

# **Grant All-Detail Report Targeted Watershed 2015**

**Grant Title -** 2015 - Targeted Watershed (Chisago SWCD) **Grant ID** - P15-3373 **Organization -** Chisago SWCD

Original Awarded Amount	\$887,632.00	Grant Execution Date	3/9/2015
Required Match Amount	\$221,908.00	Original Grant End Date	3/31/2019
Required Match %	25%	<b>Grant Day To Day Contact</b>	Craig Mell
<b>Current Awarded Amount</b>	\$887,632.00	Current End Date	3/31/2019

## **Budget Summary**

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$887,632.00	\$887,632.00	\$0.00
Total Match Amount	\$315,905.77	\$306,907.90	\$8,997.87
Total Other Funds	\$14,049.65	\$14,049.65	\$0.00
Total	\$1,217,587.42	\$1,208,589.55	\$8,997.87

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

## **Budget Details**

						Last	Matchi
	Activity					Transaction	ng
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Administration	Administration /Coordination	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$37,028.23	\$37,028.23	10/16/2019	N
Agricultural Practices	Agricultural Practices	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$185,107.92	\$185,107.9 2	10/17/2019	N
Agricultural Practices	Agricultural Practices	Federal Funds		\$110,152.49	\$101,154.6 2	7/16/2019	Υ

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	Activity					Last Transaction	Matchi ng
Activity Name	Category	Source Type	Source Description	Budgeted	Spent	Date	Fund
Agricultural Practices	Agricultural Practices	Local Fund	Chisago SWCD	\$5,000.00	\$5,000.00	12/12/2018	Υ
Agricultural Practices	Agricultural Practices	Local Fund	LID	\$20,714.00	\$20,714.00	12/12/2018	Y
Livestock Waste Management	Livestock Waste Management	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$2,000.00	\$2,000.00	7/21/2016	N
Livestock Waste Management	Livestock Waste Management	Federal Funds		\$2,363.25	\$2,363.25	7/21/2016	Υ
Non-Structural Management Practices	Non-Structural Management Practices	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$5,091.56	\$5,091.56	12/12/2018	N
Non-Structural Management Practices	Non-Structural Management Practices	Federal Funds		\$1,251.60	\$1,251.60	5/10/2016	Υ
Non-Structural Management Practices	Non-Structural Management Practices	Local Fund	LID	\$1,900.00	\$1,900.00	12/12/2018	Υ
Project Development	Project Development	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$45,000.00	\$45,000.00	4/6/2017	N
Quintin Letourneau TW AG 15-18	Agricultural Practices	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$0.00			N
Quintin Letourneau TW AG 15-18	Agricultural Practices	Other Funds	2018 - State Cost-Share Fund (Chisago SWCD)	\$8,844.00	\$8,844.00	9/11/2018	N
Regulations/Ordinances/Enforceme nt	Regulations/Or dinances/Enfor cement	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$0.00			N
Regulations/Ordinances/Enforceme nt	Regulations/Or dinances/Enfor cement	Local Fund		\$0.00			Υ
Soil Erosion - 2017 Cost Share/Incentive Urban BMPs	Urban Stormwater Management Practices	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$0.00			N
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Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matchi ng Fund
Soil Erosion - 2017 Cost Share/Incentive Urban BMPs	Urban Stormwater Management Practices	Other Funds	2017 - SWCD Local Capacity Services (Chisago SWCD)	\$5,205.65	\$5,205.65	11/13/2018	N
Technical/Engineering	Technical/Engi neering Assistance	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$368,379.00	\$368,379.0 0	10/16/2019	N
Technical/Engineering	Technical/Engi neering Assistance	Local Fund		\$0.00			Υ
Urban Stormwater Management Practices	Urban Stormwater Management Practices	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$236,635.29	\$236,635.2 9	7/15/2019	N
Urban Stormwater Management Practices	Urban Stormwater Management Practices	Local Fund	2015 - Targeted Watershed (Chisago SWCD)	\$81,620.43	\$81,620.43	1/9/2018	Υ
Urban Stormwater Management Practices	Urban Stormwater Management Practices	Local Fund	LID	\$92,904.00	\$92,904.00	7/15/2019	Υ
Wetland Restoration/Creation	Wetland Restoration/Cr eation	Current State Grant	2015 - Targeted Watershed (Chisago SWCD)	\$8,390.00	\$8,390.00	8/30/2016	N

# **Activity Details Summary**

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
590 - Nutrient Management	1	1	8 COUNT	COUNT
638 - Water and Sediment Control	1	1	500 LINEAR FEET	500 LINEAR FEET
Basin				
468 - Lined Waterway or Outlet	1	1	180 LINEAR FEET	180 LINEAR FEET

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Activity Details	<b>Total Action Count</b>	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
412 - Grassed Waterway and Swales	1	1	556 LINEAR FEET	505 LINEAR FEET
600 - Terrace	1	1	288 LINEAR FEET	288 LINEAR FEET
638 - Water and Sediment Control Basin	2	2	881 LINEAR FEET	911 LINEAR FEET
804M - Permeable Surfaces	1	1	0.19 AC	0.19 AC
412 - Grassed Waterway and Swales	1	1	64 LINEAR FEET	64 LINEAR FEET
712M - Bioretention Basin	4	4	0.07 AC	0.07 AC
638 - Water and Sediment Control Basin	2	2	463 LINEAR FEET	535 LINEAR FEET
638 - Water and Sediment Control Basin	2	2	477 LINEAR FEET	454 LINEAR FEET
468 - Lined Waterway or Outlet	1	1	100 LINEAR FEET	90 LINEAR FEET
638 - Water and Sediment Control Basin	4	4	770 LINEAR FEET	770 LINEAR FEET
412 - Grassed Waterway and Swales	1	1	890 LINEAR FEET	890 LINEAR FEET
712M - Bioretention Basin	2	2	0.02 AC	0.02 AC
472 - Access Control	1	1	1350 LINEAR FEET	1350 LINEAR FEET
468 - Lined Waterway or Outlet	1	1	0.04 AC	0.03 AC
412 - Grassed Waterway and Swales	1	1	400 LINEAR FEET	340 LINEAR FEET
638 - Water and Sediment Control Basin	1	1	300 LINEAR FEET	270 LINEAR FEET
712M - Bioretention Basin	2	2	0.5 AC	0.05 AC
712M - Bioretention Basin	1	1	0.04 AC	0.04 AC
638 - Water and Sediment Control Basin	1	1	160 LINEAR FEET	173 LINEAR FEET
412 - Grassed Waterway and Swales	1	1	300 LINEAR FEET	300 LINEAR FEET
329B - Conservation Tillage	1	1	8 AC	8 AC
638 - Water and Sediment Control Basin	2	2	2 COUNT	2 COUNT
638 - Water and Sediment Control Basin	1	1	324 LINEAR FEET	324 LINEAR FEET

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Activity Details	<b>Total Action Count</b>	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control	1	1	225 LINEAR FEET	251 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	578 LINEAR FEET	578 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	200 LINEAR FEET	195 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	91 LINEAR FEET	95 LINEAR FEET
Basin				
587 - Structure for Water Control	1	1	333 COUNT	333 COUNT
468 - Lined Waterway or Outlet	1	1	650 LINEAR FEET	650 LINEAR FEET
362 - Diversion	1	1	195 LINEAR FEET	195 LINEAR FEET
468 - Lined Waterway or Outlet	1	1	225 LINEAR FEET	225 LINEAR FEET
412 - Grassed Waterway and Swales	1	1	345 LINEAR FEET	380 LINEAR FEET
587 - Structure for Water Control	2	2	1 COUNT	1 COUNT
155M - Storm Water Retention	2	2	0.01 AC	0.01 AC
Basins				
638 - Water and Sediment Control	1	1	307 LINEAR FEET	307 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	299 LINEAR FEET	305 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	122 LINEAR FEET	122 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	101 LINEAR FEET	104 LINEAR FEET
Basin				
638 - Water and Sediment Control	1	1	240 LINEAR FEET	267 LINEAR FEET
Basin				
412 - Grassed Waterway and Swales	1	1	251 LINEAR FEET	254 LINEAR FEET
558 - Roof Runoff Management	1	1	1 COUNT	1 COUNT
155M - Storm Water Retention	1	1	1 COUNT	1 COUNT
Basins				
590 - Nutrient Management	1	1	158400 LINEAR FEET	LINEAR FEET

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# **Proposed Activity Indicators**

Activity Name Indicator Name Value & Units Waterbody Calculation Tool Comments

# **Final Indicators Summary**

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	770.99	TONS/YR
SOIL (EST. SAVINGS)	554.06	TONS/YR
NITROGEN	90.00	LBS/YR
VOLUME REDUCED (ACRE-FEET/YEAR)	5.66	ACRE-FEET/YR
PHOSPHORUS (EST. REDUCTION)	806.11	LBS/YR
PHOSPHORUS FEEDLOT (EST. REDUCTION)	5.00	LBS/YR

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# **Grant Activity**

**Grant Activity - Administration** 

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Description	Objective 1: Administration
	Task 1: Execute Grant Agreement and Work Plan
	Task 2: Fiscal Accounting and Record Keeping – Processing contracts, issuing reimbursement funds, maintaining project
	folders.
	Task 3: Grant Reporting – Entering into elink.
	Task 4: BWSR Work Plan Meetings – Semi-annual meetings with BWSR staff to assess progress of grant
	Person(s) Responsible: Chisago SWCD Staff, Chisago SWCD Board, and BWSR Staff

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Start Date 18-Mar-15 End Date 22-Oct-19

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# Has Rates and Hours? Actual Results

Yes

#### As of May 19, 2015

Contracts developed and approved by SWCD Board for County Road 20, Matt Erickson, Tony Peters, Pat Eichten, and Lakehouse Restaurant. Urban kickoff meeting held on 4/14/15.

#### As of December 4, 2015

Developed contracts for Government Center employee parking lot and Center City-Nelson Court gully projects. Board approved payment for Chisago County Public Works, Matt Erickson, Tony Peters, Pat Eichten, Lakehouse Restaurant, Chisago County for Government Center parking lot, and Center City for Nelson Court gully. Held rural kickoff meeting on 6/17/15 with four people attending and all interested in projects.

#### As of January 19, 2016

SWCD board approved certification of Mobeck Avenue project and Busch Avenue project. Reimbursement was issued for both projects on December 10, 2015. All eLINK reporting is up to date.

#### As of November 8, 2016

eLINK reporting is up to date. Reimbursement was issued for Chisago Lakes High School, Olinda Trail gully stabilization, and Scott Lund gully stabilization.

#### As of January 2017

Contracts and payment vouchers have been finalized for Brian Olson, Kent Reed, Craig Peltier, Justin Wilson, and Bruce Olson. Elink reporting is up to date.

#### As of January 4, 2018

Contract and payment vouchers are finalized for John Lelwica, Nelson Bloom, David Thompson, Pat Eichten (2 projects), and Max Gustafson. Elink reporting is up to date. We will utilize funds from technical/engineering category to cover the overage in administration and will submit for a work plan amendment if the amount reaches over 10%.

#### As of January 8, 2019

Contracts and payment vouchers were completed for Byron Dalheimer, Lee Nelson, Quintin Letourneau, and Donna Peterson (Carl Lindberg Trust), as well as City of Center City Pioneer Lake Outlet, Center City Lakefront Rain Garden, and Newell Alley in Lindstrom. Elink reporting is up to date.

See eLink attachment October 22, 2019

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# **Grant Activity - Agricultural Practices**

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#### Description

#### Task 1: Agricultural Practices

- 2015 BMP Implementation Install the following shovel ready projects: Peters WASCOB (Green Lake), Erickson WASCOB, Critical Area Seeding, Permanent Vegetation (Green Lake), Eichten 2 WASCOBs, Grassed Waterway (Linn Lake), Chisago County County Road 20 Rock Lined Waterway (North Center Lake), and Chisago County County Road 24 Rock Lined Waterway (Bloomquist Creek/Sunrise River).
- 2016-2018 BMP Implementation Our goal is to utilize our completed rural stormwater assessments to identify and install approximately 20 agricultural BMPs for a combined total phosphorus reduction of 500 pounds per year (including 2015 projects). Potential BMPs include water and sediment control basins, filter strips, waterways, cover crops, rotational grazing, permanent vegetation plantings, use-exclusion, gully stabilization projects, etc.

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Category	AGRICULTURAL PRACTICES					
Start Date	14-Apr-15	End Date	22-Oct-19			
Has Rates and Hours?	No					
Actual Results	As of May 19, 2015					
	Funds have been encumbered for Matt Ericks construction expected as soon as possible de		ichten projects. Project			
	As of January 19, 2016					
	Construction complete on Matt Erickson, Cou	nty Road 20/Doherty, Tony Peters, and Pa	t Eichten projects.			
	As of November 8, 2016					
	Construction has been completed for Kent Re					
	and sediment control basin, grassed waterwa	· ·				
	Due to wet weather, construction has been d contract 1 year in case construction is not abl		ract amendment to extend the			
	As of January 9, 2017					
	The Lelwica project has been completed except for minor grading and adjustments in spring due to the cold weather during construction.					
	As of July 19, 2017					
	Projects (Nelson Bloom, Pat Eichten Home pla payment has been approved by the SWCD Bo	·	son) are completed, certified, and			
	As of January 4, 2018					
	The Max Gustafson fencing project was comp	leted in September and has been certified				
	As of January 8, 2019					
	Byron Dahlheimer, Lee Nelson, Quintin Letou Mitchell's project is design but not yet installe		completed and certified. Virginia			

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See eLink attachment October 22, 2019

	Activity Action - AG 15-1 Matt Erickson						
	Activity Action - Act 13-1 Matt Elickson						
	Practice		638 - Water and Sediment Control	Count of	f Activities		1
			Basin				
	Description						
	Proposed Size	/ Units	160.00 LINEAR FEET	Lifespar	1		10 Years
	Actual Size/Ur	nits	173.00 LINEAR FEET	Installed	l Date		24-Sep-15
	Mapped Activ	ities	1 Point(s)				
Final Indicator for	r AG 15-1 Matt	Erickson					
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	17.3	
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	SR CALC (GULLY
						STA	BILIZATION)
Waterbody		Green Lak	re				
<b>Final Indicator for</b>	r AG 15-1 Matt	Erickson					
Indicator Name		SEDIMEN	T (TSS)		Value	17.3	
Indicator Subcategory/Units WATER PO		OLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool	BWS	SR CALC (GULLY	
						STA	BILIZATION)
Waterbody		Green Lak	re				
Activity Action AG 15 2 CP 20/Dehorty							

	Activity Action	Activity Action - AG 15-2 CR 20/Doherty						
	Practice		468 - Lined Waterway or Outlet	Count of Activities			1	
	Description							
	Proposed Size / Units		100.00 LINEAR FEET	Lifespar	1		10 Years	
	Actual Size/Units		90.00 LINEAR FEET	Installed	l Date		7-Jul-15	
	Mapped Activities		1 Line(s)	Line(s)				
Final Indicator for AG 15-2 CR 20/Doherty								
Indicator Name		SEDIMENT	IT (TSS)		Value	0.2		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		R CALC (GULLY BILIZATION)	
Waterbody		North Cer	iter Lake					
Final Indicator for	r AG 15-2 CR 2	0/Doherty						
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	0.2		
Indicator Subcategory/Units WATER P		WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool		R CALC (GULLY BILIZATION)	
Waterbody		North Cer	nter Lake					

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	Activity Action	Activity Action - AG 15-3 Tony Peters							
	Practice		638 - Water and Sediment Control	Count of Activities		1			
			Basin						
	Description								
	Proposed Size / Units		240.00 LINEAR FEET	Lifespar	1		10 Years		
	Actual Size/Units		267.00 LINEAR FEET	Installed	l Date		24-Sep-15		
	Mapped Activities		Point(s)						
Final Indicator for	Final Indicator for AG 15-3 Tony Peters								
Indicator Name		PHOSPHO	ORUS (EST. REDUCTION)		Value	51.9			
Indicator Subcate	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (GULLY		
						STABILIZATION)			
Waterbody		Green Lak	re						
Final Indicator for	r AG 15-3 Tony	Peters							
Indicator Name		SEDIMEN	T (TSS)		Value	51.9			
Indicator Subcategory/Units WATER PO		WATER PO	POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWS	R CALC (GULLY		
						STAE	BILIZATION)		
Waterbody		Green Lak	re						

	Activity Action - AG 15-4 Pat Eichten WASCOB							
	Practice		638 - Water and Sediment Control	Count of Activities			1	
			Basin					
	Description							
	Proposed Size / Units		300.00 LINEAR FEET	Lifespar	1		10 Years	
	Actual Size/Units		270.00 LINEAR FEET	Installed	l Date		2-Jun-15	
	Mapped Activities		1 Point(s)	Point(s)				
Final Indicator for	r AG 15-4 Pat I	Eichten W <i>A</i>	ASCOB					
Indicator Name		SEDIMENT	T (TSS)		Value	12		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		R CALC (GULLY ILIZATION)	
Waterbody		South Cen	nter Lake					
Final Indicator for	r AG 15-4 Pat H	Eichten WA	ASCOB					
<b>Indicator Name</b>		PHOSPHO	RUS (EST. REDUCTION)		Value	12		
Indicator Subcate	gory/Units	WATER PO	ATER POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool		R CALC (GULLY ILIZATION)	
Waterbody		South Cen	nter Lake					

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	Activity Action	Activity Action - AG 15-5 Pat Eichten GWW							
	Practice		412 - Grassed Waterway and	Count of Activities		1			
			Swales						
	Description								
	Proposed Size / Units		400.00 LINEAR FEET	Lifespar	1		10 Years		
	Actual Size/Units		340.00 LINEAR FEET	Installed	l Date		3-Jun-15		
	Mapped Activities		L Polygon(s)						
Final Indicator for	Final Indicator for AG 15-5 Pat Eichten GWW								
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	14			
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool		R CALC (GULLY		
						STAE	BILIZATION)		
Waterbody		South Cen	iter Lake						
Final Indicator for	r AG 15-5 Pat <b>F</b>	Eichten GV	VW						
Indicator Name		SEDIMEN	T (TSS)		Value	14			
Indicator Subcategory/Units WATER PO		WATER PO	POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWS	R CALC (GULLY		
						STAE	BILIZATION)		
Waterbody		South Cen	iter Lake						

	Activity Action	Activity Action - AG 15-6 Brian Olson						
	Practice		362 - Diversion	Count of Activities			1	
	Description		A diversion was installed to direct water into a grassed waterway, which was installed in an area where active					
			erosion was occurring in an agricultural field.					
	Proposed Size	/ Units	195.00 LINEAR FEET	Lifespan			10 Years	
	Actual Size/Units		195.00 LINEAR FEET	Installed	l Date		31-May-16	
	Mapped Activities		1 Line(s)					
Final Indicator for	r AG 15-6 Briai	n Olson						
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	3		
Indicator Subcate	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		North Cer	nter Lake					
Final Indicator for	r AG 15-6 Briai	n Olson						
Indicator Name		SEDIMENT	T (TSS)		Value	3		
Indicator Subcategory/Units WATER P		OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		R CALC (GULLY BILIZATION)		

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vv acci body		North Cci	itei Lake					
	Activity Action	n - AG 15-7	Kent Reed					
	Practice		638 - Water and Sediment Control	Count o	f Activities	2	2	
			Basin					
	Description		Two water and sediment control basins and a diversion were installed in an agricultural field with perennial					
			erosion problems. A tile drains both WASCOBs and outlets into an existing ditch.					
	Proposed Size	/ Units	2.00 COUNT	Lifespa	n	1	10 Years	
	Actual Size/Units		2.00 COUNT	Installe	d Date	3	31-May-16	
	Mapped Activ	rities	2 Point(s)					
Final Indicator f	or AG 15-7 Ken	t Reed						
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)	ICTION) Value		31		
Indicator Subcat			OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		North Cer	iter Lake					
Final Indicator f	or AG 15-7 Ken	t Reed						
Indicator Name		SEDIMEN	T (TSS)		Value	31		
Indicator Subcat	tegory/Units	WATER P	OLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		North Cer	nter Lake					
	Activity Action	n - AG 15-8	Craig Peltier					
	Practice		638 - Water and Sediment Control	Count o	of Activities	1	1	
			Basin					
	Description		A water and sediment control basin with an underground outlet was installed in an agricultural field where					
			perennial gully erosion was occurring.					

	Practice		638 - Water and Sediment Control	Count of	f Activities		1		
			Basin						
	Description		A water and sediment control basin with an underground outlet was installed in an agricultural field where						
			perennial gully erosion was occurring	erennial gully erosion was occurring.					
	Proposed Size / Units		200.00 LINEAR FEET	Lifespan		10 Years			
	Actual Size/Units		195.00 LINEAR FEET	Installed Date		17-May-16			
	Mapped Activ	ities	1 Point(s)						
Final Indicator for	· AG 15-8 Crai	g Peltier							
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	4			
Indicator Subcategory/Units WATER PO		OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool		R CALC (GULLY			
					STAB	ILIZATION)			
Waterbody North Ce			iter Lake						

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Final Indicator for AG 15-8 Craig Peltier								
Indicator Name	SEDIMENT (TSS)	Value	4					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY					
			STABILIZATION)					
Waterbody	North Center Lake							

	Activity Action	ctivity Action - AG 15-9 John Lelwica						
	Practice		638 - Water and Sediment Control	Count o	f Activities		4	
			Basin					
	Description		Project was installed in December of	roject was installed in December of 2017. Final grading and correction of any settling will be done in the				
			spring after soils thaw because the pr	oring after soils thaw because the project was constructed during cold weather.				
	<b>Proposed Size</b>	/ Units	770.00 LINEAR FEET	Lifespan			10 Years	
	Actual Size/Units		770.00 LINEAR FEET	Installed Date			16-Feb-17	
	Mapped Activities		4 Point(s)					
Final Indicator fo	r AG 15-9 John	Lelwica						
Indicator Name		SEDIMEN <sup>*</sup>	iT (TSS)		Value	38		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWSR CALC (GULLY		
						STAB	ILIZATION)	
Waterbody		Kroon Lak	e					
Final Indicator fo	r AG 15-9 John	Lelwica						
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	38		
<b>Indicator Subcate</b>	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool	on Tool BWSR CALC (GULLY		
						STAB	SILIZATION)	
Waterbody		Kroon Lak	e					

	Activity Action - AG 15-1	Activity Action - AG 15-10 Nelson Bloom								
	Practice	638 - Water and Sediment Control	Count of Activities	2						
		Basin								
	Description									
	Proposed Size / Units	463.00 LINEAR FEET	Lifespan	10 Years						
	Actual Size/Units	535.00 LINEAR FEET	Installed Date	19-Jun-17						
	<b>Mapped Activities</b>	2 Point(s)								
Final Indicator for	al Indicator for AG 15-10 Nelson Bloom									
ndicator Name	PHOSPH	DRUS (EST. REDUCTION)	Value	47.17						

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Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	BWSR CALC (GULLY STABILIZATION)							
Waterbody	Peterson Lake	Peterson Lake							
Final Indicator for AG 15-10 Nelson Bloom									
Indicator Name	SOIL (EST. SAVINGS)	Value	47.17						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY						
			STABILIZATION)						
Waterbody	Peterson Lake								
Final Indicator for AG 15-10 Ne	lson Bloom								
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	47.17						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY						
			STABILIZATION)						
Waterbody	Peterson lake								

	Activity Action - AG 15-11 David Thompson							
	Activity Action	1 - AG 15-11	L David Thompson					
	Practice		638 - Water and Sediment Control	Count of	f Activities		1	
			Basin					
	Proposed Size / Units		SWCD Board encumbered funds 4/11/17					
			91.00 LINEAR FEET	Lifespar	ı		10 Years	
			95.00 LINEAR FEET	Installed Date			12-May-17	
	Mapped Activ	ities	1 Point(s)					
Final Indicator for AG 15-11 David Thompson								
<b>Indicator Name</b>		PHOSPHO	ORUS (EST. REDUCTION)		Value	51.09	9	
<b>Indicator Subcate</b>	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (GULLY	
						STAB	BILIZATION)	
Waterbody		Spider Lak						
Final Indicator for	r AG 15-11 Dav	vid Thomps						
<b>Indicator Name</b>		SEDIMENT	T (TSS)		Value	51.09	9	
<b>Indicator Subcate</b>	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	R CALC (GULLY	
						STAB	BILIZATION)	
Waterbody		Spider Lak						
Final Indicator for	r AG 15-11 Day	vid Thomps	son					
<b>Indicator Name</b>		SOIL (EST.	SAVINGS)		Value	160.4	4	
Indicator Subcate	gory/Units	WATER PO	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		R CALC (GULLY	
						STAB	BILIZATION)	
Waterbody		Spider Lak	Ke .					

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	Activity Action - AG 15-11 David Thompson Waterway						
	Practice		468 - Lined Waterway or Outlet	ned Waterway or Outlet Count of Activities			1
	Description		WCD Board encumbered 4/11/17				
	Proposed Size / Units		0.04 AC	Lifespan	1		10 Years
	Actual Size/Ur	nits	0.03 AC	Installed	l Date		12-May-17
	Mapped Activ	ities	1 Line(s)				
Final Indicator for	r AG 15-11 Day	vid Thomp	son Waterway				
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	10.4	2
Indicator Subcategory/Units WATER P		WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool BWSR CALC (GULLY STABILIZATION)		•
Waterbody		Spider Lal	_ake				
Final Indicator for	r AG 15-11 Day	vid Thomp	son Waterway				
Indicator Name		SEDIMEN <sup>*</sup>	T (TSS)		Value	10.42	2
Indicator Subcate	gory/Units	WATER PO	TER POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		R CALC (GULLY BILIZATION)
Waterbody		Spider Lal					
Final Indicator for	r AG 15-11 Day	vid Thomp	son Waterway				
Indicator Name	Indicator Name SOIL (EST.		SAVINGS)		Value	32.7	3
Indicator Subcate	tor Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR Calculation Tool		Calculation Tool		R CALC (GULLY BILIZATION)		
Waterbody		Spider Lal	ке				

	Activity Action - AG 15-12 Eichten Home Site						
			638 - Water and Sediment Control	Count of	f Activities		1
			Basin				
	Description		SWCD Board encumbered funds 4/11	./17			
	Proposed Size / Units Actual Size/Units		324.00 LINEAR FEET	Lifespan		10 Years	
			324.00 LINEAR FEET	Installed Date		19-Jun-17	
	Mapped Activ	ities	1 Point(s)				
Final Indicator for	· AG 15-12 Eicl	hten Home	Site				
<b>Indicator Name</b>		SOIL (EST.	SAVINGS)		Value	16.2	8
Indicator Subcategory/Units WATER PO		OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		R CALC (GULLY	
						STAE	BILIZATION)
Waterbody	dy Linn Lake						

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Final Indicator for AG 15-12 Eichten Home Site								
Indicator Name	SEDIMENT (TSS)	Value	3.94					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)					
Waterbody	Linn Lake	_						
Final Indicator for AG 15-12 Eic	hten Home Site							
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.94					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)					
Waterbody	Linn Lake							

$\Delta c$	Activity Action - AG 15-1		Fichten Mohler Site				
AC	7.0, 7.0 7.0		Licited Moner Site				
Pra	Practice		412 - Grassed Waterway and	Count of	f Activities		1
			Swales				
De	escription		SWCD Board encumbered funds 4/11	/17			
Pro	oposed Size	/ Units	64.00 LINEAR FEET	Lifespar	1		10 Years
Ac	ctual Size/Un	its	64.00 LINEAR FEET	Installed	l Date		19-Jun-17
M	lapped Activi	ties	1 Polygon(s)				
Final Indicator for AC	G 15-13 Eich	iten Mohle	er Site				
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	15.13	3
Indicator Subcategory	y/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (GULLY
					STABILIZATION)		SILIZATION)
Waterbody		Linn Lake					
Final Indicator for AC	G 15-13 Eich	iten Mohle	er Site				
Indicator Name		SEDIMENT	「(TSS)		Value	15.13	3
Indicator Subcategory	y/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	R CALC (GULLY
						STAB	SILIZATION)
Waterbody		Linn Lake					
Final Indicator for AC	G 15-13 Eich	iten Mohle	er Site				
Indicator Name SOIL (EST		SOIL (EST.	SAVINGS)		Value	15.13	3
Indicator Subcategory	Indicator Subcategory/Units WATER P		DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool		R CALC (GULLY SILIZATION)
Waterbody		Linn Lake					

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Practice 472 - Access Control Count of Activities 1  Description Fencing to keep cattle out of South Center Lake. SWCD Board encumbered funds 4/11/2017  Proposed Size / Units 1,350.00 LINEAR FEET Lifespan 10 Years  Actual Size/Units 1,350.00 LINEAR FEET Installed Date 12-Sep-17  Mapped Activities 1 Polygon(s)  Final Indicator for AG 15-14 Max Gustafson			
Proposed Size / Units 1,350.00 LINEAR FEET Lifespan 10 Years Actual Size/Units 1,350.00 LINEAR FEET Installed Date 12-Sep-17 Mapped Activities 1 Polygon(s)			
Actual Size/Units 1,350.00 LINEAR FEET Installed Date 12-Sep-17  Mapped Activities 1 Polygon(s)			
Mapped Activities 1 Polygon(s)			
Final Indicator for AC 15 14 May Custafean			
That fluicator for AG 13-14 Max Gustaison	Final Indicator f		
Indicator Name PHOSPHORUS (EST. REDUCTION) Value 27	Indicator Name		
Indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool MINNFARM	Indicator Subcategory/Units WATER PO		
Waterbody Peterson Lake	Waterbody Peterson Lake		

	Activity Action - AG 15-15 Byron Dahlheimer						
	Practice		638 - Water and Sediment Control	Count of Activities			2
			Basin				
	Description		2 WASCOBs				
	Proposed Size	/ Units	881.00 LINEAR FEET	Lifespar	1		10 Years
	Actual Size/Ur	nits	911.00 LINEAR FEET	Installed	l Date		6-Jun-18
	Mapped Activ	ities	2 Point(s)				
Final Indicator for	r AG 15-15 Byr	on Dahlhe	imer				
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	10.96	
Indicator Subcate	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWSR CALC (SHEET AND RILL)	
Waterbody		North Cer					
Final Indicator for	r AG 15-15 Byr	on Dahlhe	imer				
Indicator Name		SEDIMEN	IT (TSS)		Value	10.8	
Indicator Subcate	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool	BWS	R CALC (SHEET AND RILL)
Waterbody		North Cer	nter Lake				
Final Indicator for	r AG 15-15 Byr	on Dahlhe	imer				
Indicator Name SOIL (EST		SOIL (EST.	SAVINGS)		Value	10.8	
Indicator Subcate	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool	BWS	R CALC (SHEET AND RILL)
Waterbody		North Cer	nter Lake				

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	Activity Action	n - AG 15-16	- AG 15-16 Virginia Mitchell					
	Practice		412 - Grassed Waterway and	ed Waterway and Count of Activities		1		
			Swales	wales				
	Description		Diversion and grassed waterway	iversion and grassed waterway				
	Proposed Size / Units		890.00 LINEAR FEET	Lifespa	n	10 Years		
	Actual Size/Ur	nits	890.00 LINEAR FEET	Installe	d Date	5-Jun-19		
	Mapped Activ	ities	1 Polygon(s)					
Final Indicator for	r AG 15-16 Vir	ginia Mitcl	hell					
Indicator Name		SOIL (EST.	SAVINGS)		Value	0.48		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	RUSLE2 (UPDATED)		
Waterbody			akes Chain of Lakes Watershed					
Final Indicator for	r AG 15-16 Vir	ginia Mitcl	hell					
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	14.03		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		Chisago L	akes Chain of Lakes Watershed					
Final Indicator for	r AG 15-16 Vir	ginia Mitcl	hell					
Indicator Name		SEDIMEN <sup>*</sup>	T (TSS)		Value	16.5		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody			akes Chain of Lakes Watershed					
Final Indicator for	r AG 15-16 Vir	ginia Mitcl	hell					
Indicator Name		SOIL (EST.	SAVINGS)		Value	16.5		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		Chisago La	akes Chain of Lakes Watershed					

Activity Action - AG 15-17 Lee Nelson WASCOB									
Practice	638 - Water and Sediment Control	Count of Activities	2						
	Basin								
Description	2 WASCOBs								
Proposed Size / Units	477.00 LINEAR FEET	Lifespan	10 Years						
Actual Size/Units	454.00 LINEAR FEET	<b>Installed Date</b>	5-Jun-18						
Mapped Activities	2 Point(s)	_							

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Final Indicator for AG 15-17 Lee Nelson WASCOB								
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	15.75					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)					
Waterbody	South Lindstrom Lake							
Final Indicator for AG 15-17 Lee	Nelson WASCOB							
Indicator Name	SEDIMENT (TSS)	Value	10.93					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)					
Waterbody	South Lindstrom Lake							
Final Indicator for AG 15-17 Lee	Nelson WASCOB							
Indicator Name	SOIL (EST. SAVINGS)	Value	20.84					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)					
Waterbody	South Lindstrom Lake							

	Activity Action - AG 15-17 Lee Nelson GWW							
	Practice		412 - Grassed Waterway and	Count	of Activities		1	
			Swales					
	Description		Grassed waterway					
	<b>Proposed Size</b>	/ Units	556.00 LINEAR FEET	Lifespa	n		10 Years	
	Actual Size/Ur	nits	505.00 LINEAR FEET	Installe	d Date		7-Jun-18	
	Mapped Activ	ities	1 Polygon(s)					
Final Indicator for AG 15-17 Lee Nelson GWW								
<b>Indicator Name</b>		PHOSPHO	DRUS (EST. REDUCTION)		Value	34.4	7	
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (FILTER STRIP)	
Waterbody			dstrom Lake					
Final Indicator for	r AG 15-17 Lee	Nelson GV	WW					
<b>Indicator Name</b>		SEDIMENT	IMENT (TSS)		Value	25.7		
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) T	ONS/YR	Calculation Tool	BWS	R CALC (FILTER STRIP)	
Waterbody		South Line	dstrom Lake					
Final Indicator for	r AG 15-17 Lee	Nelson GV	WW					
<b>Indicator Name</b>	Indicator Name SOIL (EST		SAVINGS)		Value	0.45		
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) T	ONS/YR	Calculation Tool	BWS	R CALC (FILTER STRIP)	
Waterbody		South Line	dstrom Lake					

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	Activity Action - AG 15-18 Quintin Letourneau						
	Practice		638 - Water and Sediment Control	Count of	f Activities		1
			Basin				
	Description		WASCOB				
	Proposed Size / Units		225.00 LINEAR FEET Lifespan				10 Years
	Actual Size/Units		251.00 LINEAR FEET	Installed	Date		23-Nov-18
	Mapped Activ	ities	1 Point(s)				
Final Indicator for	r AG 15-18 Qui	ntin Letou	rneau				
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	4.32	
Indicator Subcate	gory/Units		DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool	BWS	SR CALC (SHEET AND RILL)
Waterbody		Mattson L					
Final Indicator for	r AG 15-18 Qui						
Indicator Name		SEDIMENT		_	Value	3.19	
Indicator Subcate	gory/Units		DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	SR CALC (SHEET AND RILL)
Waterbody Mattson Lake Final Indicator for AG 15-18 Quintin Letourneau							
	r AG 15-18 Qui				** 1		
Indicator Name	/ET *4	SOIL (EST.	•	N.C. (N.D.	Value	6.44	
Indicator Subcates Waterbody	gory/Units	Mattson L	OLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	BWS	SR CALC (SHEET AND RILL)
waterbody		Mattson L	ake				
	Activity Action	- AG 15-18	Quintin Letourneau GWW				
	Practice		412 - Grassed Waterway and Swales	Count of	f Activities		1
	Description		Grassed waterway				
	<b>Proposed Size</b>	/ Units	251.00 LINEAR FEET	Lifespan	Lifespan		10 Years
	Actual Size/Un	its	254.00 LINEAR FEET	Installed	Date		23-Nov-18
	Mapped Activ	ities	1 Polygon(s)				
Final Indicator for	r AG 15-18 Qui	ntin Letou	rneau GWW				
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	24.2	
Indicator Subcate	gory/Units	WATER PC	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool	BWS	R CALC (SHEET AND RILL)
Waterbody		Mattson L					
Final Indicator for	r AG 15-18 Qui	ntin Letou	rneau GWW				
Indicator Name		SEDIMENT	• •		Value	14.2	
Indicator Subcate	gory/Units	WATER PC	DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	BWS	SR CALC (SHEET AND RILL)

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Waterbody	Mattson Lake						
Final Indicator for AG 15-18 Qui	ntin Letourneau GWW						
Indicator Name	SOIL (EST. SAVINGS)	Value	28.8				
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)				
Waterbody	Mattson Lake						

	Activity Action - AG 15-19 Donna Peterson (Carl Lindberg Trust)						
	Practice		638 - Water and Sediment Control	Count of Activities 1		1	
			Basin				
	Description		WASCOB				
	Proposed Size	/ Units	578.00 LINEAR FEET	Lifespar	1		10 Years
	Actual Size/Ur	nits	578.00 LINEAR FEET	Installed	l Date		4-Dec-18
	Mapped Activ	ities	1 Point(s)				
Final Indicator for AG 15-19 Donna Peterson (Carl Lindberg Trust)							
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	42.72	1
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LE	CTION ESTIMATES) LBS/YR Calculation Tool BWSR C		R CALC (SHEET AND RILL)	
Waterbody		Green Lak	e				
Final Indicator for	r AG 15-19 Dor	ına Peterso	on (Carl Lindberg Trust)				
Indicator Name		SEDIMEN	T (TSS)		Value	26.22	2
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool	BWS	R CALC (SHEET AND RILL)
Waterbody		Green Lak	ce control				
Final Indicator for	r AG 15-19 Dor	nna Peterso	on (Carl Lindberg Trust)				
Indicator Name	Indicator Name SOIL (EST.		SAVINGS)		Value	63.14	4
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool	BWS	R CALC (SHEET AND RILL)
Waterbody		Green Lak	ce				

Activity Action - AG 15-20 Eichten (Mom's) WASCOB									
Practice	638 - Water and Sediment Control Count of Activities 1								
	Basin								
Description	Berm, no more than 4FT tall, grassed								
Proposed Size / Units	307.00 LINEAR FEET	Lifespan	10 Years						
Actual Size/Units	307.00 LINEAR FEET	Installed Date	13-Aug-19						
Mapped Activities	1 Point(s)								

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Final Indicator for AG 15-20 Eichten (Mom's) WASCOB								
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	9.86					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY					
			STABILIZATION)					
Waterbody	Chisago Lakes Chain of Lakes Watershed							
Final Indicator for AG 15-20 Eic	hten (Mom's) WASCOB							
Indicator Name	SEDIMENT (TSS)	Value	8.58					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY					
			STABILIZATION)					
Waterbody	Chisago Lakes Chain of Lakes Watershed							
Final Indicator for AG 15-20 Eic	hten (Mom's) WASCOB							
Indicator Name	SOIL (EST. SAVINGS)	Value	24.50					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY					
			STABILIZATION)					
Waterbody	Chisago Lakes Chain of Lakes Watershed							

	Activity Action - AG 15-2		L Eichten (Jensen)				
	Practice		600 - Terrace	500 - Terrace Count of Activities		1	
	Description						
	<b>Proposed Size</b>	/ Units	288.00 LINEAR FEET	Lifespan	ı		10 Years
	Actual Size/Ur	nits	288.00 LINEAR FEET	Installed	l Date		13-Aug-19
	Mapped Activ	ities	1 Polygon(s)				
Final Indicator for	r AG 15-21 Eic	hten (Jense	en)				
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	1.41	
Indicator Subcate	Indicator Subcategory/Units WATER P		OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool BWSR CALC (GULLY STABILIZATION)		•
Waterbody		Chisago La	Lakes Chain of Lakes Watershed				
Final Indicator for	r AG 15-21 Eic	hten (Jense	en)				
<b>Indicator Name</b>		SEDIMEN <sup>*</sup>	T (TSS)		Value	1.23	
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool		R CALC (GULLY SILIZATION)
Waterbody			akes Chain of Lakes Watershed				
Final Indicator for	r AG 15-21 Eic	hten (Jense	en)				
Indicator Name SOIL (EST		SAVINGS)		Value	7.00		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool		R CALC (GULLY SILIZATION)

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	Activity Action	- AG 15-22	2 Dale Fredell WASCOB				
	Practice		638 - Water and Sediment Control	Count of Activities 1		1	
			Basin				
	Description		less than 4FT tall, grassed				
	B	/ III de	404.00 UNISAD EFFT	I :form an			40.77
	Proposed Size		101.00 LINEAR FEET	Lifespan			10 Years
	Actual Size/Ur	iits	104.00 LINEAR FEET	Installed	Date		2-Jul-19
	Mapped Activ		1 Point(s)				
Final Indicator for	r AG 15-22 Dal	e Fredell V	VASCOB				
Indicator Name		PHOSPHO	ORUS (EST. REDUCTION)		Value	2.21	
Indicator Subcate	gory/Units	WATER PO	POLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWSR CALC (GULLY	
						STAE	BILIZATION)
Waterbody		Kroon Lak					
Final Indicator for	r AG 15-22 Dal	e Fredell V	VASCOB				
Indicator Name		SOIL (EST.	SAVINGS)		Value	1.93	
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)
Waterbody		Kroon Lak	e				
Final Indicator for	r AG 15-22 Dal	e Fredell V	VASCOB				
Indicator Name		SEDIMEN	T (TSS)		Value	1.93	
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)
Waterbody		Kroon Lak	on Lake				

Activity Action - AG 15-22 Dale Fredell WASCOB-Farmed									
Practice	638 - Water and Sediment Control Count of Activities 1								
	Basin								
Description	Between 4-6FT tall - Farmed								
Proposed Size / Units	299.00 LINEAR FEET	Lifespan	10 Years						
Actual Size/Units	305.00 LINEAR FEET	<b>Installed Date</b>	2-Jul-19						
Mapped Activities	1 Point(s)								

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Final Indicator for AG 15-22 Dale Fredell WASCOB-Farmed									
Indicator Name	SOIL (EST. SAVINGS)	Value	4.4						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)						
Waterbody	Kroon Lake	_							
Final Indicator for AG 15-22 Dale Fredell WASCOB-Farmed									
Indicator Name	SEDIMENT (TSS)	Value	6.7						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)						
Waterbody	Kroon Lake								
Final Indicator for AG 15-22 Dale	e Fredell WASCOB-Farmed								
Indicator Name	SEDIMENT (TSS)	Value	17.5						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY						
			STABILIZATION)						
Waterbody	Kroon Lake								
Final Indicator for AG 15-22 Dale	e Fredell WASCOB-Farmed								
Indicator Name	SOIL (EST. SAVINGS)	Value	17.50						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY						
			STABILIZATION)						
Waterbody	Kroon Lake								
Final Indicator for AG 15-22 Dale	e Fredell WASCOB-Farmed								
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	20.13						
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY						
			STABILIZATION)						
Waterbody	Kroon Lake								

	Activity Action	Activity Action - AG 15-23 Mattson GWW						
	Practice		412 - Grassed Waterway and	Count of Activities			1	
			Swales					
	Description							
	Proposed Size / Units		345.00 LINEAR FEET	Lifespan			10 Years	
	Actual Size/Ur	nits	380.00 LINEAR FEET	<b>Installed Date</b>			17-Oct-19	
	Mapped Activ	ities	1 Polygon(s)					
Final Indicator fo	r AG 15-23 Ma	ttson GWV	V					
<b>Indicator Name</b>		PHOSPHO	RUS (EST. REDUCTION)		Value	16.9	1	
Indicator Subcategory/Units WATER PO		OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	BWS	R CALC (GULLY		
						STAE	BILIZATION)	
Waterbody Chisago L			akes Chain of Lakes Watershed					

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Final Indicator for AG 15-23 Mattson GWW								
Indicator Name	SEDIMENT (TSS)	Value	14.70					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)					
Waterbody	Chisago Lakes Chain of Lakes Watershed	,						
Final Indicator for AG 15-23 Ma	attson GWW							
Indicator Name	SOIL (EST. SAVINGS)	Value	42.00					
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)					
Waterbody	Chisago Lakes Chain of Lakes Watershed							

Description	assessments to identify and ir management planning, filter s	Task 2: Livestock Waste Management Practices – Our goal is to utilize our completed rural stormwater retrofit assessments to identify and install approximately 3 livestock waste management BMPs, such as use exclusion, nutrient management planning, filter strips, agricultural waste storage facility, clean water diversion, manure transfer, roof runoff structure, etc. for a combined total phosphorus reduction of 20 pounds per year.					
Category	LIVESTOCK WASTE MANAGEN	<b>MENT</b>					
Start Date	11-Aug-15	End Date	13-Jan-17				
Has Rates and Hours? Actual Results	As of November 8, 2016 Project was completed June 2  As of January 9, 2017 WORK PLAN AMENDMENT Approved by Brad Wozney 1/9 \$18,000 balance from grant to One project has been complete	6/2017 ransferred to Urban Stormwater Manageme	actice certification and cost share payment.  ent.  enothing else scheduled. If we do have something				

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	Activity Action - Justin Wilson							
	Practice		558 - Roof Runoff Management	Count of Activities		1		
	Description Proposed Size / Units Actual Size/Units		Gutters for clean water diversion out	outters for clean water diversion out of feedlot.				
			1.00 COUNT	Lifespan Installed Date			10 Years 29-Jun-16	
			1.00 COUNT					
	Mapped Activ	ities	1 Point(s)					
Final Indicator for	r Justin Wilson							
<b>Indicator Name</b>		PHOSPHO	ORUS FEEDLOT (EST. REDUCTION)		Value	5		
<b>Indicator Subcate</b>	Indicator Subcategory/Units MinnFARI		M LBS/YR Calculation Tool MINNFARM		NFARM			
Waterbody South Line		dstrom Lake						

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#### **Grant Activity - Non-Structural Management Practices**

#### Description

Category
Start Date

Has Rates and Hours?
Actual Results

Task 3: Non-Structural Management Practices – Provide incentive payments for rural BMPs including cover crops, nutrient management, no-till farming, permanent vegetation plantings. Payment rates not to exceed current USDA payment rates. Provide incentive payments to the cities of Lindstrom, Center City, and Chisago City for targeted urban street sweeping. Payment rate \$200-400 per curb mile. Our goal is to reduce phosphorus by a combined 100 pounds per year.

#### NON-STRUCTURAL MANAGEMENT PRACTICES

9-Jun-15 End Date 22-Oct-19

No

January 19, 2016

SWCD staff have contacted city administrators of various cities within the county about a street sweeping incentive payment. No city has agreed to anything. SWCD staff have contacted ag producers to discuss incentive payments for notill or cover cropping. There has been some interest, but at this point no one has agreed to a contract.

April 7, 2016

"BWSR has determined for your FY15 CWF Targeted Watershed Demo grant that the "permanent hay" practice as prescribed by the NRCS practice standard which can include non-native species is an eligible practice with caveats (see original email).

April 11, 2016

"BWSR has determined that the use of this FlexStorm product with the proposed (appropriate) level of inspection and maintenance is an eligible practice for the FY15 Targeted Watershed grant. We advise that ultimately these types of products be part of a treatment train of practices to maximize their pollutant reduction effectiveness and reduce frequency of required maintenance. If possible please track required maintenance frequency and pounds of sediment so that we can assess the viability of the product and its applicability for other urban settings.

November 8, 2016

Max Gustafson's hay planting was completed in early 2016 and the SWCD Board approved reimbursement. The Center City Council has approved installing 8 to 10 inlet protection units in the city. The City of Lindstrom Council approved enhanced street sweeping. They are currently doing increased fall sweeping.

January 9, 2017

City of Lindstrom has been reimbursed for enhanced street sweeping of 11 miles.

**WORK PLAN AMENDMENT** 

Approved by Brad Wozney 1/6/2017

Transfer \$8,273.24 to Urban Stormwater Management. We currently have one completed project and two incentive contracts that have two years left of payment. We do not anticipate any additional contracts.

Continued in attachments.

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	Activity Action - Max Gustafson Hay Planting							
	ACTIVITY ACTION - IVIAX GUSTAISON HAY PIANTING							
	Practice		329B - Conservation Tillage	Count of Activities			1	
	Description		Forage and biomass planting (512). S	Forage and biomass planting (512). Soil loss before 10.0 ton/ac; after 0.54 ton/ac.				
	Proposed Size / Units Actual Size/Units		8.00 AC	Lifespai	1		10 Years	
			8.00 AC	Installed Date			27-Apr-16	
	Mapped Activ	ities	1 Polygon(s)					
Final Indicator for	r Max Gustafso	n Hay Plai	nting					
Indicator Name		SOIL (EST.	. SAVINGS)		Value	9.45		
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	RUSL	.E2 (UPDATED)	
Waterbody		South Cen	nter Lake					
	Activity Action	- Lindstro	m Enhanced Street Sweeping					
	D 11		EOO. N. I de el NA escretado	C 4	C A -4::4:		4	

	Activity Action - Lindstrom Enhanced Street Sweeping									
	Practice		590 - Nutrient Management Count of Activi		of Activities	1				
	Description Proposed Size / Units Actual Size/Units		Approximately 10 additional curb miles of sweeping per year over three years in the City of Lindstrom.							
			158,400.00 LINEAR FEET Lifespan		n	5 Years				
			LINEAR FEET	Installe	lled Date					
	Mapped Activities		1 Polygon(s)							
Final Indicator for Lindstrom Enhanced Street Sweeping										
Indicator Name SED		SEDIMENT	MENT (TSS)		Value	1.5				
Indicator Subcategory/Units		WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR			Calculation Tool	Other				
Waterbody		South Lindstrom Lake								
Final Indicator for Lindstrom Enhanced Street Sweeping										
Indicator Name PHOS		PHOSPHO	SPHORUS (EST. REDUCTION)		Value	90				
Indicator Subcategory/Units		WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR			Calculation Tool	Other				
Waterbody South Li			ndstrom Lake							
Final Indicator for Lindstrom Enhanced Street Sweeping										
Indicator Name NITROGE		NITROGEN	N		Value	)				
Indicator Subcategory/Units		WATER PO	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool Other					
Waterbody South			th Lindstrom Lake							

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	Activity Action - Center City Inlet Protection									
	Practice		590 - Nutrient Management	Count of Activities			1			
	Description		Flexstorm inlet protection bags to capture sediment before it enters the catch basin. Incentive payment for 3							
			years.							
	Proposed Size / Units		8.00 COUNT	Lifespan		5 Years				
	Actual Size/Units		COUNT	Installed	alled Date					
	Mapped Activities		1 Polygon(s)							
Final Indicator for Center City Inlet Protection										
Indicator Name		PHOSPHORUS (EST. REDUCTION)			Value	5				
Indicator Subcategory/Units		WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR			Calculation Tool	Other				
Waterbody		South Center Lake								
Final Indicator for Center City Inlet Protection										
Indicator Name SE		SEDIMEN	SEDIMENT (TSS)		Value	5				
Indicator Subcategory/Units V		WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR			Calculation Tool	Other				
Waterbody		South Cer	South Center Lake							

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## **Grant Activity - Project Development**

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### Description

Task 1:Project Kickoff Meetings (20%)

- Urban-Host kickoff meeting for urban residents and City Councils/staff.
- Rural-Host kickoff meeting for rural residents and Township officials.

Task 2: Marketing – Develop watershed-wide marketing materials (press releases, brochures, displays, presentations, and website pages). Target impaired lakes first. (40%)

- •Urban: Initiate regular educational presentation series to educate residents about water quality issues. Distribute brochures at Chisago Lakes area events in coordination with the CL LID.
- •Rural/Ag: Publish newspaper articles about rural BMPs and programs available through the SWCD/NRCS.

Task 3: Direct Landowner Contact – Send mailings, contact landowners, meet with landowners, discuss potential projects/ideas with landowners and partners. (40%)

- •Urban: Use urban Stormwater Retrofit Assessments (SRAs) for Lindstrom, Center City, and Chisago City to identify priority projects to begin landowner contact. Target projects in catchments that drain to impaired lakes. Host neighborhood-specific meetings to describe potential projects and meet landowners in project area. Approach City officials to develop a targeted street-sweeping incentive program for specific neighborhoods within each city.
- •Rural/Ag: Use rural SRAs for North Center, South Center, Chisago, and North Lindstrom/South Lindstrom/Green lakes to identify priority projects to begin landowner contact. Target projects in catchments that drain to impaired lakes. Send targeted mailings to landowners in prime locations for project implementation. Use list of fields that should be converted to Permanent Vegetation (from rural SRAs) to approach landowners with an incentive payment to implement BMPs such as permanent vegetation, no-till farming, etc. on specific fields.
- Person(s) Responsible: Craig Mell, Sue Humble, Casey Thiel, Mary Jo Youngbauer, Farm Bill Technician (to-be-hired), Deb Hermel, Jason Rehn

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Category	PROJECT DEVELOPMENT								
Start Date	21-Mar-15	End Date	22-Oct-19						
Has Rates and Hours?	Yes								
Actual Results	targeted neighborhoods for projects. Met with	As of May 19, 2015 Taught rain garden class at Master Gardeners Expo on 3/21/15. Sent out mailing for urban kickoff meeting, as well as targeted neighborhoods for projects. Met with over 20 individual landowners.							
	As of January 19, 2016 Mailed 40 letters to top 50 priority rural project letters for urban priority projects at Calendar I and Peninsula Avenue in Lindstrom. Mailed 12 Targeted Watershed/MRBI program. Met with Bloom, Brian and Bruce Olson, Max Gustafson, neighborhoods, along the Nelson Court gully a develop projects in all of these areas.	sle in Lindstrom, Catchment L-42 in Linds 25 letters to farmers in the watershed about In landowners Craig Peltier, Kent Reed, Joh I, and with landowners within the Mobeck	trom, Nelson Lane in Center City, out benefits of soil health and the nn Lelwica, David and Nelson Avenue and Busch Avenue						
	As of November 8, 2016 Met with landowners Nelson Bloom, David The for 2017.  As of January 9, 2017 Staff has met with landowners and visited sites South in Center City.								

Grant Activity - Quintin Letourneau TW AG 15-18									
Description	Description Funds will be used to help implement agricultural BMPs.								
Category	AGRICULTURAL PRACTICES	AGRICULTURAL PRACTICES							
Start Date	11-Sep-18	End Date	12-Dec-18						
Has Rates and Hours?	No								
Actual Results	A water and sediment control basin and a gras	A water and sediment control basin and a grassed waterway were installed at Quintin Letourneau's farm. The project also							
	used Targeted Watershed funds in the amoun	t of \$1,656 and LID matching funds in the	amount of \$3,500.						

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#### **Grant Activity - Regulations/Ordinances/Enforcement**

Description

Category
Start Date

Has Rates and Hours?
Actual Results

Task 4: Regulations/Ordinances/Enforcement – Work with cities of Lindstrom, Center City, and Chisago City to adopt the MIDS ordinance package. Offer the cities a reduced rate to hire the Chisago SWCD to provide construction inspection to ensure enforcement of the MIDS ordinances.

REGULATIONS/ORDINANCES/ENFORCEMENT

19-Jan-16 End Date 13-Jan-17

Yes

As of January 19, 2016

This part of the grant has not been started yet. Work is expected in this area in the upcoming year(s).

February 19, 2016

WORK PLAN AMENDMENT

Approved via email by Brad Wozney 2/10/2016

The City of Lindstrom has adopted the MIDS package without involvement from the SWCD; Center City is near adoption and does not need any additional assistance from the SWCD; Chisago City still has work to do before the package is adopted. Work with Chisago City to guide them through adopting the package will continue as needed.

The SWCD will use the funds allocated to this activity to promote an education campaign in Lindstrom and Center City (upon adoption of MIDS) for responsible yard-waste clean up. Casey Thiel, Water Resource Specialist will be the primary staff member for this project. Activities will include press releases, pamphlets, targeted mailings to high priority neighborhoods, utility bill inserts, web page and social media information, and coordination with local groups to promote storm drain stenciling. Casey will work with the Chisago Lakes LID and city staff to tailor educational material to their specific needs. The City of Lindstrom has expressed interest in creating and adopting an ordinance that follows water quality BMPs for yard waste in addition to the educational outreach described above.

As of January 9, 2017

WORK PLAN AMENDMENT

Approved by Brad Wozney 1/6/2017

All funding, including grant and match money, has been moved to Urban Stormwater Management. The Chisago Lakes Lake Improvement District has taken the financial lead in finalizing the MIDS program throughout the watershed. So far the City of Lindstrom has adopted the MIDS program and Chisago City and Center City are working to adopt them in the near future.

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# **Grant Activity - Soil Erosion - 2017 Cost Share/Incentive Urban BMPs** Description Chisago County Local Water Management Plan, page 58, number 1 states, "Implement projects that will help meet the goals of the Lake St. Croix TMDL watershed implementation plan. Actively market local/state/federal conservation programs which provide incentives to landowners to stabilize erosion concerns. Chisago County Local Water Management Plan, page 63, number 24 states, "Implement agricultural best management practices for soil health that increase crop productivity and profitability while improving the environment. Best management practices include: cover crops, reduced tillage practices, conservation crop rotation, nutrient and pest management, and rotational grazing. The Chisago SWCD will use these cost share funds to install BMPs, promote soil health programs, and native grass/pollinator plantings in areas of the County where we currently do not have other state/local cost share programs URBAN STORMWATER MANAGEMENT PRACTICES Category **Start Date** 11-Sep-18 **End Date** 13-Nov-18 **Has Rates and Hours?** No **Actual Results** Nothing to report at this time. Work plan amendment: The budget was reduced in the cost share categories and the technical in order to increase the budget in the administrative category and to purchase a new vehicle (equipment category). As of January 8, 2019 Funds in the amount of \$5,205.65 were used towards the Center City Lakefront Rain Garden project. This project also had \$1,342.35 of FY15 Targeted Watershed program funds and \$3,000 of Chisago Lakes LID match funds. The pollution reduction values and practice mapping for this project are completed under the Targeted Watershed grant.

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## **Grant Activity - Technical/Engineering**

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#### Description

Objective 3: Technical/Engineering

Task 1: Project Survey and Design – Assessment of BMP needs, whole farm planning, urban catchment planning, survey of structural BMPs, development of project designs, and assistance to landowners for other funding opportunities. The NRCS Field Office Technical Guide and the Minnesota Stormwater Manual will be utilized as the design standards for all projects.

- Urban Design: Survey and design completed by Casey Thiel and Mary Jo Youngbauer. Design review and sign off completed by Casey Thiel, Mary Jo Youngbauer, or James Landini (Washington Conservation District). For City projects, the City Engineer may be used to review and sign off on designs.
- Rural Design: Survey work completed by Mike Mayer, PE (MM Engineering, Inc.), new farm bill technician (to-be-hired), NRCS staff members Jason Rehn, Deb Hermel, or Marvin Kunkel. In some cases, other SWCD staff members (Craig Mell, Casey Thiel, Mary Jo Youngbauer) may help with survey work. Design work completed by Mike Mayer, PE (MM Engineering, Inc.), new farm bill technician (to-be-hired), and NRCS staff members Jason Rehn or Marvin Kunkel.

  Task 2: Project Construction Inspection and Certification Authorized staff will complete construction inspection and certify project as completed per designs.
- Person(s) Responsible:

Craig Mell, District Administrator – see TAA documentation in eLINK
Casey Thiel, Water Resource Specialist – see TAA documentation in eLINK
Mary Jo Youngbauer, Water Resource Technician – see TAA documentation in eLINK
New SWCD Employee (to be hired in 2015, credentials unknown at this time)
NRCS Staff, including Technical staff and Professional Engineers
NPEAP In-House Engineer (James Landini, PE, Washington Conservation District)
Michael Mayer, Professional Engineer

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Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	23-Mar-15	End Date	22-Oct-19
Has Rates and Hours?	Yes		
Actual Results	May 19, 2015		
	Plans reviewed for Erickson, CR 20, Peters, and	d Eichten projects. Draft design started f	or Mobeck Avenue neighborhood
	rain gardens in Center City.		
	January 19, 2016		
	Designs completed for Mobeck Avenue, Busch	Avenue, Nelson Court Gully, and Swens	on's Lake House Restaurant.
	Construction inspection and check out comple	ted for construction projects (Mobeck A	venue, Busch Avenue, Nelson Court
	gully, Chisago County Government Center emp	ployee parking lot, Swenson's Lake House	e restaurant, Matt Erickson, Tony
	Peters, Pat Eichten, and County Road 20 gully	• •	pleted for Bayview Ponds, Center
	Avenue rain gardens, Olson vegetated swale, a	and Nelson Court shoreline project.	
	As of November 8, 2016		
	Plans, installation, and certification completed	· · · · · · · · · · · · · · · · · · ·	
	Scott Lund Whispering Bay, and the Chisago La	akes High School. Design is complete for	John Lelwica.
	As of January 9, 2017		
	Construction checkout completed for Lelwica.	Design work started for David Thompso	n, Pat Eichten, Lee Nelson, and
	Nelson Bloom for 2017 installation.		
	As of January 4, 2018		
	Designs are in progress for Lee Nelson, Carl Lin		
	and Letourneau. These will be 2018 projects.	·	7. 7.
	Lane South, Nelson Bloom, David Thompson, I		
	January 8, 2019. Project certification complet		
	Peterson projects. Project for Virginia Mitchel		
	March April 2019. 4 Ag projects are designed, Eichten (Mom's), Pat Eichten (Jensen), Craig N		
	See eLink attachment October 22, 2019	iattson, and Dale Freden will all be ilistal	ieu tilis sedsuli.

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#### **Grant Activity - Urban Stormwater Management Practices**

#### Description

Category
Start Date

Has Rates and Hours?
Actual Results

Task 5: Urban Stormwater Management Practices – Our goal is to utilize our completed urban stormwater retrofit assessments to identify and install approximately 40 urban BMPs (including rain gardens, vegetated swales, rock-lined channel, iron-enhanced sand filter, dry pond, pond retrofits, gully stabilization, etc.) to reduce total phosphorus by 50 pounds per year.

#### URBAN STORMWATER MANAGEMENT PRACTICES

15-May-15 End Date 22-Oct-19

No

As of May 19, 2015 Funds encumbered and design completed for Swenson's Lakehouse rain garden project. Construction expected in June.

As of December 4, 2015

Construction complete on Swenson's Lakehouse rain garden, Chisago County Government Center employee parking lot pervious asphalt, and Nelson Court gully stabilization projects. Funds encumbered and construction began on Mobeck Avenue and Busch Avenue.

As of January 19, 2015

Major construction activities were finished on Mobeck Avenue and Busch Avenue projects. Minor activities such as edging, mulching, and planting the rain gardens will be completed in the spring of 2016. Partial payments were issued for the portion of the work that has been completed so far on both projects.

As of November 8, 2016 Mobeck and Busch Avenue projects were wrapped up in the spring. Final payment was issued. Chisago Lakes High School pond retrofit, Olinda Trail gully stabilization, and Whispering Bay Resort gully stabilizations were completed. The SWCD Board has approved certification and cost share payment on these projects.

As of January 13, 2017 WORK PLAN AMENDMENT Approved by Brad Wozney 1/6/2017

Transfer of \$52,883.24 into this category from Livestock Waste Management (\$18,000), Non-Structural Management (\$8,273.24), Regulations/Ordinances/Enforcement (\$5,000), Wetland Restoration/Creation (\$21,610).

As of January 4, 2018 Construction, certification, and reimbursement is complete for Nelson Lane South, Maple Street Gully, Novotny Gully, and Pioneer Lake outlet projects. The Chisago Lakes LID has increased their matching funds for a total match in the urban category of \$94,000. The City of Center City provided unexpected additional matching funds in the amount of \$14,535.83 for the Pioneer Lake Outlet project.

As of January 8, 2019 Construction, certification, and reimbursement complete for Center City lakefront rain garden. Designs are underway for Chisago Lakes High School and Newell Alley in Lindstrom.

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	Activity Action	ı - TW SRA	15-1 Swenson's Lakehouse				
	Practice		712M - Bioretention Basin	Count o	f Activities		1
	Description		Rain garden	Rain garden			
	Proposed Size	/ Units	0.04 AC	Lifespar	n		10 Years
	Actual Size/Ur	nits	0.04 AC	Installe	d Date		16-Jul-15
	Mapped Activ	ities	1 Point(s)				
Final Indicator fo	r TW SRA 15-1	l Swenson'	s Lakehouse				
Indicator Name		SEDIMEN	T (TSS)		Value	0.08	
<b>Indicator Subcate</b>	gory/Units	WATER P	OLLUTION (REDUCTION ESTIMATES)	TONS/YR	Calculation Tool	MID:	S
Waterbody		North Ce					
Final Indicator fo	r TW SRA 15-1	Swenson'	s Lakehouse				
<b>Indicator Name</b>			REDUCED (ACRE-FEET/YEAR)		Value	0.41	
<b>Indicator Subcate</b>	gory/Units		ATER MANAGEMENT ACRE-FEET/YR Calculation Tool MIDS			S	
Waterbody		North Ce					
Final Indicator fo	r TW SRA 15-1						
<b>Indicator Name</b>			ORUS (EST. REDUCTION)		Value	0.65	
<b>Indicator Subcate</b>	gory/Units		OLLUTION (REDUCTION ESTIMATES) I	_BS/YR	Calculation Tool	MID:	S
Waterbody		North Cei	nter Lake				
	Activity Action	TWCDA	15.2 Nologo Count Cully				
	Activity Action	1 - I W SKA	15-3 Nelson Court Gully				
	Practice		412 - Grassed Waterway and	Count o	f Activities		1
			Swales				
	Description						
	<b>Proposed Size</b>	/ Units	300.00 LINEAR FEET	Lifespar	n		10 Years
	Actual Size/Ur	nits	300.00 LINEAR FEET	Installe	d Date		20-Aug-15
	Advanced Australia		4.0.1				-

	Proposed Size / Units		300.00 LINEAR FEET	Lifespan		10 Years	
	Actual Size/U	nits	300.00 LINEAR FEET	Installed	Date		20-Aug-15
	Mapped Activ	vities	1 Polygon(s)				
Final Indicator	for TW SRA 15-	3 Nelson Co	ourt Gully				
<b>Indicator Nam</b>	e	PHOSPHO	RUS (EST. REDUCTION)		Value	14.3	
Indicator Subc	ategory/Units	WATER P	OLLUTION (REDUCTION ESTIMATES) I	LBS/YR	Calculation Tool		R CALC (GULLY SILIZATION)
Waterbody		Pioneer L					
Final Indicator	for TW SRA 15-	3 Nelson Co	ourt Gully				
Indicator Name SEDIMEN		SEDIMEN'	T (TSS)	(TSS) Value		14.3	
Indicator Subcategory/Units WATER P		OLLUTION (REDUCTION ESTIMATES)	TONS/YR	Calculation Tool		R CALC (GULLY SILIZATION)	

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Pioneer Lake

	Practice		804M - Permeable Surfaces	Count	of Activities		1
	Description		Permeable asphalt 216' x 38'				
	<b>Proposed Size</b>	/ Units	0.19 AC	Lifespa	n		10 Years
	Actual Size/Ur	nits	0.19 AC	Installe	d Date		5-Oct-15
	Mapped Activ	ities	1 Polygon(s)				
Final Indicator fo	or TW SRA 15-2	Chisago C	County Government Center empl	oyee parking	g lot pervious asphalt		
Indicator Name		SEDIMEN	T (TSS)		Value	258	
Indicator Subcate	egory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TONS/YR Calculation Tool		Calculation Tool	MID:	S
Waterbody		North Cer	nter Lake				
Final Indicator fo	r TW SRA 15-2	Chisago (	County Government Center empl	oyee parking	g lot pervious asphalt		
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	0.86	
Indicator Subcate	egory/Units	WATER PO	<b>DLLUTION (REDUCTION ESTIMATES</b>	S) LBS/YR	Calculation Tool	MID:	5
Waterbody North Center Lake			nter Lake				

	Activity Action - TW SRA 15-5 Mobeck Avenue (S Center Lake)						
	Practice		712M - Bioretention Basin	Count of Activities			2
	Description		2 rain gardens in an old neighborhood	d without	storm sewer		
	Proposed Size	/ Units	0.50 AC	Lifespai	n		10 Years
	Actual Size/Ur	nits	0.05 AC	Installe	d Date		18-May-16
	Mapped Activ	ities	2 Point(s)				
Final Indicator for	r TW SRA 15-5	Mobeck A	venue (S Center Lake)				
Indicator Name		PHOSPHO	DRUS (EST. REDUCTION)		Value	0.55	
<b>Indicator Subcate</b>	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LBS/YR		Calculation Tool	MIDS	
Waterbody		South Cer					
Final Indicator for	r TW SRA 15-5	Mobeck A	Avenue (S Center Lake)				
<b>Indicator Name</b>		VOLUME	REDUCED (ACRE-FEET/YEAR)		Value	0.44	
<b>Indicator Subcate</b>	gory/Units	STORMW	ATER MANAGEMENT ACRE-FEET/YR		Calculation Tool	MIDS	
Waterbody		South Cer	iter Lake				
Final Indicator for TW SRA 15-5 Mobeck Aven			Avenue (S Center Lake)				
<b>Indicator Name</b>		SEDIMEN	Γ (TSS)		Value	0.06	
<b>Indicator Subcate</b>	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	MIDS	5
Waterbody		South Cer	iter Lake				

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	Activity Action - TW SRA 15-4 Busch Avenue					
	Practice		712M - Bioretention Basin	Count of	Activities	4
	Description		4 rain gardens			
	Proposed Size	/ Units	0.07 AC	Lifespan		10 Years
	Actual Size/Un	its	0.07 AC	Installed	Date	18-May-16
	Mapped Activi	ties	4 Point(s)			
Final Indicator for	TW SRA 15-4	Busch Ave	enue			
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	1.05
Indicator Subcateg	gory/Units	WATER PC	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool	MIDS
Waterbody		South Cen				
Final Indicator for	TW SRA 15-4	Busch Ave	enue			_
Indicator Name		SEDIMENT	• •		Value	0.12
Indicator Subcateg	gory/Units		DLLUTION (REDUCTION ESTIMATES) TO	NS/YR	Calculation Tool	MIDS
Waterbody		South Cen				
Final Indicator for	TW SRA 15-4					_
Indicator Name	/FT •/		REDUCED (ACRE-FEET/YEAR)		Value	0.7
Indicator Subcateg	gory/Units		·		MIDS	
Waterbody		South Cen	ter Lake			
	Activity Action	- TW SRA 1	L5-5 Mobeck Avenue (N Center Lake)			
	Practice		712M - Bioretention Basin	Count of	Activities	1
	Description		1 rain garden			
	Proposed Size	/ Units	0.02 AC	Lifespan		10 Years
	Actual Size/Un	its	0.02 AC	Installed	Date	18-May-16
	Mapped Activi	ties	1 Point(s)			
Final Indicator for	TW SRA 15-5	Mobeck A	venue (N Center Lake)			
Indicator Name		VOLUME F	REDUCED (ACRE-FEET/YEAR)		Value	0.29
ndicator Subcateg	gory/Units		ATER MANAGEMENT ACRE-FEET/YR		Calculation Tool	MIDS
Waterbody		North Cen				
	TW SRA 15-5		venue (N Center Lake)			
Indicator Name			RUS (EST. REDUCTION)		Value	0.24
ndicator Subcategory/Units WATER F		WATER PC	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	<b>Calculation Tool</b>	MIDS

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North Center Lake

Waterbody

Final Indicator for TW SRA 15-5 Mobeck Avenue (N Center Lake)								
Indicator Name SEDIMENT (TSS) Value 0.02								
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS					
Waterbody	North Center Lake							

	Activity Action	- TW SRA :	15-6 CLHS Pond Retrofit				
	Practice		155M - Storm Water Retention	Count o	f Activities		1
			Basins				
	Description		The existing storm water catch basin	was retro	fitted so that water from Oline	da Tra	il enters the existing
			stormwater pond on the property of	the Chisag	go Lakes High School. The out	let of	the pond was modified to
			reduce the orifice size to achieve grea	ater pollut	ion reduction.		
	Proposed Size	/ Units	1.00 COUNT	Lifespan			10 Years
	Actual Size/Un	its	1.00 COUNT	Installed	l Date		26-Aug-16
	Mapped Activi	ities	1 Point(s)				
Final Indicator for	r TW SRA 15-6	CLHS Por	nd Retrofit				
<b>Indicator Name</b>	Indicator Name PHOSPHO		RUS (EST. REDUCTION)		Value	2.4	
<b>Indicator Subcate</b>	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) LB	S/YR	Calculation Tool	WINS	SLAMM
Waterbody South Cer		South Cen	iter Lake				

	Activity Action - TW SRA 15-7 Olinda Trail Gully Stabilization						
	Practice		638 - Water and Sediment Control	Count o	f Activities		1
			Basin				
	Description		Gully stabilization project using check	k dams, er	osion control fabric, and a roo	cked o	utlet.
	<b>Proposed Size</b>	/ Units	500.00 LINEAR FEET	Lifespar	1		10 Years
	Actual Size/Ur	nits	500.00 LINEAR FEET	Installed Date		5-Oct-16	
	Mapped Activ		1 Point(s)				
Final Indicator for	r TW SRA 15-7	' Olinda Tr	ail Gully Stabilization				
<b>Indicator Name</b>		PHOSPHO	DRUS (EST. REDUCTION)		Value	25.6	
<b>Indicator Subcate</b>	gory/Units	WATER PO	DLLUTION (REDUCTION ESTIMATES) LB	SS/YR	Calculation Tool	BWS	R CALC (GULLY
						STAB	BILIZATION)
Waterbody		South Cen					
Final Indicator for	r TW SRA 15-7	Olinda Tr	ail Gully Stabilization				
Indicator Name		VOLUME I	REDUCED (ACRE-FEET/YEAR)		Value	2.2	
<b>Indicator Subcate</b>	gory/Units	STORMW	ATER MANAGEMENT ACRE-FEET/YR		Calculation Tool	P8 U	rban Catchment Model

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Waterbody	South Center Lake					
Final Indicator for TW SRA 15-7 Olinda Trail Gully Stabilization						
Indicator Name	SEDIMENT (TSS)	Value	25.6			
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY			
			STABILIZATION)			
Waterbody	South Center Lake					

	Activity Action	tion - TW SRA 15-8 Whispering Bay Gully Stabilization					
	Practice		638 - Water and Sediment Control	Count of Activities			1
			Basin				
	Description		Rock lined channel to stabilize gully				
	Proposed Size	/ Units	122.00 LINEAR FEET	Lifespan 10		10 Years	
	Actual Size/Ur	nits	122.00 LINEAR FEET	Installed Date		21-Oct-16	
	Mapped Activ	ities	1 Point(s)				
Final Indicator for	r TW SRA 15-8	<b>Whisperi</b>	ng Bay Gully Stabilization				
Indicator Name	or Name PHOSPHORUS (EST. REDUCTION)			Value	16.6		
Indicator Subcate	Indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR		BS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)		
Waterbody		South Cer	nter Lake				•
Final Indicator for	r TW SRA 15-8	<b>Whisperi</b>	ng Bay Gully Stabilization				
Indicator Name		SOIL (EST.	. SAVINGS)		Value	16.6	
Indicator Subcate	gory/Units	water pollution (reduction estimates) tons/yr		ONS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)
Waterbody	Vaterbody South Center Lake						
Final Indicator for	l Indicator for TW SRA 15-8 Whispering Bay Gully Stabilization						
Indicator Name	dicator Name SEDIMENT (TSS)			Value	16.6		
Indicator Subcate	gory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)
Waterbody		South Cer	nter Lake				

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_							
Act	tivity Action	- TW SRA	15-9 City of Center City Nelson Lane S	outh			
Pra	actice		468 - Lined Waterway or Outlet	Count o	f Activities		1
Des	scription		rock lined channel and vegetated sw	ale			
Pro	oposed Size	/ Units	180.00 LINEAR FEET	Lifespar	n		10 Years
Act	tual Size/Un	its	180.00 LINEAR FEET	Installe	ed Date		21-Apr-17
Ma	apped Activi	ties	1 Line(s)				
Act	tivity Action	- TW SRA	W SRA 15-9 City of Center City Nelson Lane South Swale				
Pra	actice		712M - Bioretention Basin	Count o	of Activities		1
Des	scription		vegetated swale				
Pro	oposed Size	/ Units 0.02 AC Lifespa				10 Years	
Act	tual Size/Un	its 0.02 AC Installe		ed Date 21-Apr-17		21-Apr-17	
Ma	apped Activi	Activities 1 Point(s)					
Final Indicator for TV	W SRA 15-9	5-9 City of Center City Nelson Lane South Swale					
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value 9.82		
Indicator Subcategory	Indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR		BS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)	
Waterbody		Pioneer La	ake			•	
Final Indicator for TV	V SRA 15-9	City of Co	enter City Nelson Lane South Swale				
Indicator Name				Value	9.82		
Indicator Subcategory	egory/Units WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR		ONS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)	
Waterbody	body Pioneer Lake						
	ndicator for TW SRA 15-9 City of Center City Nelson Lane South Swale						
Indicator Name		•	SAVINGS)		Value	9.82	
Indicator Subcategory	y/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) TO	ONS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)
Waterbody		Pioneer La	ake				

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	Activity Action - TW SRA 15-10 Lindstrom Maple Street Gully						
	Practice		468 - Lined Waterway or Outlet	Count o	f Activities		1
	Description		Gully re-shaping and stabilization pro	Gully re-shaping and stabilization project with rock checks, brush wattles, and permanent turf reinforcement			
			mat.				
	Proposed Size / Units		650.00 LINEAR FEET	Lifespan		10 Years	
	Actual Size/Ur	nits	650.00 LINEAR FEET	Installed	l Date		19-Oct-17
	Mapped Activ	tivities 1 Line(s)					
Final Indicator for	nal Indicator for TW SRA 15-10 Lindstrom Maple Street Gully						
<b>Indicator Name</b>	ndicator Name PHOSPHORUS (EST. REDUCTION)				Value	19.5	1
Indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR		BS/YR	Calculation Tool		SR CALC (GULLY BILIZATION)		
Waterbody North Lindstrom Lake							
Final Indicator for	al Indicator for TW SRA 15-10 Lindstrom Maple Street Gully						
Indicator Name		SEDIMENT (TSS)			Value	19.5	1
Indicator Subcate	gory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool		SR CALC (GULLY BILIZATION)	
Waterbody		North Lin	dstrom Lake				•

	Activity Action - TW SRA 15-11 Novotny Gully						
	Practice		468 - Lined Waterway or Outlet	Count o	f Activities		1
	Description		Gully stabilization project using rock and erosion control fabric.				
	Proposed Size / Units		225.00 LINEAR FEET	Lifespar	1		10 Years
	Actual Size/Units		225.00 LINEAR FEET	<b>Installed Date</b>		23-Oct-17	
	Mapped Activ	ities	ties 1 Line(s)				
Final Indicator for	inal Indicator for TW SRA 15-11 Novotny Gully						
Indicator Name	r Name PHOSPHORUS (EST. REDUCTION)		Value	8.16			
Indicator Subcate	ndicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR		SS/YR	Calculation Tool		R CALC (GULLY BILIZATION)	
Waterbody		North Cer	North Center Lake				
Final Indicator for	cator for TW SRA 15-11 Novotny Gully						
Indicator Name		SEDIMENT (TSS)		Value	8.16		
Indicator Subcate	gory/Units	, ,		ONS/YR	Calculation Tool		R CALC (GULLY BILIZATION)
Waterbody		North Cer	orth Center Lake				

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Activity Action - TW SRA 15-13 Chisago Lakes High School  Practice Description Proposed Size / Units Actual Size/Units Actual Size/Units Actual Size/Units Installed Date  Indicator For TW SRA 15-13 Chisago Lakes High School  WOLUME REDUCED (ACRE-FEET/YEAR) Value  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden  WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool Literature Value  Literature Value  Literature Value  Literature Value  Count of Activities  1  Description Linespan 10 Years 30-Jan-19  Installed Date 10-Jan-19  Value 1.33  Calculation Tool Other  Value Calculation Tool Other  Value Calculation Tool Other	I	Activity Action TW CDA		45 42 C				
The existing culvert that serves as the outlet of Pioneer Lake into North Center Lake was deteriorated and erosion was occurring. The culvert was replaced and a water treatment system was installed that will remove sediment, debris, organic matter, and both dissolved and particulate phosphorus.  Proposed Size / Units		Activity Action	1 - TW SKA	<u> </u>				
erosion was occurring. The culvert was replaced and a water treatment system was installed that will remove sediment, debris, organic matter, and both dissolved and particulate phosphorus.  Proposed Size / Units		Practice						
sediment, debris, organic matter, and both dissolved and particulate phosphorus.  Proposed Size / Units 1.00 COUNT Lifespan 25 Years Actual Size/Units 1.00 COUNT Installed Date 8-Dec-17  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-12 Center City Pioneer Lake Outlet  Indicator Name PHOSPHORUS (EST. REDUCTION) Value 38  Indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool Literature Value  North Center Lake  Activity Action - TW SRA 15-13 Chisago Lakes High School  Practice S87 - Structure for Water Control Description Underground stormtech chambers  Proposed Size / Units 333.00 COUNT Lifespan 10 Years  Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19  Mapped Activities 1 Point(s)  Inal Indicator for TW SRA 15-13 Chisago Lakes High School  Mapped Activities 1 Point(s)  Inal Indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YEAR) Value 1.33  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Description		The existing culvert that serves as the outlet of Pioneer Lake into North Center Lake was deteriorated and				
Proposed Size / Units				erosion was occurring. The culvert w	as replace	d and a water treatment syst	em wa	as installed that will remove
Actual Size/Units 1.00 COUNT Installed Date 8-Dec-17  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-12 Center City Pioneer Lake Outlet  indicator Name PHOSPHORUS (EST. REDUCTION) Value 38  indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool Literature Value North Center Lake  Activity Action - TW SRA 15-13 Chisago Lakes High School  Practice S87 - Structure for Water Control Count of Activities 1  Description Underground stormtech chambers  Proposed Size / Units 333.00 COUNT Lifespan 10 Years  Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School  indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33  OCUME REDUCED (ACRE-FEET/YEAR) Calculation Tool Other South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden				sediment, debris, organic matter, and		<u> </u>	orus.	
Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-12 Center City Pioneer Lake Outlet  indicator Name PHOSPHORUS (EST. REDUCTION) Value 38  indicator Subcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool Literature Value  North Center Lake  Activity Action - TW SRA 15-13 Chisago Lakes High School  Practice 587 - Structure for Water Control Description Underground stormtech chambers  Proposed Size / Units 333.00 COUNT Lifespan 10 Years  Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School  indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33  Other StormWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Proposed Size / Units		1.00 COUNT	_			25 Years
inal Indicator for TW SRA 15-12 Center City Pioneer Lake Outlet  Indicator Name		Actual Size/Ur	nits	1.00 COUNT	Installed	Date		8-Dec-17
Activity Action - TW SRA 15-13 Chisago Lakes High School  Proposed Size / Units Actual Size/Units Actual Size/Units Mapped Activities 1 Point(s)  Inal Indicator For TW SRA 15-13 Chisago Lakes High School  Mapped		Mapped Activ	ities	1 Point(s)				
Activity Action - TW SRA 15-13 Chisago Lakes High School  Proposed Size / Units 333.00 COUNT Installed Date 1 Point(s)  Inal Indicator for TW SRA 15-13 Chisago Lakes High School  WOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden  WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR Calculation Tool Literature Value  Literature Value  Literature Value  Literature Value  Literature Value  Literature Value  1 Description  Literature Value  1 Description Underground stormtech chambers  Proposed Size / Units 333.00 COUNT Lifespan 10 Years  30-Jan-19  Mapped Activities 1 Point(s)  Installed Date 30-Jan-19  Value 1.33  STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other  Vaterbody South Center Lake		· TW SRA 15-1	2 Center (	City Pioneer Lake Outlet				
Activity Action - TW SRA 15-13 Chisago Lakes High School  Practice Description Underground stormtech chambers Proposed Size / Units Actual Size/Units 333.00 COUNT Installed Date  10 Years 30-Jan-19  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School Indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden	<b>Indicator Name</b>							
Activity Action - TW SRA 15-13 Chisago Lakes High School  Practice		gory/Units		•	BS/YR	Calculation Tool	Liter	ature Value
Practice Description Underground stormtech chambers Proposed Size / Units 333.00 COUNT Lifespan 10 Years Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19 Mapped Activities 1 Point(s)  Inal Indicator for TW SRA 15-13 Chisago Lakes High School Indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33 Indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden	Waterbody		North Cer	nter Lake				
Practice Description Underground stormtech chambers Proposed Size / Units 333.00 COUNT Lifespan 10 Years Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19 Mapped Activities 1 Point(s)  Inal Indicator for TW SRA 15-13 Chisago Lakes High School Indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33 Indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden	Activity Action TW SDA 15 12 Chicago Lakes High School							
Description Underground stormtech chambers Proposed Size / Units 333.00 COUNT Lifespan 10 Years Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School Indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33 Indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Activity Action - Tw Ska 15-15 Chisago Lakes High School						
Proposed Size / Units 333.00 COUNT Lifespan 10 Years Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School  Indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33 Indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other  Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Practice		587 - Structure for Water Control	Count of	f Activities		1
Actual Size/Units 333.00 COUNT Installed Date 30-Jan-19  Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School  indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33  indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other  Vaterbody South Center Lake		Description		Underground stormtech chambers				
Mapped Activities 1 Point(s)  inal Indicator for TW SRA 15-13 Chisago Lakes High School  indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33  indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other  Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Proposed Size / Units		333.00 COUNT	_			10 Years
inal Indicator for TW SRA 15-13 Chisago Lakes High School  Indicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33 Indicator Subcategory/Units STORMWATER MANAGEMENT ACRE-FEET/YR Calculation Tool Other  Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Actual Size/Ur	nits	333.00 COUNT	Installed	Date		30-Jan-19
ndicator Name VOLUME REDUCED (ACRE-FEET/YEAR) Value 1.33 Indicator Subcategory/Units Vaterbody South Center Lake  Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		Mapped Activ	ities	1 Point(s)				
Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden  Calculation Tool  Other  Other	Final Indicator for	· TW SRA 15-1	13 Chisago	Lakes High School				
Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden	<b>Indicator Name</b>		VOLUME	REDUCED (ACRE-FEET/YEAR)			1.33	
Activity Action - TW SRA 15-14 Center City Lakefront Rain Garden		gory/Units		<del>.</del>		Calculation Tool	Othe	er
	Waterbody		South Cer	nter Lake				
	1	Activity Action	TW CDA	15 14 Contor City Lakefront Bain Gare	lon			
Practice 155M - Storm Water Retention Count of Activities 1		ACTIVITY ACTION - TW SKA		<u> </u>				
Truckies 155/W Storm Water Retention 5 Truckies 1		Practice		155M - Storm Water Retention	Count of	f Activities		1
Basins Basins				Basins				
Description Rain Garden 700 sq ft.				·				
Proposed Size / Units 0.01 AC Lifespan 10 Years					_			
Actual Size/Units 0.01 AC Installed Date 26-Oct-18		Actual Size/Ur	nits	0.01 AC	Installed	Date		26-Oct-18
Mapped Activities 1 Point(s)				1 Daint/a				

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Value

0.25

Final Indicator for TW SRA 15-14 Center City Lakefront Rain Garden

SEDIMENT (TSS)

**Indicator Name** 

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	P8 Urban Catchment Model		
Waterbody	North Center Lake				
Final Indicator for TW SRA 15-14 Center City Lakefront Rain Garden					
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.8		
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	P8 Urban Catchment Model		
Waterbody	North Center Lake				

	Activity Action - TW SRA 15-15 City of Lindstrom Newell-Hanson						
	Practice		155M - Storm Water Retention	Count	of Activities		1
			Basins				
	Description		Rain Garden 650 sq ft				
	Proposed Size / Units		0.01 AC	Lifespa	n		10 Years
	Actual Size/Ur	nits	0.01 AC	Installed Date		12-Jul-19	
	Mapped Activ	ities 1 Point(s)					
Final Indicator for TW SRA 15-15 City of Lindstrom Newell-Hanson							
Indicator Name SEDIMENT (TSS)			Value	.06			
Indicator Subcate	bcategory/Units WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR		Calculation Tool	MID	S		
Waterbody		South Lindstrom Lake					
Final Indicator fo	r TW SRA 15-1	15-15 City of Lindstrom Newell-Hanson					
Indicator Name		VOLUME	REDUCED (ACRE-FEET/YEAR)		Value	0.28	69
Indicator Subcate	gory/Units	STORMW	ATER MANAGEMENT ACRE-FEET/YR		Calculation Tool	Tool MIDS	
Waterbody			dstrom Lake				
Final Indicator fo	r TW SRA 15-1	15 City of Lindstrom Newell-Hanson					
Indicator Name		PHOSPHO	RUS (EST. REDUCTION)		Value	.591	
Indicator Subcate	egory/Units	WATER PO	OLLUTION (REDUCTION ESTIMATES) LI	BS/YR	Calculation Tool	MID	S
Waterbody		South Line	dstrom Lake				

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### **Grant Activity - Wetland Restoration/Creation** Task 6: Wetland Restoration/Creation – Utilize our completed rural Stormwater retrofit assessments to identify and install Description 3 partially drained, Type 1 or Type 2 wetland restorations for a combined total phosphorus reduction of 20 pounds per year. WETLAND RESTORATION/CREATION Category **End Date** 13-Jan-17 **Start Date** 17-Jun-15 **Has Rates and Hours?** No As of January 19, 2016 **Actual Results** A plan design has been completed for a wetland enhancement/restoration project for Bruce Olson. This is a small wetland that will be modified to hold more water, which will help filter stormwater runoff that currently runs straight through the wetland and causes a gully on the bluff above North Center Lake. As of November 8, 2016 Bruce Olson's wetland restoration was completed on August 12, 2016. The SWCD Board approved certification of the project and cost share payment. As of January 13, 2017 WORK PLAN AMENDMENT

Approved by Brad Wozney 1/6/2017

anticipate any additional projects.

Indicator

existing wetland at a time. neath a cabin and over the bluf
neath a cabin and over the blut
10 Years
3-Aug-16

Transfer balance of \$21,610 to Urban Stormwater Management. We have completed one project and currently do not

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Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		
Final Indicator for TW WET 15	-1 Bruce Olson		
Indicator Name	SOIL (EST. SAVINGS)	Value	1.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		
Final Indicator for TW WET 15	-1 Bruce Olson		
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY
			STABILIZATION)
Waterbody	North Center Lake		

### **Grant Attachments**

Document Name	Document Type	Description
2015 Targeted Watershed	Grant Agreement	2015 Targeted Watershed - Chisago SWCD
2015 Targeted Watershed executed	Grant Agreement	2015 Targeted Watershed - Chisago SWCD
Actual Results Continued	Grant	2015 - Targeted Watershed (Chisago SWCD)
Agreement with LID	Grant	2015 - Targeted Watershed (Chisago SWCD)
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/10/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/10/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/22/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/02/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/27/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/16/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/03/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/02/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/04/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/20/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/20/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/10/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/02/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/13/2017

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Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/09/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/10/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2016
Amendment	Grant	2015 - Targeted Watershed (Chisago SWCD)
Cost Share Contract	Grant	2015 - Targeted Watershed (Chisago SWCD)
<b>Email Chain Discussing Work Plan Amendment</b>	Grant	2015 - Targeted Watershed (Chisago SWCD)
Financial Report	Progress	Progress Dated - 10/22/2019
Financial Report 50%	Grant	2015 - Targeted Watershed (Chisago SWCD)
Financial Report December 2016	Grant	2015 - Targeted Watershed (Chisago SWCD)
<b>Gantt Chart</b>	Grant	2015 - Targeted Watershed (Chisago SWCD)
Goal Statement	Grant	2015 - Targeted Watershed (Chisago SWCD)
October 22, 2019	Grant	2015 - Targeted Watershed (Chisago SWCD)
Original Application	Grant	2015 - Targeted Watershed (Chisago SWCD)
Reconciliation Checklist	Journal	Journal Dated - 01/24/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/06/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 10/15/2019
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/14/2015
Work Plan Amendment Email Chain	Grant	2015 - Targeted Watershed (Chisago SWCD)

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