



# Grant All-Detail Report

## Multipurpose Drainage Management 2017

**Grant Title** - Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance

**Grant ID** - C17-3714

**Organization** - Greater Blue Earth River Basin Alliance

<b>Original Awarded Amount</b>	<b>\$301,200.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$75,300.00	<b>Original Grant End Date</b>	12/31/2019
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Kay Gross
<b>Current Awarded Amount</b>	<b>\$301,200.00</b>	<b>Current End Date</b>	4/30/2022

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$301,200.00	\$201,178.32	\$100,021.68
Total Match Amount	\$148,801.00	\$61,256.65	\$87,544.35
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$450,001.00</b>	<b>\$262,434.97</b>	<b>\$187,566.03</b>

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

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Administration and Coordination	Administration /Coordination	Current State Grant	Multipurpose Drainage Management - Greater Blue Earth River ..	\$30,000.00	\$31,791.55	12/31/2021	N
Agriculture Structural Practices	Agricultural Practices	Current State Grant	Multipurpose Drainage Management - Greater Blue Earth River ..	\$86,875.00	\$77,497.50	12/18/2020	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Agriculture Structural Practices	Agricultural Practices	Federal Funds	Federal Funding Sources	\$11,662.00			Y
Agriculture Structural Practices	Agricultural Practices	Landowner Fund	Landowner Cash Contribution	\$11,662.00	\$18,192.97	12/18/2020	Y
Agriculture Structural Practices	Agricultural Practices	Local Fund	Local Funding Sources	\$11,662.00	\$7,850.00	1/12/2018	Y
Conservation Drainage Practices	Conservation Drainage	Current State Grant	Multipurpose Drainage Management - Greater Blue Earth River ..	\$49,945.50	\$28,047.77	11/20/2020	N
Conservation Drainage Practices	Conservation Drainage	Federal Funds	Federal Funding Sources	\$13,440.00			Y
Conservation Drainage Practices	Conservation Drainage	Landowner Fund	Landowner Cash Contribution	\$13,440.00	\$9,349.25	11/20/2020	Y
Conservation Drainage Practices	Conservation Drainage	Local Fund	Local Funding Sources	\$13,440.00			Y
Planning and Assessment Practices	Planning and Assessment	Current State Grant	Multipurpose Drainage Management - Greater Blue Earth River ..	\$3,500.00	\$1,575.00	10/12/2018	N
Planning and Assessment Practices	Planning and Assessment	Landowner Fund	Landowner Cash Contribution	\$2,000.00	\$525.00	10/12/2018	Y
Technical and Engineering	Technical/Engineering Assistance	Current State Grant	Multipurpose Drainage Management - Greater Blue Earth River ..	\$30,879.50	\$12,266.50	12/18/2020	N
Wetland Restoration/Creation Practice	Wetland Restoration/Creation	Current State Grant	Multipurpose Drainage Management - Greater Blue Earth River ..	\$100,000.00	\$50,000.00	11/20/2020	N
Wetland Restoration/Creation Practice	Wetland Restoration/Creation	Landowner Fund	Landowner Cash Contribution	\$71,495.00	\$25,339.43	11/20/2020	Y

## Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control Basin	14	14	14 COUNT	14 COUNT
410 - Grade Stabilization Structure	2		1 COUNT	COUNT
410 - Grade Stabilization Structure	10	10	15 COUNT	10 COUNT
605 - Denitrifying Bioreactor	1	1	1 COUNT	1 COUNT
810M - Storage and Treatment Wetland Restoration	1		3 AC	AC
638 - Water and Sediment Control Basin	16	16	16 COUNT	16 COUNT
810M - Storage and Treatment Wetland Restoration	1	1	5.52 AC	5.52 AC

## Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Grass Waterways - Anticipated</b>	PHOSPHORUS (EST. REDUCTION)	10 LBS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Water and Sediment Control Basins - Anticipated</b>	PHOSPHORUS (EST. REDUCTION)	25 LBS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Open Tile Inlet Replacements - Anticipated</b>	PHOSPHORUS (EST. REDUCTION)	20 LBS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Storage and Treatment Wetland Restoration - Anticipated</b>	PHOSPHORUS (EST. REDUCTION)	2 LBS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Grade Stabilization Structures - Anticipated</b>	PHOSPHORUS (EST. REDUCTION)	12 LBS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Bioreactors - Anticipated</b>	PHOSPHORUS (EST. REDUCTION)	15 LBS/YR	10 County Drainage Ditch Authority Boundaries	Literature Value	
<b>Storage and Treatment Wetland Restoration - Anticipated</b>	NITROGEN	100 LBS/YR	10 County Drainage Ditch Authority Boundaries	Literature Value	
<b>Saturated Buffers - Anticipated</b>	NITROGEN	240 LBS/YR	10 County Drainage Ditch Authority Boundaries	Literature Value	
<b>Bioreactors - Anticipated</b>	NITROGEN	1480 LBS/YR	10 County Drainage Ditch Authority Boundaries	Literature Value	
<b>Grass Waterways - Anticipated</b>	SEDIMENT (TSS)	10 TONS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Water and Sediment Control Basins - Anticipated</b>	SEDIMENT (TSS)	25 TONS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Open Tile Inlet Replacements - Anticipated</b>	SEDIMENT (TSS)	20 TONS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Storage and Treatment Wetland Restoration - Anticipated</b>	SEDIMENT (TSS)	2 TONS/YR	10 County Drainage Ditch Authority Boundaries	BWSR CALC (GULLY STABILIZATION)	
<b>Grade Stabilization</b>	SEDIMENT (TSS)	12 TONS/YR	10 County	BWSR CALC (GULLY	

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Structures - Anticipated</b>			Drainage Ditch Authority Boundaries	STABILIZATION)	

**Final Indicators Summary**

Indicator Name	Total Value	Unit
<b>SEDIMENT (TSS)</b>	318.74	TONS/YR
<b>SOIL (EST. SAVINGS)</b>	355.77	TONS/YR
<b>NITROGEN</b>	1,353.00	LBS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	863.54	LBS/YR

**Grant Activity**

**Grant Activity - Administration and Coordination**

**Description**

Administration and Coordination of this project will be provided by the GBERBA Coordinators (Administrative, Technical and Financial). Administrative Coordinator will administer the FY2017 CWF Grant with duties to include E-link reporting, website updating and reporting documents as required by BWSR. Financial reporting will be completed by the Financial Coordinator using QuickBooks. Technical Coordinator will oversee the pollution reduction estimates needed for associated projects and help with technical assistance as requested. The Technical Coordinator will also work to develop a grant policy by which projects will be targeted and prioritized for funding.

GBERBA staff are contracted employees so the grant will reflect the contracted hourly rates for the Coordinators which in 2017 is \$30.00 per hour.

TOTAL GRANT FUNDING: \$30,000.00

TOTAL MATCH FUNDING: \$0.00





Start Date

3-Apr-17

End Date

Has Rates and Hours?

Yes

Actual Results

April - December 2017

Total Admin Hours - 129.0

GBERBA contracted hourly rate - \$30.00/hour

Total 2017 Admin - \$3,870.00

January - December 2018

GBERBA Total Administration Hours - 183.75

Administrative & Technical Coordinators

169.5 hrs @ \$35.00/hr = \$5,932.50

Financial Coordinator1

11.25 hrs @ \$30.00/hr = \$337.50

Financial Coordinator2

3 hrs @ \$47.00/hr = \$141.00

TOTAL: \$6,411.00

January - December 2019

GBERBA Total Administration Hours – 174.75

Administrative & Technical Coordinators

174.75 hrs @ \$25.00/hr = \$4,368.75

Watonwan Watershed Resource Specialist

51 hrs @ \$30.00/hr = \$1,530.00

TOTAL: \$5,898.75

GBERBA requested and was granted an extension which was completed and executed on 11-13-2019 to extend the grant end date to 12-31-2020. (Letters Attached).

January - June 2020:

GBERBA Admin & Technical Hours: 118.25

Administrator: 43.25 hours @ \$60.28 = \$2,607.11

Technical: 51 hours @ \$62.58 = \$3,191.58

Financial: 9 hours @ \$38.15 = \$343.35

Watonwan Resource Specialist: 15 hours @ \$32.69 = \$490.36

Totals dispersed for Admin & Technical: \$6,632.40

July- Nov 2020:

Technical: 54.5 hours @ 71.33 = \$3,887.50 (Rounding)

Financial: 14 hours @ 38.15 = \$534.10

Administrator: 28.5 hours @ 60.28 = \$1,717.98

Totals dispersed for Admin & Technical:

\$6,139.58

12-02-2020:

GBERBA requested and was granted an extension which was completed and executed on 12-02-2020 to extend the grant end date to 4-30-2021. (Letter Attached).

December 2020:

Administrator: 23.5 hours @ 60.28 = \$4,416.58

Technical: 13 hours @ 71.33 = \$927.29

Financial: 13 hours @ 38.15 = \$495.95

Total: \$2,839.82

Exercised ability to move 10% and moved \$10,000 to Administration/Coordination

\$30,000 + \$10,000 = \$40,000

3-18-2021:

GBERBA requested and was granted an extension which was completed and executed on 4-30-2021 to extend the grant end date to 4-30-2022. (Letter Attached).



## Description

Funds will be used to implement WASCOBs, grassed waterways, and grade stabilization structures adjacent to, on, or within watersheds of priority 103E public drainage systems within the whole 10 GBERBA-member County extent (excluding areas within a watershed district). Public Drainage Systems must have a documented sediment and/or water quality concern. Documented concerns include, but are not limited to, an analysis, study, strategy, plan, engineer's report, engineer's preliminary survey report for a drainage system improvement, or other water quality analysis.

Two examples of 103E systems with documented concerns:

-Faribault County Ditch #7. The CD7 Improvement Project Plan has identified 24 drainage manipulation practices that could be implemented to benefit water quality.

-The Martin County Multipurpose Drainage Management Plan (2014) call for drainage management on four priority 103E drainage systems and includes descriptions of appropriate drainage practices and identifies specific targeted sites where these practices would be the most effective.

Anticipated number of practices to be installed:

-12 Grade Stabilization Structures

-2 Grassed Waterways

-5 WASCOBs

TOTAL GRANT FUNDS: \$105,000.00

Grant funds will be disbursed at a maximum cost-share rate not to exceed 100%.

TOTAL MATCH FUNDS: \$34,986.00

Matching funds will be contributed from various sources including EQIP,

Federal Section 319 grant funds, landowner cash, local funds, and local drainage system funds.

Federal Funding: \$11,662.00

Local Funding: \$11,662.00

Landowner Funding: \$11,662.00



Start Date

3-Apr-17

End Date



Has Rates and Hours?

No

## Actual Results

### APRIL - DECEMBER 2017

No Activity.

Encumbered funds for Blue Earth County Drainage Authority, contract #CWF-MDM-17-07-01: 15 alternative side inlet structures. Estimated Cost \$43,500, encumbered \$32,625.00. County Ditch 56 was a focus of a targeted ditch inventory project and outlets to Lake Crystal, an impaired water of the State.

### JANUARY - DECEMBER 2018

CWF-MDM-17-07-01 Blue Earth Drainage Authority project complete. ISG certified 10 alternative side inlet structures complete; 8 containing additional rip rap due to soil texture and large watershed size.

TOTAL FINAL COST: \$31,400.00

GBERBA COST-SHARE: \$23,550.00

CD56 LOCAL FUNDS: \$7,850.00

### JANUARY-DECEMBER 2019

Encumbered two projects in Blue Earth Co. for Blue Earth Co. Drainage Authority.

CWF-MDM-17-07-02 for Blue Earth Co. Drainage Authority co/o Craig Austinson (CD83). Cost estimate of \$33,500.00. GBERBA encumbered \$25,125.00.

CWF-MDM-17-07-03 for Blue Earth Co. Drainage Authority co/o Craig Austinson (CD26). Cost estimate of \$50,200.00. GBERBA encumbered \$37,650.00.

### JANUARY-DECEMBER 2020

February GBERBA approved the cancellation of Blue Earth Co. contracts CWF-MDM-17-07-03 and CWF-MDM-17-07-02. GBERBA reapproved the projects as CWF-MDM-17-07-04 and CWF-MDM-17-07-05 respectively.

Contract #CWF-MDM-17-07-04 for Blue Earth Co. Drainage Authority co/o Craig Austinson (CD26). Project is to install Alternative Side Inlets or Alternative Side Inlets with riprap overflow on CD 26 at a cost estimate of \$50,200.00. GBERBA encumbered \$37,650.00.

Contract #CWF-MDM-17-07-05 for Blue Earth Co. Drainage Authority co/o Craig Austinson (CD83). Project is to install Alternative Side Inlets or Alternative Side Inlets with riprap overflow on CD 83 at a cost estimate of \$33,500.00. GBERBA encumbered \$25,125.00.

APRIL 2020:  
 Work Plan Revision - Decreasing Funding and moving to Wetland Restoration/Creation Practice (\$18,125.00).  
 TOTAL AGRICULTURE STRUCTURAL PRACTICES:  
 \$86,875.00

**Activity Action - CWF-MDM-17-07-01 Blue Earth DA**

<b>Practice</b>	410 - Grade Stabilization Structure	<b>Count of Activities</b>	10
<b>Description</b>	Repair and install alternative side inlets on CD 56 in Blue Earth County, Garden City and Lincoln Townships. 8 side inlets were installed with additional rip rap due to coarse soils and large watershed size.		
<b>Proposed Size / Units</b>	15.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	10.00 COUNT	<b>Installed Date</b>	12-Jan-18
<b>Mapped Activities</b>	10 Point(s)	<b>Technical Assistance Provider</b>	Private Consultant

**Final Indicator for CWF-MDM-17-07-01 Blue Earth DA**

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	249.5
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	28045		

**Final Indicator for CWF-MDM-17-07-01 Blue Earth DA**

<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	249.5
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	28045		

**Final Indicator for CWF-MDM-17-07-01 Blue Earth DA**

<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	763.5
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	28045		

**Activity Action - CWF-MDM-17-07-02 Blue Earth DA**

<b>Practice</b>	410 - Grade Stabilization Structure	<b>Count of Activities</b>	1
<b>Description</b>	Cancelled 2/14/20		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	COUNT	<b>Installed Date</b>	
<b>Mapped Activities</b>	No	<b>Technical Assistance Provider</b>	

Activity Action - CWF-MDM-17-07-03 Blue Earth DA			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Cancelled 2/14/20		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Mapped Activities	No	Technical Assistance Provider	

Activity Action - CWF-MDM 17-7-04 Blue Earth Da CD #26			
Practice	638 - Water and Sediment Control Basin	Count of Activities	16
Description	Landowner has requested cost share assistance to install multiple WASCObS on CD #26		
Proposed Size / Units	16.00 COUNT	Lifespan	10 Years
Actual Size/Units	16.00 COUNT	Installed Date	18-Dec-20
Mapped Activities	16 Point(s)	Technical Assistance Provider	Private Consultant

**Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26**

Indicator Name	SOIL (EST. SAVINGS)	Value	2.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

**Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26**

Indicator Name	SEDIMENT (TSS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

**Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26**

Indicator Name	SOIL (EST. SAVINGS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

**Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26**

Indicator Name	SOIL (EST. SAVINGS)	Value	.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

**Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26**

Indicator Name	SEDIMENT (TSS)	Value	.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	1.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	1.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		



Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SEDIMENT (TSS)	Value	2.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	SOIL (EST. SAVINGS)	Value	.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		
Final Indicator for CWF-MDM 17-7-04 Blue Earth Da CD #26			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD #26		

Activity Action - CWF-MDM 17-07-05 Blue Earth DA CD83			
Practice	638 - Water and Sediment Control Basin	Count of Activities	14
Description	Landowner has requested cost share assistance to install 14 Alternative side inlets on CD83		
Proposed Size / Units	14.00 COUNT	Lifespan	10 Years
Actual Size/Units	14.00 COUNT	Installed Date	18-Dec-20
Mapped Activities	14 Point(s)	Technical Assistance Provider	Private Consultant

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	SOIL (EST. SAVINGS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	SEDIMENT (TSS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	SEDIMENT (TSS)	Value	.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

**Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83**

Indicator Name	SEDIMENT (TSS)	Value	.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	4.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	4.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	6.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	1.2
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	.7
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	.7
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	1.4
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	.7
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	1.4
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	1.4
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	2.4
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		
<b>Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83</b>			
<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	1.9
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth CD83		

Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	1.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	2.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	1.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		

Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	1.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SOIL (EST. SAVINGS)	Value	4.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		
Final Indicator for CWF-MDM 17-07-05 Blue Earth DA CD83			
Indicator Name	SEDIMENT (TSS)	Value	4.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	Other
Waterbody	Blue Earth CD83		



## Description

Funds will be used to replace open tile intakes, and install saturated buffers, denitrifying bioreactors, and structures for water control adjacent to, on , or within watersheds of priority 103E public drainage systems within the whole 10 GBERBA-member County extent (excluding areas within a watershed district). Public Drainage Systems must have a documented sediment or water quality concern. Documented concerns include, but are not limited to, an analysis, study, strategy, plan, engineer's report, engineer's preliminary survey report for a drainage system improvement, or other water quality analysis.

Two examples of 103E systems with documented concerns:

-Faribault County Ditch #7. The CD7 Improvement Project Plan has identified 24 drainage manipulation practices that could be implemented to benefit water quality.

-The Martin County Multipurpose Drainage Management Plan (2014) call for drainage management on four priority 103E drainage systems and includes descriptions of appropriate drainage practices and identifies specific targeted sites where these practices would be the most effective.

Anticipated number of practices to be installed:

-20 Alternative Tile Intakes

-2 Saturated Buffers

-2 Structures for Water Control

-10 Denitrifying Bioreactors

TOTAL GRANT FUNDS: \$67,500.00

Grant funds will be disbursed at a maximum cost-share rate not to exceed 100%.

TOTAL MATCH FUNDS: \$40,320.00

Matching funds will be contributed from various sources including EQIP, Federal Section 319 grant funds, landowner fund, local funds, and local drainage system funds.

Federal Funds: \$13,440.00

Landowner Funds: \$13,440.00

Local Funds: \$13,440.00

July 2020: \$14,320.50 was moved from T&E to conservation drainage practices.





Start Date

3-Apr-17

End Date

Has Rates and Hours?

No

Actual Results

APRIL - DECEMBER 2017

No funds expended.

Encumbered one project in Waseca County for Byron Properties of New Richland. Project is to install a denitrifying bioreactor on CD 8 at a cost estimate of \$43,800.00. GBERBA encumbered \$32,850.00. The Le Sueur River Watershed WRAPS document highlights identifies denitrifying bioreactors as a strategy to reduce nitrate loading to the Cobb River, of which CD 8 contributes.

January - December 2018

Cost - \$48,598.00 Cost-Share \$36,448.50

Due to the complexity of the site and practice, the Byron Properties Bioreactor contract has been extended until 12/1/2019. The estimated project cost and cost-share have increased:

Total Estimated cost: \$47,500.00

Total C/S Encumbered: \$35,625.00

January - December 2019

10/11/19

Engineer has confirmed that the Waseca County Bioreactor project is not complete with needed work around the control structure. A partial payment of \$27,439.64 was made by GBERBA on 10/11/19 for the project with landowner contribution of \$9,146.55. The remaining costs will be paid out by GBERBA once project is completed. In addition, GBERBA has approved an Amendment to extend the expiration date to 12/31/2020.

APRIL 2020:

Work Plan Revision - Decreasing Funding and moving to Wetland Restoration/Creation Practice (\$31,875.00).

TOTAL CONSERVATION DRAINAGE PRACTICES:

\$35,625.00

NOVEMBER 2020:

Completion of the Byron Properties Project #CWF-MDM-17-81-01 final cost of \$810.83 with cost-share of \$608.13.

Technical approval by Ryan Jones on 11-6-2020.

Total Cost of Project - \$37,397.02

Total Cost-Share - \$28,047.77

Total In-Kind - \$9,349.25

Activity Action - CWF-MDM-17-81-01 Byron Properties

<b>Practice</b>	605 - Denitrifying Bioreactor	<b>Count of Activities</b>	1
<b>Description</b>	Denitrifying Bioreactor on Waseca County CD8, Byron Twp Section 29. Engineer has confirmed that the project is not complete with needed work around the control structure. A partial payment of \$27,439.64 was made by GBERBA on 10/11/19 for the project. The remaining costs will be paid out by GBERBA once project is completed. In addition, GBERBA has approved of an Amendment to extend the expiration date to 12/31/2020.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	20-Nov-20
<b>Mapped Activities</b>	1 Point(s)	<b>Technical Assistance Provider</b>	TSA

Final Indicator for CWF-MDM-17-81-01 Byron Properties

<b>Indicator Name</b>	NITROGEN	<b>Value</b>	1353
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Blue Earth		

**Grant Activity - Planning and Assessment Practices**

<p><b>Description</b></p>	<p>Funds will be used to complete NRCS Conservation Activity Plan (CAP) 130 Drainage Water Management Plans for land adjacent to, on, or within watersheds of priority 103E public drainage systems within the whole 10 GBERBA-member County extent (excluding areas within a watershed district). Public Drainage Systems must have a documented sediment or water quality concern. Documented concerns include, but are not limited to, an analysis, study, strategy, plan, engineer's report, engineer's preliminary survey report for a drainage system improvement, or other water quality analysis.</p> <p>Two examples of 103E systems with documented concerns: -Faribault County Ditch #7. The CD7 Improvement Project Plan has identified 24 drainage manipulation practices that could be implemented to benefit water quality. -The Martin County Multipurpose Drainage Management Plan (2014) call for drainage management on four priority 103E drainage systems and includes descriptions of appropriate drainage practices and identifies specific targeted sites where these practices would be the most effective.</p> <p>Anticipated number of practices to be installed: -2 Conservation Activity Plan (CAP) 130 Drainage Water Management Plans .</p> <p>TOTAL GRANT FUNDS: \$3500 Grant funds will be disbursed at a maximum cost share not to exceed 100%.</p> <p>TOTAL MATCH FUNDS: \$2000 Matching funds will be contributed from local drainage system funds. Landowner Funds: \$2000</p>	
<p><b>Category</b></p>	<p>PLANNING AND ASSESSMENT</p>	
<p><b>Start Date</b></p>	<p>3-Apr-17</p>	<p><b>End Date</b></p>
<p><b>Has Rates and Hours?</b></p>	<p>No</p>	
<p><b>Actual Results</b></p>	<p>January – December 2018. Approved and completed a CAP 130 Plan G&amp;S Drainage &amp; Excavating – Faribault County. Cost - \$2100 Cost-Share \$1575 Match \$525.00 paid by G&amp;S Drainage &amp; Excavating CAP130 plan completed by TSP Michael Lehmann, certified CAP130 planner, verified by GBERBA staff 2/22/2019 on NRCS TSP website</p>	







**Description**

Engineering assistance for this grant could be completed by several entities and areas as follows:  
County Drainage Authority Staff, Private Engineering Firms, Technical Service Area Staff, SWCD Staff and other qualified partners.

The GBERBA Technical Coordinator will be working with participating Drainage Authorities to ensure qualified technical staff are utilized throughout the project.

TOTAL GRANT FUNDING: \$45,200.00

GBERBA budgeted additional 20% of project funds for technical and engineering assistance.

TOTAL MATCH FUNDING: \$0.00

July 2020: \$14,320.50 was moved from T&E and was added to the budget for conservation drainage practices.

TOTAL GRANT FUNDING: \$30,879.50

Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	3-Apr-17	End Date
Has Rates and Hours?	No	
Actual Results	<p>APRIL - DECEMBER 2017</p> <p>No funds expended.</p> <p>Encumbered T/E funds for two projects:</p> <p>CWF-MDM-17-07-01 Blue Earth Drainage Authority- CD56: \$6,525.00  CWF-MDM-17-81-01 Byron Properties- Waseca CD8: \$6,570.00</p> <p>June 2020 T&amp;E Spent:  \$2,617.00 T&amp;E on CWF-MDM-17-07-01 Blue Earth DA CD56</p> <p>T &amp; E Encumbered on multiple Projects:  \$200.00 CWF-MDM-17-81-01 Byron Properties  \$4,146.50 CWF-MDM-17-07-05 Blue Earth  \$6,146.00 CWF-MDM-17-07-04 Blue Earth  \$17,500.00 CWF-MDM-17-81-02 Waseca Co.  Total Encumbered: \$28,262.50  Balance of Technical &amp; Engineering Funds \$14,320.50 moved to projects and Administration and Coordination.</p> <p>December 2020:  \$3,962.25 T&amp;E on CWF-MDM-17-07-05 Blue Earth DA CD #83  \$5,687.25 T&amp;E on CWF-MDM-17-07-04 Blue Earth DA CD#26</p>	



## Description

Funds will be used to install one storage & treatment wetlands adjacent to, on , or within watersheds of priority 103E public drainage systems within the whole 10 GBERBA-member County extent (excluding areas within a watershed district). Public Drainage Systems must have a documented sediment or water quality concern. Documented concerns include, but are not limited to, an analysis, study, strategy, plan, engineer's report, engineer's preliminary survey report for a drainage system improvement, or other water quality analysis.

Two examples of 103E systems with documented concerns: -Faribault County Ditch #7. The CD7 Improvement Project Plan has identified 24 drainage manipulation practices that could be implemented to benefit water quality. -The Martin County Multipurpose Drainage Management Plan (2014) call for drainage management on four priority 103E drainage systems and includes descriptions of appropriate drainage practices and identifies specific targeted sites where these practices would be the most effective.

Anticipated number of practices to be installed:

-1 Storage & Treatment Wetland.

TOTAL GRANT FUNDS: \$100,000

Grant funds will be disbursed at a maximum cost share not to exceed 100%.

TOTAL MATCH FUNDS: \$25,195

Matching funds will be contributed from local drainage system funds.

Local Funds: \$89,895



Start Date

3-Apr-17

End Date

Has Rates and Hours?

No

## Actual Results

January – December 2018.

Approved a Storage Wetland through the Le Sueur County Drainage Authority. The project has been delayed due to lack of proper easement language and delays with the AG's office. The project will move forward once the easement language is satisfied.

Original Cost: \$48,598.

Amended Cost: \$75,195, amended Cost Share \$50,000.

Jan - December 2019.

Approved a Storage Wetland through the Waseca County Drainage Authority.

Total Projected Cost: \$96,300.00

Cost-Share: \$50,000.00

12/20/19 GBERBA approves Amendment to change project expiration date to 12/31/20.

12/20/19

GBERBA approves time extension for Le Sueur County Storage Wetland Project. New expiration date 12/31/2020.

Jan - December 2020.

APRIL 2020:

Work Plan Revision - Increasing Funding and moving from Ag Structural Practices (\$18,125) and Conservation Drainage Practices (\$31,875) to Wetland Restoration/Creation Practice (\$50,000).

TOTAL WETLAND RESTORATION/CREATION PRACTICES: \$100,000.00

October 2020:

Perpetual Conservation Easement for Drainage Management and Flowage was recorded on 10-19-20 for \$20,671.43 with the Le Sueur County and Judicial Ditch 63 drainage system.

12-18-2020:

Waseca Co D. A. CWF-MDM-17-81-02 - 2nd Amendment approved extending the install date from 12-31-2020 to 4-30-2021.

Reconciliation Corrective Action 12-31-2020

Completed - 4-28-2021

Corrected Voucher with construction costs and perpetual easement costs included in total cost of the project.



Total Cost - \$54,668.00 + \$20,671.43 = \$75,339.43  
 C-S Payment = \$50,000.00 In-Kind = \$25,339.43

4-28-2021:

Waseca Co D.A. CWF-MDM-17-81-02:

Approved 3rd Amendment to extend the install by date from 4-30-2021 to 4-30-2022.

Activity Action - CWF-MDM-17-40-01 Le Sueur Co Drainage Authority			
<b>Practice</b>	810M - Storage and Treatment Wetland Restoration	<b>Count of Activities</b>	1
<b>Description</b>	One storage & treatment wetland will be installed.		
<b>Proposed Size / Units</b>	5.52 AC	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	5.52 AC	<b>Installed Date</b>	20-Nov-20
<b>Mapped Activities</b>	1 Polygon(s)	<b>Technical Assistance Provider</b>	TSA

Final Indicator for CWF-MDM-17-40-01 Le Sueur Co Drainage Authority

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	19.94
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Le Sueur		

Final Indicator for CWF-MDM-17-40-01 Le Sueur Co Drainage Authority

<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	19.94
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Le Sueur		

Final Indicator for CWF-MDM-17-40-01 Le Sueur Co Drainage Authority

<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	56.97
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	Other
<b>Waterbody</b>	Le Sueur		

Activity Action - CWF-MDM-17-81-02 Waseca Co Drainage Authority			
Practice	810M - Storage and Treatment Wetland Restoration	Count of Activities	1
Description			
Proposed Size / Units	3.00 AC	Lifespan	10 Years
Actual Size/Units	AC	Installed Date	
Mapped Activities	No	Technical Assistance Provider	Private Consultant

### Grant Attachments

Document Name	Document Type	Description
<b>2017 Competitive Grant</b>	Grant Agreement	2017 Competitive Grant - Greater Blue Earth River Basin Alliance
<b>2017 Competitive Grant Amendment EXECUTED</b>	Grant Agreement Amendment	
<b>2017 Competitive Grant amendment EXECUTED</b>	Grant Agreement Amendment	
<b>2017 Competitive Grant amendment EXECUTED</b>	Grant Agreement Amendment	
<b>2017 Competitive Grant executed</b>	Grant Agreement	2017 Competitive Grant - Greater Blue Earth River Basin Alliance
<b>Additional Information - Extension Request Letter</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/29/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 04/21/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/02/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/28/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/16/2018
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/20/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/29/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/22/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/22/2019
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/22/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/17/2020

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 05/12/2021
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 08/03/2020
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/15/2020
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 08/05/2016
<b>Application Image</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Budget Worksheet</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>C17-3714 Reconciliation A Checklist</b>	Journal	Journal Dated - 04/26/2021
<b>Corrective Action Plan</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Disbursement Journal - 12-31-2019</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Disbursement Journal - Corrective Action - 5-3-2021 work dated 12-31-2020</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Disbursement Journals</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Easement JD63</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Expenditures Report Attached for Reconciliation</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Extension Request 3</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>FY17 MDM Grant Agreement Amendment</b>	Grant Agreement Amendment	
<b>Finanical Report - Updated - Non-Compliance - 5-3-2021</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>First Extension Request Letter</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>GBERBA Response to BWSR for Corrective Actions</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance

Document Name	Document Type	Description
<b>Grant - Work Plan Revision Request - 4-2020</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>MDM 2017 Financial Report</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Noncompliance letter</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance
<b>Requested Report Changes/Details</b>	Journal	Journal Dated - 12/22/2020
<b>Unexecuted Grant Agreement (3)</b>	Grant Agreement Amendment	
<b>Unexecuted Grant Amendment (Extension 2)</b>	Grant Agreement Amendment	
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 03/08/2017
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 12/14/2016
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 04/21/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 07/15/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 04/24/2020
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 05/16/2019
<b>Work Plan Revision Request</b>	Journal	Journal Dated - 04/21/2020
<b>grantmap_16750_2016-07-22_05-45-30-AM.jpg</b>	Grant	Multipurpose Drainage Management - Greater Blue Earth River Basin Alliance