



Grant Progress Report

Multipurpose Drainage Management 2016

Grant Title: 2016 CD8 Erosion and Pollution reduction

Grant Award (\$): \$32,500.00

Grant Execution Date: 02/29/2016

Grant ID: C16-6758

Required Match (%): 25

Grant End Date: 12/31/2020

Grantee: Freeborn SWCD

Required Match (\$): \$8,125.00

Fiscal Agent:

Grant Day-to-Day Contact: Lindsey Cornell

| | Total Budgeted | Total Spent | Balance Remaining* |
|--------------|--------------------|--------------------|--------------------|
| Grant Funds | \$32,500.00 | \$32,500.00 | \$0.00 |
| Match Funds | \$12,895.38 | \$12,895.38 | \$0.00 |
| Other Funds | \$24,462.62 | \$24,462.62 | \$0.00 |
| Total | \$69,858.00 | \$69,858.00 | \$0.00 |

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

| | |
|-------------------------|---|
| Project Abstract | County Ditch #8 (CD8) has been identified as an area of high erosion by the Freeborn County Drainage Authority and the Turtle Creek Watershed district. Project entails using conservation BMPs such as water and sediment control basins, grassed waterways, and alternative tile intakes to address gully and sheet and rill erosion concerns at the headwaters of CD8. |
|-------------------------|---|

Budget Details

| Activity Name | Category | Source Type | Source Description | Budgeted | Spent | Balance Remaining | Match Fund? |
|----------------------|------------------------|-------------|--|------------|------------|-------------------|-------------|
| 2016 CD8 local funds | Agricultural Practices | Local Fund | Turtle Creek Watershed District Contribution | \$8,050.42 | \$8,050.42 | \$0.00 | Y |

| <i>Activity Name</i> | <i>Category</i> | <i>Source Type</i> | <i>Source Description</i> | <i>Budgeted</i> | <i>Spent</i> | <i>Balance Remaining</i> | <i>Match Fund?</i> |
|---|----------------------------------|---------------------|--|-----------------|--------------|--------------------------|--------------------|
| 2016 CD8 local funds | Agricultural Practices | Local Fund | Turtle Creek Watershed District & County Funds | \$6,300.50 | \$6,300.50 | \$0.00 | N |
| 2016 CD8 local funds | Agricultural Practices | Local Fund | County Fund | \$896.96 | \$896.96 | \$0.00 | Y |
| 2016 CD8 Administration | Administration/Coordination | Current State Grant | 2016 CD8 Erosion and Pollution reduction | \$1,500.00 | \$1,500.00 | \$0.00 | N |
| 2016 CD8 Agricultural BMPs | Agricultural Practices | Current State Grant | 2016 CD8 Erosion and Pollution reduction | \$25,000.00 | \$25,000.00 | \$0.00 | N |
| 2016 CD8 Agricultural BMPs | Agricultural Practices | Other Funds | 2014 - Minnesota Flood Relief Grant Phase 4 (Freeborn SWCD).. | \$1,321.87 | \$1,321.87 | \$0.00 | N |
| 2016 CD8 Agricultural BMPs | Agricultural Practices | Other Funds | 2014 - Minnesota Flood Relief Grant Phase 4 (Freeborn SWCD).. | \$768.00 | \$768.00 | \$0.00 | N |
| 2016 CD8 Agricultural BMPs | Agricultural Practices | Other Funds | 2014 - Minnesota Flood Relief Grant Phase 3B (Freeborn SWCD .. | \$13,930.25 | \$13,930.25 | \$0.00 | N |
| 2016 CD8 Technical and Engineering Assistance | Technical/Engineering Assistance | Current State Grant | 2016 CD8 Erosion and Pollution reduction | \$6,000.00 | \$6,000.00 | \$0.00 | N |
| 2016 CD8 Landowner Fund | Agricultural Practices | Landowner Fund | Landowner contribution | \$3,948.00 | \$3,948.00 | \$0.00 | Y |
| 2016 CD8 Landowner Fund | Agricultural Practices | Landowner Fund | Landowner contribution | \$1,620.00 | \$1,620.00 | \$0.00 | N |
| 2016 CD8 Landowner Fund | Agricultural Practices | Landowner Fund | Landowner contribution | \$522.00 | \$522.00 | \$0.00 | N |

Indicator Summary

| Indicator Category | Proposed Indicator | Total Value | Unit |
|--------------------|--------------------|-------------|------|
|--------------------|--------------------|-------------|------|

| Indicator Category | Final Indicator | Total Value | Unit |
|---------------------------------------|-----------------------------|-------------|---------|
| Water Pollution (Reduction Estimates) | Phosphorus (Est. Reduction) | 24.88 | Lbs/Yr |
| Water Pollution (Reduction Estimates) | Sediment (Tss) | 28.77 | Tons/Yr |
| Water Pollution (Reduction Estimates) | Soil (Est. Savings) | 38.46 | Tons/Yr |

Grant Activities

| Activity Name: 2016 CD8 Administration | | | | | | |
|---|--|------------|------------|-------------------|-----------------------|-------------|
| Activity Category: Administration/Coordination | | | | | Staff time?: Yes | |
| Description: 2016 CD8 Administration Funds will be spent by SWCD staff to complete administration of the grant. Administration includes but is not limited to completing eLINK reporting and coordination of activities necessary to complete this grant. | | | | | | |
| Budget Details | | | | | | |
| Source Type | Source Description | Budgeted | Spent | Balance Remaining | Last Transaction Date | Match Fund? |
| Current State Grant | 2016 CD8 Erosion and Pollution reduction | \$1,500.00 | \$1,500.00 | \$0.00 | 09/18/2019 | N |
| Actual Results | | | | | | |
| Results | | | | | Date Added | |
| A/C - 1 hour expended on this grant in 2016/17 of \$59.28 - Manager meeting with SWCD Board and County Ditch Inspector. | | | | | 1/27/2016 4:46:22 PM | |

Results

Date Added

A/C - 14.5 hours expended on this grant in 2018 of \$1003.69 - Manager working with landowners, County Ditch Inspector, engineers, and NRCS wetland team for certified wetland determination. Billable rate of \$69.22 per hour.

2019 A/C - 8 hours @ \$56.81 = \$454.48 for administering this grant per BWSR billable rate.

Activity Name: 2016 CD8 Agricultural BMPs

Activity Category: Agricultural Practices

Staff time?: No

Description: 2016 CD8 Agricultural BMPs

Cost share paid to landowners for the implementation of BMPs. Cost share shall not exceed 75% of eligible project costs. Installation of 4-5 WASCOBs, one grassed waterway, and one alternative tile intake are proposed.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|--|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | 2016 CD8 Erosion and Pollution reduction | \$25,000.00 | \$25,000.00 | \$0.00 | 01/09/2020 | N |
| Current State Grant | 2014 - Minnesota Flood Relief Grant Phase 4 (Freeborn SWCD).. | \$1,321.87 | \$1,321.87 | \$0.00 | 10/15/2020 | N |
| Current State Grant | 2014 - Minnesota Flood Relief Grant Phase 4 (Freeborn SWCD).. | \$768.00 | \$768.00 | \$0.00 | 10/15/2020 | N |
| Current State Grant | 2014 - Minnesota Flood Relief Grant Phase 3B (Freeborn SWCD .. | \$13,930.25 | \$13,930.25 | \$0.00 | 10/15/2020 | N |

Actual Results

Results

Date Added

1 BMP, a WASCOB was completely constructed and completed in 2019. 1 other BMP, a Grade Stabilization structure was completed in 2020. Work on that BMP consisted of grading out the structure, seeding, and mulching Also, cleaning up the rock basin and putting a hood on the PVC outlet pipe. Another BMP, a Grassed Waterway was nearly completed in 2020, but will need some touch up work in 2021 due to dry

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Results

Date Added

conditions in 2020. In 2020 support tile was installed on the waterway. These BMP's installed just upstream of County Ditch 8 will prevent nutrients and sediment from getting directly into the ditch. This project was originally assigned to CWF MDM CD8, but once construction began it became apparent there were not going to be enough funds with the CWF MDM CD8 grant alone because of the delay in getting the project completed and also because of some unforeseen damages that would need repair. This project was on our 2014 flood grant request list and since we had dollars left under these grants our board agreed that this would be the perfect funding source for this project.

Final Indicators

| <u>Indicator</u> | <u>Total Value</u> | <u>Unit</u> |
|-----------------------------|--------------------|-------------|
| Sediment (Tss) | 28.77 | Tons/Yr |
| Phosphorus (Est. Reduction) | 24.88 | Lbs/Yr |
| Soil (Est. Savings) | 38.46 | Tons/Yr |

| | |
|--|--------------------------------|
| Activity Action Name: WangsnessC_WW_FY16CWF-CD8-01 | Activity Count: 1 |
| Practice Type: 412 - Grassed Waterway and Swales | Size/Units: 1203 - Linear Feet |
| TA Provider/JAA: TSA | Lifespan: 10 Years |
| Practice Description: Proj. mostly complete. | Install Date: 12/31/2020 |
| | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|---------------------------------|----------------|
| Sediment (Tss) | Tons/Yr | 19.07 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |
| Phosphorus (Est. Reduction) | Lbs/Yr | 16.21 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |
| Soil (Est. Savings) | Tons/Yr | 19.07 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | AndersonM_410_FY16-CWF-CD8-03 | Activity Count: 1 |
| Practice Type: | 410 - Grade Stabilization Structure | Size/Units: 1 - Count |
| TA Provider/JAA: | TSA | Lifespan: 10 Years |
| Practice Description: | A grade stabilization structure was installed. There was also a cistern rock basin installed on the backside of the structure to allow the water to slow down before it enters into the grassed waterway down stream. The grade stabilization structure is approximated 190 feet long and about 10-12 feet tall. The structure prevents 1.45 tons per year of sediment, 2.89 tons per year of soil, and 1.69 pounds per year of phosphorus from entering County Ditch 8. | Install Date: 10/31/2020 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|---------------------------------|----------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 1.66 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |
| Sediment (Tss) | Tons/Yr | 1.45 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |
| Soil (Est. Savings) | Tons/Yr | 2.89 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |

| | | |
|-----------------------|--|--------------------------|
| Activity Action Name: | WangsnessR_WASCOB_FY16-CWF-CD8-02 | Activity Count: 1 |
| Practice Type: | 638 - Water and Sediment Control Basin | Size/Units: 1 - Count |
| TA Provider/JAA: | TSA | Lifespan: 10 Years |
| Practice Description: | WASCOB installed | Install Date: 11/14/2019 |
| | | Mapped: Yes |

| Indicator Name | Units | Value | Calculation Tool | Waterbody |
|-----------------------------|---------|-------|---------------------------------|----------------|
| Phosphorus (Est. Reduction) | Lbs/Yr | 7.01 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |
| Soil (Est. Savings) | Tons/Yr | 16.5 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |
| Sediment (Tss) | Tons/Yr | 8.25 | Bwsr Calc (Gully Stabilization) | County Ditch 8 |

Activity Name: 2016 CD8 Landowner Fund

Activity Category: Agricultural Practices

Staff time?: No

Description: 2016 CD8 Landowner Fund

Landowner contribution towards implementation of BMP costs. Multiple landowners.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|--------------------|---------------------------|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Landowner Fund | Landowner contribution | \$3,948.00 | \$3,948.00 | \$0.00 | 10/15/2020 | Y |
| Landowner Fund | Landowner contribution | \$1,620.00 | \$1,620.00 | \$0.00 | 10/15/2020 | N |
| Landowner Fund | Landowner contribution | \$522.00 | \$522.00 | \$0.00 | 10/15/2020 | N |

Actual Results

Results Date Added

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Activity Name: 2016 CD8 Technical and Engineering Assistance

Activity Category: Technical/Engineering Assistance

Staff time?: Yes

Description: 2016 CD8 Technical and Engineering Assistance

SWCD staff will provide technical and engineering assistance with the implementation of BMPs. Staff will assist with initial inventory and evaluation, survey, design, and construction check-out of BMPs as needed. Staff will work with landowners, contractors, and partners to accomplish tasks.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|---------------------|--|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Current State Grant | 2016 CD8 Erosion and Pollution reduction | \$6,000.00 | \$6,000.00 | \$0.00 | 09/18/2019 | N |

Actual Results

Results

Date Added

2017 T & A - 2 Tech 9.5 hours @ \$31.91, 3 Tech 15 hours @ \$30.92 and Mgr. 16 hours @ \$64.25 - as calculated using BWSR billing rates.

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Continued technical assistance on flood damage projects. Conducted survey and design on 3-4 WASCBS and one grassed waterway.

Coordinated with Ditch inspector regarding county ditch and tile.

2018 T & A - 2 Tech 2 hours @ \$40.38, 3 Tech 39.5 hours @ \$33.24 - as calculated using BWSR billing rates. Continued technical assistance on flood damage projects.

Additional survey on site was done in 2018. There were also multiple meetings with the landowners, which led to some slight changes in the design of a couple of the projects. The final plans are 90% completed. We are currently working with the landowners to get the final designs completed so they can get a contractor lined up for 2019. There is 1 waterway, 1 grade stabilization structure, 1 basin, and 1 basin/terrace project planned.

2019 Update. Staff worked diligently to coordinate this project with landowners, engineer, contractor, Turtle Creek WD, and finding other grant funds to make this happen. Project is now mostly complete. Needs some support tile, grading and seeding in 2020. All T & A has been expended for this grant. 39.5 hours @ \$44.62 = \$1,762.49 and 11 hours @ 492.47 per BWSR billable rate.

Activity Name: 2016 CD8 local funds

Activity Category: Agricultural Practices

Staff time?: No

Description: 2016 CD8 local funds

Turtle Creek Watershed District contribution toward BMP installation.

Budget Details

| <u>Source Type</u> | <u>Source Description</u> | <u>Budgeted</u> | <u>Spent</u> | <u>Balance Remaining</u> | <u>Last Transaction Date</u> | <u>Match Fund?</u> |
|--------------------|--|-----------------|--------------|--------------------------|------------------------------|--------------------|
| Local Fund | Turtle Creek Watershed District Contribution | \$8,050.42 | \$8,050.42 | \$0.00 | 10/15/2020 | Y |
| Local Fund | Turtle Creek Watershed District & County Funds | \$6,300.50 | \$6,300.50 | \$0.00 | 10/15/2020 | N |
| Local Fund | County Fund | \$896.96 | \$896.96 | \$0.00 | 10/15/2020 | Y |

Actual Results

Results Date Added

Turtle Creek has paid on the 1 project that is finished and will pay on the other 2 when completed in 2020.

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Activity Name: Administration

Activity Category: Administration/Coordination

Staff time?: No

Description: reporting, time tracking, billing and coordination associated with this grant.

Actual Results

Results Date Added

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Activity Name: AndersonM_410_FY16-CWF-CD8-03

Activity Category: Agricultural Practices

Staff time?: No

Description: Implementation of WASCOBs, grassed waterways, alternative tile intakes, and supporting practices.

Actual Results

Results **Date Added**

The grade stabilization structure is near completion. The structure still needs to be shaped up, seeded, and anti vortex hood installed on the pipe. These BMP's installed just upstream of County Ditch 8 will prevent nutrients and sediment from getting directly into the ditch. 1/21/2020 10:50:07 AM