Grant Progress Report

Disaster Relief 2016

Grant Title: 2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)

Grant ID: P16-1736

Grantee: Freeborn SWCD

Fiscal Agent:

Grant Day-to-Day Contact: Lindsey Cornell

Grant Award ($): $42,240.00

Required Match (%): 0

Required Match ($): $0.00

Grant Execution Date: 09/21/2015

Grant End Date: 12/31/2020

	Total Budgeted	**Total Spent**	Balance Remaining*
Grant Funds	$30,105.63	**$30,105.63**	$12,134.37
Match Funds	$7,852.95	**$7,852.95**	$0.00
Other Funds	$0.00	**$0.00**	$0.00
Total	$37,958.58	**$37,958.58**	$12,134.37

***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	*Category*	*Source Type*	*Source Description*	*Budgeted*	*Spent*	*Balance Remaining*	*Match Fund?*
AzizyH_412_DRAP2-16-04	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$5,070.00	$5,070.00	$0.00	N
WayneJ_WASCOB_DRAP2-16-02	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$3,825.00	$3,825.00	$0.00	N
StadheimR_412_DRAP2-16-	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant	$9,560.63	$9,560.63	$0.00	N

Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Balance Remaining	Match Fund?
03			Phase 2 (Freeborn SWCD)				
AusenD_WASCOB_DRAP2-16-01	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$3,202.00	$3,202.00	$0.00	N
T & A	Technical/Engineering Assistance	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$8,448.00	$8,448.00	$0.00	N
AzizyH_412_DRAP2-16-04	Agricultural Practices	Landowner Fund	Landower contribution	$1,786.20	$1,786.20	$0.00	Y
WayneJ_WASCOB_DRAP2-16-02	Agricultural Practices	Landowner Fund	Landowner contribution	$1,812.13	$1,812.13	$0.00	Y
StadheimR_412_DRAP2-16-03	Agricultural Practices	Landowner Fund	Landowner Contribution	$3,186.87	$3,186.87	$0.00	Y
AusenD_WASCOB_DRAP2-16-01	Agricultural Practices	Landowner Fund	Landowner contribution	$1,067.75	$1,067.75	$0.00	Y

Indicator Category	Proposed Indicator	Total Value	Unit

Indicator Category	Final Indicator	Total Value	Unit
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	0.56	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	0.49	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	2.63	Tons/Yr

Indicator Summary

Indicator Category	*Final Indicator*	*Total Value*	*Unit*
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	2.53	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	2.53	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	8.5	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	12.77	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	15.02	Tons/Yr
Water Pollution (Reduction Estimates)	Soil (Est. Savings)	51.33	Tons/Yr
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	39.79	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	46.82	Tons/Yr
Water Pollution (Reduction	Soil (Est. Savings)	133.76	Tons/Yr

Indicator Category	Final Indicator	Total Value	Unit
Estimates)			

Grant Activities

Activity Name: AusenD_WASCOB_DRAP2-16-01

Activity Category: Agricultural Practices | **Staff time?:** No

Description: AusenD_WASCOB_DRAP2-16-01
One 638 water and sediment control basin and support tile.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Landowner Fund	Landowner contribution	$1,067.75	$1,067.75	$0.00	05/17/2017	Y
Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$3,202.00	$3,202.00	$0.00	05/18/2017	N

Actual Results

Results	*Date Added*
Installed tile with orifice plate and constructed 500' of basin. Basin was seeded and mulched. Annual reduction of 0.5 tons sediment delivery to tributary to Cobb Creek, 0.6 pound of phosphorus, and 2.6 tons of soil loss from cooperators land. Potential 0.4 acre/feet of temporary water storage.	1/21/2016 9:13:14 AM

Final Indicators

Indicator	Total Value	Unit
Phosphorus (Est. Reduction)	0.56	Lbs/Yr
Soil (Est. Savings)	2.63	Tons/Yr
Sediment (Tss)	0.49	Tons/Yr

Activity Action Name:	AusenD_WASCOB_DRAP2-16-01	Activity Count: 1
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:		Lifespan: 10 Years
Practice Description:		Install Date: 05/18/2017
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	0.56	Bwsr Calc (Gully Stabilization)	tributary to Cobb Creek
Sediment (Tss)	Tons/Yr	0.49	Bwsr Calc (Gully Stabilization)	Tributary to Cobb Creek
Soil (Est. Savings)	Tons/Yr	2.63	Bwsr Calc (Gully Stabilization)	Tributary to Cobb Creek/Le Sueur River

Activity Name: AzizyH_412_DRAP2-16-04

Activity Category: Agricultural Practices **Staff time?:** No

Description: Grassed Waterways

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$5,070.00	$5,070.00	$0.00	10/15/2020	N
Landowner Fund	Landower contribution	$1,786.20	$1,786.20	$0.00	09/22/2020	Y

Actual Results

Results	*Date Added*
Two grassed waterways were installed that are 340 feet long and 240 feet long. The site is very sandy and prone to erosion, diversions were constructed on each of the grassed waterways as well to allow plenty of time for establishment. The landowner will have the option to keep	8/29/2018 11:36:24 AM

Results	***Date Added***
or remove the diversions after the first growing season. With the installation of the grassed waterways there is a reduction of 46.82 sediment (TSS) tons per year, 133.76 soil (estimated savings) tons per year, and 39.79 phosphorus pounds per year from being dumped into a tributary that leads to County Ditch 65 and eventually into Bancroft Bay of Fountain Lake.	

Final Indicators

Indicator	Total Value	Unit
Phosphorus (Est. Reduction)	39.79	Lbs/Yr
Soil (Est. Savings)	133.76	Tons/Yr
Sediment (Tss)	46.82	Tons/Yr

Activity Action Name:	AzizyH_412_DRAP2-16-04	Activity Count: 2
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 580 - Linear Feet
TA Provider/JAA:	TSA	Lifespan: 10 Years
Practice Description:	Two grassed waterways were installed that are 340 feet long and 240 feet long. The site is very sandy and prone to erosion, diversions were constructed on each of the grassed waterways as well to allow plenty of time for establishment. The landowner will have the option to keep or remove the diversions after the first growing season. With the installation of the grassed waterways there is a reduction of 46.82 sediment (TSS) tons per year, 133.76 soil (estimated savings) tons per year, and 39.79 phosphorus pounds per year from entering a tributary that leads to County Ditch 65 and eventually outlets into Bancroft Bay of Fountain Lake.	Install Date: 10/31/2020 Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	46.82	Bwsr Calc (Gully Stabilization)	Tributary to County Ditch 65
Soil (Est. Savings)	Tons/Yr	133.76	Bwsr Calc (Gully Stabilization)	Tributary to County Ditch 65
Phosphorus (Est. Reduction)	Lbs/Yr	39.79	Bwsr Calc (Gully Stabilization)	Tributary to County Ditch 65

Activity Name: Dahl_Bolinger_GradStab_DRAP15-02

Activity Category: Agricultural Practices	**Staff time?:** No
Description: Dahl_Bolinger_GradStab_DRAP15-02	
Actual Results	
Results	***Date Added***
	6/9/2016 9:51:51 AM

Activity Name: Landowner Contribution

Activity Category: Agricultural Practices	**Staff time?:** No
Description: Landowner Contribution	
Actual Results	
Results	***Date Added***
	1/22/2016 11:15:20 AM

Activity Name: StadheimR_412_DRAP2-16-03

Activity Category: Agricultural Practices	**Staff time?:** No
Description: Grassed waterway	
Budget Details	

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Landowner Fund	Landowner Contribution	$3,186.87	$3,186.87	$0.00	12/17/2019	Y
Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$9,560.63	$9,560.63	$0.00	12/20/2019	N

Actual Results

Results	*Date Added*
Amendment 1. Contract install date moved to 12/31/2019 due to wet field conditions of the 2018 construction season. Contractor has completed approximately 90% of the project. There is some minor leveling to be completed along with extending the main berm approximately 30 ft. Contractor was able to finish up the project in 2019 as planned. Project will now prevent a large gully forming blowing out the hill side. The project will hold back sediment and nutrients preventing them from entering a nearby surface water source.	3/20/2018 9:30:19 AM

Final Indicators

Indicator	Total Value	Unit
Soil (Est. Savings)	51.33	Tons/Yr
Sediment (Tss)	15.02	Tons/Yr
Phosphorus (Est. Reduction)	12.77	Lbs/Yr

Activity Action Name:	StadheimR_412_DRAP2-16-03	Activity Count: 1
Practice Type:	412 - Grassed Waterway and Swales	Size/Units: 1 - Acres
TA Provider/JAA:		Lifespan: 10 Years
Practice Description:	Constructed practice will prevent very large gully from opening up washing sediment and nutrients downstream to surface waters.	Install Date: 12/06/2019
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Sediment (Tss)	Tons/Yr	15.02	Bwsr Calc (Gully Stabilization)	Shell Rock Watershed
Soil (Est. Savings)	Tons/Yr	51.33	Bwsr Calc (Gully Stabilization)	Shell Rock Watershed
Phosphorus (Est. Reduction)	Lbs/Yr	12.77	Bwsr Calc (Gully Stabilization)	Shell Rock Watershed

Activity Name: T & A

Activity Category: Technical/Engineering Assistance | **Staff time?:** Yes

Description: T & A

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$8,448.00	$8,448.00	$0.00	08/31/2018	N

Actual Results

Results	*Date Added*
Manager/Tech. 41.5 hours @ $53.24=$2,209.46 Technician 13.5 hours @ $31.20 = $421.20 Training, compiling project lists, assisting with disaster relief contacts and projects. 9/21/15-12/31/15. Office Manager 3 hours @ $54.24 = $167.72 for grant tracking in 2016. Manager 16 hours @ $59.28 = $948.48 for technical assistance on 3 basins in 2016	1/22/2016 11:12:27 AM

Results	***Date Added***
Manager/Tech. 41.5 hours @ $53.24=$2,209.46 Technician 13.5 hours @ $31.20 = $421.20 Training, compiling project lists, assisting with disaster relief contacts and projects. 9/21/15-12/31/17. Manager 6 hours @ $69.22 = $415.32 for grant tracking in 2018. 3 Tech 42.5 hours @ $33.24 = $1412.70 for technical assistance in 2018 2 Tech 19.5 hours @ $40.38 = $787.41 for technical assistance in 2018 Due to poor weather conditions and a landowner misunderstanding this grant work was not completed. We have several other landowners willing to do projects that were on the DRAP list so we asked for an extension and were granted until 12/31/2019.	

Activity Name: WayneJ_WASCOB_DRAP2-16-02

Activity Category: Agricultural Practices | **Staff time?:** No

Description: WayneJ_638_WASCOB

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Landowner Fund	Landowner contribution	$1,812.13	$1,812.13	$0.00	12/13/2017	Y
Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Freeborn SWCD)	$3,825.00	$3,825.00	$0.00	12/14/2017	N

Actual Results	
Results	***Date Added***
surveyed and designed a system of two water and sediment control basins with outlet tile. Outlet is on WRE easement - compatible use agreement obtained from NRCS. Constructed 2 WASCBs with orifice plates. Treated 5 acres of watershed and provided 30,000 cubic feet of temporary water storage. Reduced 2.5 Tons of sediment and 2.5 pounds of phosphorus from entering Geneva lake and reduced 8.5 tons of soil erosion on Jeff's farm.	1/30/2017 8:34:14 AM

Final Indicators

Indicator	Total Value	Unit
Phosphorus (Est. Reduction)	2.53	Lbs/Yr
Soil (Est. Savings)	8.5	Tons/Yr
Sediment (Tss)	2.53	Tons/Yr

Activity Action Name:	WayneJ_WASCOB_DRAP2-16-02	Activity Count: 2
Practice Type:	638 - Water and Sediment Control Basin	Size/Units:
TA Provider/JAA:		Lifespan: 10 Years
Practice Description:	2 water and sediment basins installed.	Install Date: 12/14/2017
		Mapped: Yes

Indicator Name	Units	Value	Calculation Tool	Waterbody
Phosphorus (Est. Reduction)	Lbs/Yr	2.53	Bwsr Calc (Gully Stabilization)	Geneva lake
Soil (Est. Savings)	Tons/Yr	8.5	Bwsr Calc (Gully Stabilization)	Geneva Lake
Sediment (Tss)	Tons/Yr	2.53	Bwsr Calc (Gully Stabilization)	Geneva Lake