| Sediment (TSS) | 0.67 Tons/Yr |
| Soil (est. savings) | 0.67 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffers - Ramsey (SWCD) | 9,826.85 | 9,826.85 | 11/17/10 |
| **2.** 2009 Native Buffer Local Match - Rice Creek WD | 4,913.43 | 4,913.43 | 11/17/10 |
| **3.** 2009 T/A Native Buffers - Ramsey (SWCD) | 2,456.71 | 2,456.71 | 11/17/10 |
| **4.** 2009 Native Buffer Landowner Match | 4,913.42 | 4,913.42 | 11/17/10 |
| **Totals:** | **22,110.41** | **22,110.41** | |

## *Project: Brighton Shores Townhouse*

Project Number: FY08-07
Primary Cooperator: Brighton Shores - NB-FY09 Mike Kitlinski
Primary Practice: Streambank of Shoreland Protection

Approval Date: 6/11/2010
Start Date: 06/12/2010
Completion Date: 07/30/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Long Lake in New Brighton, MN

Actual Results

Stabilized 525 lineal feet (9,267square feet) of highly eroded shoreline on Long Lake in New Brighton. A combination of native plants and erosion control products were used in the the project. The shoreline project also used 90 ton of 9-12" trap rock because the bank was too steep in some areas for native plants to be effective.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 3.27 | Lbs/Yr |
| Sediment (TSS) | 3.85 | Tons/Yr |
| Soil (est. savings) | 3.85 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2008 Native Buffer Cost-Share - Ramsey (SWCD) | 10,411.37 | 10,411.37 | 8/30/10 |
| **2.** 2008 T/A Native Buffer Cost-Share - Ramsey (SWCD) | 2,602.83 | 2,602.83 | 8/30/10 |
| **3.** 2009 Native Buffers - Ramsey (SWCD) | 2,442.46 | 2,442.46 | 8/30/10 |
| **4.** 2009 T/A Native Buffers - Ramsey (SWCD) | 610.62 | 610.62 | 8/30/10 |
| **5.** 2009 Native Buffer Landowner Match | 29,839.47 | 29,839.47 | 8/13/10 |
| **Totals:** | **45,906.75** | **45,906.75** | |

## *Project: 2009 Native Buffer- Parkin Property*

Project Number: NB-FY09-7
Primary Cooperator: NB-FY09 William Parkin
Primary Practice: Streambank of Shoreland Protection

Approval Date: 11/9/2009
Start Date: 11/10/2009
Completion Date: 10/05/2010

Description

Stabilize and Restore 84 lin-ft (505 sq-ft) of the Rice Creek Streambank in New Brighton. We will utilize the existing rip rap to create weirs to move the current away from the bank and also create small pools for habitat. The existing rip rap is eroding on the bank side and also creating a head cut from overland flow.

Actual Results

Stabilized the 84 lin-ft (505 sq-ft) of streambank on Rice Creek. The project used the rock and created weirs and a rock toe for constant low flow conditions. The weirs were created in November of 2009 and held up through 2010 with no issues and they should continue to create pools for fish.

Comments

This was a very good project to utilize the existing rock to create a low flow rock toe and weirs. The plugs were planted amoungst the rocks in combination with the erosion control mat and have held up to the

*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 |
| Sediment (TSS) | 1.33 | Tons/Yr |
| Soil (est. savings) | 1.33 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Local Match - Rice Creek WD | 2,089.75 | 2,089.75 | 10/18/10 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,044.88 | 1,044.88 | 10/15/10 |
| **3.** 2009 Native Buffer Landowner Match | 2,089.75 | 2,089.75 | 10/15/10 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 4,179.50 | 4,179.50 | 10/18/10 |
| **Totals:** | **9,403.88** | **9,403.88** | |

## *Project: NB-FY09: Whitaker Pond*

Project Number: NB-FY09-9
Primary Cooperator: VLAWMO - Stephanie McNamara
Primary Practice: Critical Area Planting, Buffer, or Filter Strip

Approval Date: 4/9/2010
Start Date: 06/15/2010
Completion Date: 07/15/2010

Description

Added native vegetation to the Whitaker Pond project in White Bear Lake/Township.

Actual Results

583 native plugs, shrubs, and trees were installed in partnership with VLAWMO, City of White Bear Lake, and White Bear Township. There was a native seeding completed prior to the plants.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 0.75 | Lbs/Yr |
| Sediment (TSS) | 0.75 | Tons/Yr |
| Soil (est. savings) | 0.75 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,317.84 | 1,317.84 | 9/2/10 |
| **2.** NB-FY09 VLAWMO Matching | 1,757.12 | 1,757.12 | 9/2/10 |
| **3.** 2009 Native Buffers - Ramsey (SWCD) | 5,271.35 | 5,271.35 | 9/2/10 |
| **Totals:** | **8,346.31** | **8,346.31** | |

## *Project: NB-FY09: Birch Lake*

Project Number: NB-FY09-10
Primary Cooperator: VLAWMO - Stephanie McNamara
Primary Practice: Streambank of Shoreland Protection

Approval Date: 4/9/2010
Start Date: 05/30/2010
Completion Date: 07/22/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Birch Lake with partnering agencies: VLAWMO and the City of White Bear Lake.

Actual Results

Stabilized 130 lin-ft (1,300 sq-ft) of shoreline on Birch Lake in White Bear Lake. Native plants were used in conjuction with erosion control materials, and mulch to restore the area and signage was posted to create an educational component for the foot traffic from the walking path.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 0.83 Lbs/Yr |
| Sediment (TSS) | 0.83 Tons/Yr |
| Soil (est. savings) | 0.83 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** NB-FY09 VLAWMO Matching | 15,876.50 | 15,876.50 | 9/10/10 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,745.63 | 1,745.63 | 9/2/10 |
| **3.** 2009 Native Buffers - Ramsey (SWCD) | 6,982.50 | 6,982.50 | 9/2/10 |
| **Totals:** | **24,604.63** | **24,604.63** | |

## *Project: NB-FY09: Schultz Residence*

Project Number: NB-FY09-12
Primary Cooperator: NB-FY09 William Schultz
Primary Practice: Streambank of Shoreland Protection

Approval Date: 5/14/2010
Start Date: 06/30/2010
Completion Date: 09/21/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Lake Johanna.

Actual Results

Restored 100 lin-ft (1,000 sq-ft) of highly eroded shoreline on Lake Johanna. There was a large undercut being created due to wave and wake action and the woody vegetation was starting to slump in places. Now the shore was rebuilt and is extremely stable.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 2.55 Lbs/Yr |
| Sediment (TSS) | 2.55 Tons/Yr |
| Soil (est. savings) | 2.55 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,085.15 | 1,085.15 | 10/12/10 |
| **2.** 2009 Native Buffer Local Match - Rice Creek WD | 2,170.30 | 2,170.30 | 10/12/10 |
| **3.** 2009 Native Buffer Landowner Match | 2,170.30 | 2,170.30 | 10/12/10 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 4,340.60 | 4,340.60 | 10/12/10 |
| **Totals:** | **9,766.35** | **9,766.35** | |

## *Project: NB-FY09: Rosewood Pond*

Project Number: NB-FY09-13
Primary Cooperator: City of Roseville - Kristine Giga
Primary Practice: Streambank of Shoreland Protection

Approval Date: 5/14/2010
Start Date: 02/13/2011
Completion Date: 06/22/2011

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on lakes in Ramsey County.

Actual Results

Stabilized 500 lin-ft (15,000sq-ft) of wetland edge in Roseville. Native plants were used in conjuction with erosion control materials, and mulch to restore the area and signage was posted to create an educational component for the foot traffic from the walking path.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 2.90 | Lbs/Yr |
| Sediment (TSS) | 2.22 | Tons/Yr |
| Soil (est. savings) | 2.22 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Landowner Match | 224,614.62 | 224,614.62 | 10/17/11 |
| **2.** 2009 Native Buffers - Ramsey (SWCD) | 14,111.25 | 14,111.25 | 1/4/12 |
| **3.** 2009 T/A Native Buffers - Ramsey (SWCD) | 3,527.81 | 3,527.81 | 1/4/12 |
| **Totals:** | **242,253.68** | **242,253.68** | |

## *Project: NB-FY09: Kitlinski Residence (Brighton Shores)*

Project Number: NB-FY09-14
Primary Cooperator: Brighton Shores - NB-FY09 Mike Kitlinski
Primary Practice: Streambank of Shoreland Protection

Approval Date: 6/11/2010
Start Date: 06/12/2010
Completion Date: 08/10/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Long Lake.

Actual Results

Restored 525 lin-ft (9,267 sq-ft) of shoreline on Long Lake. Rip rap was used on the project but was not funded by any cost share money. Now the 3' cut bank is stabilized and there are 4.240 native plants protecting the shoreline and creating a buffer.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 3.25 Lbs/Yr |
| Sediment (TSS) | 3.25 Tons/Yr |
| Soil (est. savings) | 3.25 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffers - Ramsey (SWCD) | 2,442.46 | 0.00 | |
| **2.** 2009 Native Buffer Local Match - Rice Creek WD | 1,750.73 | 0.00 | |
| **3.** 2009 T/A Native Buffers - Ramsey (SWCD) | 610.62 | 0.00 | |
| **Totals:** | **4,803.81** | **0.00** | |

## *Project: NB-FY09: Dahlberg Residence*

Project Number: NB-FY09-15
Primary Cooperator: McCarrons Lake - NB-FY09 Marilieke Dahlberg
Primary Practice: Streambank of Shoreland Protection

Approval Date: 9/17/2010
Start Date: 07/07/2010
Completion Date: 09/15/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Lake McCarrons.

Actual Results

Stabilized 100 lin-ft (1,690 sq-ft) of extremely eroded shoreline. The existing shoreline had a number of different bricks, cement, and wood pieces used as the original stabilizer. Now the native plants and erosion control products have restored the shoreline to a quality buffer.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 2.75 Lbs/Yr |
| Sediment (TSS) | 2.75 Tons/Yr |
| Soil (est. savings) | 2.75 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffers - Ramsey (SWCD) | 4,422.64 | 4,422.64 | 10/12/10 |
| **2.** 2009 Native Buffer Landowner Match | 2,211.32 | 2,211.32 | 10/12/10 |
| **3.** 2009 Native Buffer Match- CRWD | 2,211.32 | 2,211.32 | 10/12/10 |
| **4.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,105.66 | 1,105.66 | 10/12/10 |
| **Totals:** | **9,950.94** | **9,950.94** | |

## *Project: NB-FY09: Perra Residence*

Project Number: NB-FY09-16
Primary Cooperator: NB-FY09 Beth Perra
Primary Practice: Streambank of Shoreland Protection

Approval Date: 6/11/2010
Start Date: 06/15/2010
Completion Date: 07/16/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Lake Owasso.

Actual Results

82 lin-ft (3,100 sq-ft) of shoreline was restored using native plants and erosion control materials. The large buffer that was created will help filter the large amoutnt of stormwater that comes down the long turf grass slope and connected impervious surfaces.

*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) | 2.09 | Tons/Yr |
| Soil (est. savings) | 2.09 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,812.50 | 1,812.50 | 9/2/10 |
| **2.** 2009 Native Buffer Match- GLWMO | 1,000.00 | 1,000.00 | 9/2/10 |
| **3.** 2009 Native Buffers - Ramsey (SWCD) | 7,250.00 | 7,250.00 | 9/2/10 |
| **4.** 2009 Native Buffer Landowner Match | 8,075.00 | 8,075.00 | 9/2/10 |
| **Totals:** | **18,137.50** | **18,137.50** | |

## *Project: NB-FY09: Broghammer Residence*

Project Number: NB-FY09-18
Primary Cooperator: NB-FY09 John Broghammer
Primary Practice: Streambank of Shoreland Protection

Approval Date: 8/13/2010
Start Date: 08/14/2010
Completion Date: 09/21/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Long Lake.

Actual Results

Restored 75 lin-ft (1,200 sq-ft) of shoreline on Long Lake. The highly eroded shoreline had old failed rip rap that was used to make a rock to and some of the material was capped under a small soil lift that has native plugs planted into it.

*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)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Local Match - Rice Creek WD | 1,612.50 | 1,612.50 | 10/12/10 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 806.25 | 806.25 | 10/12/10 |
| **3.** 2009 Native Buffer Landowner Match | 1,612.50 | 1,612.50 | 10/12/10 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 3,225.00 | 3,225.00 | 10/12/10 |
| **Totals:** | **7,256.25** | **7,256.25** | |

## *Project: NB-FY09: Southport (Louis Jambois)*

Project Number: NB-FY09-17
Primary Cooperator: NB-FY09 Match - Louis Jambois
Primary Practice: Wetland Resotration

Approval Date: 8/13/2010
Start Date: 06/10/2011
Completion Date: 10/30/2011

Description

A large wetland restoration project in partnership with the City of St Paul in the floodplain of the Mississippi River adjacent to the airport.

Actual Results

Multiple acres of eroding soil were shaped into the current wetland that is in place. One piece of wetland was planted and seeded to help diversify the existing vegetation and the larger portion was seeded with BWSR's wetland mix to create a natural floodplain of the river.

*BMP(s)*

1. Critical Area Planting-342 — *Mapped* = Yes

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 3.33 | Lbs/Yr |
| Sediment (TSS) | 2.54 | Tons/Yr |
| Soil (est. savings) | 2.54 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 2,575.18 | 2,575.18 | 12/12/11 |
| **2.** 2009 Native Buffer Landowner Match | 3,433.57 | 3,433.57 | 12/12/11 |
| **3.** 2009 Native Buffers - Ramsey (SWCD) | 10,300.73 | 10,300.73 | 12/12/11 |
| **Totals:** | **16,309.48** | **16,309.48** | |

## *Project: NB-FY09: Vaughan Residence*

Project Number: NB-FY09-19
Primary Cooperator: NB-FY09 Anne Vaughan
Primary Practice: Streambank of Shoreland Protection

Approval Date: 8/13/2010
Start Date: 08/14/2010
Completion Date: 09/01/2010

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Lake McCarrons.

Actual Results

Restored 43 lin-ft (515 sq-ft) of shoreline was restored on Lake McCarrons. 203 Native plants and erosion control materials were used on this highly eroded shoreline.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 0.48 | Lbs/Yr |
| Sediment (TSS) | 0.48 | Tons/Yr |
| Soil (est. savings) | 0.48 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 612.50 | 612.50 | 10/12/10 |
| **2.** 2009 Native Buffer Landowner Match | 1,225.00 | 1,225.00 | 10/12/10 |
| **3.** 2009 Native Buffer Match- CRWD | 1,225.00 | 1,225.00 | 10/12/10 |
| **4.** 2009 Native Buffers - Ramsey (SWCD) | 2,450.00 | 2,450.00 | 10/12/10 |
| **Totals:** | **5,512.50** | **5,512.50** | |

## *Project: NB-FY09: AHIBC (Aaron Seymour)*

Project Number: NB-FY09-20
Primary Cooperator: NB-FY09 Aaron Seymour
Primary Practice: Streambank of Shoreland Protection

Approval Date: 8/13/2010
Start Date: 08/14/2010
Completion Date: 11/12/2010

Description

Stabilize a highly eroded shoreline that is very visable to people on Lake Johanna. It is owned by the Arden Hills Island Beach Club.

Actual Results

Stabilized 1/4 of the total shoreline. 300 lin-ft (6.750 sq-ft) was restored using native plants, bioengineering, and erosion control materials. This was phase 1 of 4. Phase 2-4 should be implemented starting 2011.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 2.52 | Lbs/Yr |
| Sediment (TSS) | 2.97 | Tons/Yr |
| Soil (est. savings) | 2.97 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffers - Ramsey (SWCD) | 4,895.94 | 4,895.94 | 12/27/10 |
| **2.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,223.98 | 1,223.98 | 12/27/10 |
| **3.** 2009 Native Buffer Local Match - Rice Creek WD | 9,791.88 | 9,791.88 | 12/27/10 |
| **4.** 2009 Native Buffer Landowner Match | 4,895.94 | 4,895.94 | 12/27/10 |
| **Totals:** | **20,807.74** | **20,807.74** | |

## *Project: NB-FY09: Thienes Residence*

Project Number: NB-FY09-21
Primary Cooperator: NB-FY09 Match - Michael Thienes
Primary Practice: Streambank of Shoreland Protection

Approval Date: 11/3/2010
Start Date: 06/01/2011
Completion Date: 09/09/2011

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on lakes in Ramsey County.

Actual Results

240 lineal feet of shoreline totalling 5,250 sq-ft was restored on Lake McCarrons. Native plants and erosion control products were used to stabilize the shoreline and create a 5-7ft buffer to help protect the lake from erosion and pollutants from overland flow. It was also successful at discouraging geese from grazing in the property.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 1.44 | Lbs/Yr |
| Sediment (TSS) | 1.20 | Tons/Yr |
| Soil (est. savings) | 1.20 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 1,075.00 | 1,075.00 | 9/27/11 |
| **2.** 2009 Native Buffers - Ramsey (SWCD) | 4,300.00 | 4,300.00 | 9/19/11 |
| **3.** 2009 Native Buffer Landowner Match | 2,150.00 | 2,150.00 | 9/19/11 |
| **4.** 2009 Native Buffer Match- CRWD | 2,150.00 | 2,150.00 | 9/19/11 |
| **Totals:** | **9,675.00** | **9,675.00** | |

## *Project: NB-FY09: Indian Oaks Pond*

Project Number: NB-FY09-22
Primary Cooperator: City of Arden Hills - Kristine Giga
Primary Practice: Streambank of Shoreland Protection

Approval Date: 12/10/2010
Start Date: 07/11/2011
Completion Date: 09/30/2011

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on this pond in Arden Hills. The adjacent partnering landowners drove this project from the beginning.

Actual Results

380 lineal feet of eroding pond edge was stabilized through the use of erosion control materials and native plants. There was also a 5-10 ft wide buffer added that will increase the effectiveness of the pond at removing pollutants. The adjacent property owners will be maintaining the project while the RCD inspects it and helps with plant ID.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | | |
|---|---|---|
| Phosphorus (est. reduction) | 2.83 | Lbs/Yr |
| Sediment (TSS) | 2.83 | Tons/Yr |
| Soil (est. savings) | 2.83 | Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 Native Buffer Landowner Match | 8,311.02 | 8,311.02 | 10/17/11 |
| **2.** 2009 Native Buffers - Ramsey (SWCD) | 8,311.02 | 8,311.02 | 1/4/12 |
| **3.** 2009 T/A Native Buffers - Ramsey (SWCD) | 2,077.76 | 2,077.76 | 1/4/12 |
| **Totals:** | **18,699.80** | **18,699.80** | |

## *Project: NB-FY09: Como Lake*

Project Number: NB-FY09-23
Primary Cooperator: City of St Paul - Division of Park and Recreations - Adam Robbins
Primary Practice: Streambank of Shoreland Protection

Approval Date: 12/10/2010
Start Date: 06/06/2011
Completion Date: 11/14/2011

Description

Stabilize erodible shoreline, while improving water quality and wildlife habitat, through the use of native plants and erosion control products on Como Lake. The project also stabilized a gully that was forming adjacent to the walking path next to the pavilion.

Actual Results

584 lin-ft of shoreline was stabilized using a mix of erosion control materials, envirolok bags, native plants and native seed. The total square footage stabilized was 17,148 and planted with native plugs to create a thick buffer of prairie grasses.

Comments

A lot of supportive public comment came during the installation of the project. The people passing by were glad to see the stabilization project and were asked a lot of questions.

*BMP(s)*

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

*POLLUTION REDUCTION ESTIMATE(s)*

-Water Pollution (Reduction Estimates)

| | |
|---|---|
| Phosphorus (est. reduction) | 3.54 Lbs/Yr |
| Sediment (TSS) | 4.17 Tons/Yr |
| Soil (est. savings) | 4.17 Tons/Yr |

*FUND(s)*

| | *Budgeted* | *Spent* | *Date Last Spent* |
|---|---|---|---|
| **1.** 2009 T/A Native Buffers - Ramsey (SWCD) | 2,495.99 | 2,495.99 | 1/4/12 |
| **2.** 2009 Native Buffers - Ramsey (SWCD) | 9,983.95 | 9,983.95 | 1/4/12 |
| **3.** 2009 Native Buffer Landowner Match | 3,327.98 | 3,327.98 | 11/14/11 |
| **Totals:** | **15,807.92** | **15,807.92** | |

End of 2009 Native Buffers - Ramsey (SWCD) Section

This report can be found in the eLINK Report Manager under Report Type: *Fund Reports*, Reports: *All Details*