



Grant All-Detail Report Projects and Practices 2019

Grant Title - 2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation

Grant ID - C19-2674

Organization - Chisago SWCD

Original Awarded Amount	\$250,000.00	Grant Execution Date	3/5/2019
Required Match Amount	\$62,500.00	Original Grant End Date	12/31/2021
Required Match %	25%	Grant Day To Day Contact	Craig Mell
Current Awarded Amount	\$250,000.00	Current End Date	12/31/2022

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$250,000.00	\$250,000.00	\$0.00
Total Match Amount	\$63,500.00	\$81,312.16	\$-17,812.16
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$313,500.00	\$331,312.16	\$-17,812.16

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

Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Administration	Administration /Coordination	Current State Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementati..	\$10,000.00	\$13,428.50	12/13/2022	N
Agricultural Construction	Agricultural Practices	Current State Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementati..	\$88,000.00	\$71,550.39	12/16/2022	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Agricultural Construction	Agricultural Practices	Local Fund	CLLID	\$31,750.00	\$42,017.16	12/16/2022	Y
Non-Structural BMPs	Non-Structural Management Practices	Current State Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementati..	\$5,625.00	\$3,750.00	1/11/2022	N
Non-Structural BMPs	Non-Structural Management Practices	Local Fund	CLLID	\$1,875.00	\$1,250.00	1/11/2022	Y
Project Development	Project Development	Current State Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementati..	\$10,000.00	\$9,654.00	1/3/2022	N
Technical/Engineering	Technical/Engineering Assistance	Current State Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementati..	\$55,000.00	\$71,675.11	12/13/2022	N
Urban Construction	Urban Stormwater Management Practices	Current State Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementati..	\$81,375.00	\$79,942.00	11/8/2022	N
Urban Construction	Urban Stormwater Management Practices	Local Fund	CLLID	\$29,875.00	\$38,045.00	11/8/2022	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
712M - Bioretention Basin	1	1	800 SQUARE FEET	800 SQUARE FEET
712M - Bioretention Basin	1	1	600 SQUARE FEET	600 SQUARE FEET
638 - Water and Sediment Control Basin	1	1	801 LINEAR FEET	838 LINEAR FEET
516M: Enhanced Street Sweeping	1	1	75 COUNT	98 COUNT

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
468 - Lined Waterway or Outlet	1	1	650 SQUARE FEET	650 SQUARE FEET
468 - Lined Waterway or Outlet	1	1	0.1 AC	0.1 AC
468 - Lined Waterway or Outlet	1	1	26 LINEAR FEET	26 LINEAR FEET
412 - Grassed Waterway and Swales	1	1	8800 SQUARE FEET	8800 SQUARE FEET
410 - Grade Stabilization Structure	1	1	600 SQUARE FEET	600 SQUARE FEET
638 - Water and Sediment Control Basin	1	1	223 LINEAR FEET	223 LINEAR FEET
638 - Water and Sediment Control Basin	1	1	660 LINEAR FEET	683 LINEAR FEET

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Agricultural Construction	PHOSPHORUS (EST. REDUCTION)	75 LBS/YR	Chisago Lakes Chain of Lakes	BWSR CALC (GULLY STABILIZATION)	
Urban Construction	PHOSPHORUS (EST. REDUCTION)	50 LBS/YR	Chisago Lakes Chain of Lakes	MIDS	
Agricultural Construction	SEDIMENT (TSS)	75 TONS/YR	Chisago Lakes Chain of Lakes	BWSR CALC (GULLY STABILIZATION)	
Urban Construction	SEDIMENT (TSS)	50 TONS/YR	Chisago Lakes Chain of Lakes	MIDS	

Final Indicators Summary

Indicator Name	Total Value	Unit
PREVENTION	479.00	COUNT
SEDIMENT (TSS)	145.67	TONS/YR
PHOSPHORUS (EST. REDUCTION)	75.54	LBS/YR
SOIL (EST. SAVINGS)	136.56	TONS/YR

Grant Activity

Grant Activity - Administration		
Description	<p>Carry out administrative duties associated with executing the grant agreement, fulfilling reporting requirements, preparing contracts, tracking activities and hours, etc. Craig Mell, District Administrator will be responsible for activities including grant agreements, contracts, time tracking, and reporting to the SWCD Board. The Chisago SWCD Conservation Technician will be responsible for reporting.</p> <p>In partnership with the CLLID we hold a projects tour highlighting completed projects every one to two years. We plan on hosting a tour in 2019, during our tours we stop to highlight CWF projects for local officials and residents within the Chisago Lakes Chain of Lakes watershed.</p>	
Category	ADMINISTRATION/COORDINATION	
Start Date	10-Apr-19	End Date 27-Dec-22
Has Rates and Hours?	Yes	
Actual Results	<p>As of December 31, 2019 Admin work completed on enhanced street sweeping contract for Chisago City, creating vouchers and issuing checks. Grant coordination and reporting.</p> <p>As of April 2, 2020 Admin work on applications and encumbering funds for spring 2020 projects.</p> <p>As of July, 2020 Admin work on applications, cost share contracts and encumbering funds for spring/summer 2020 projects</p> <p>As of Jan.1, 2021 Admin work on applications, cost share contracts and encumbering funds for summer/fall 2020 projects</p> <p>As of April 1, 2021 Admin staff time spent on contracting projects for spring</p> <p>As of July 1, 2021 Admin staff time spent on contracting projects and grant budget</p> <p>As of Jan. 1, 2022 Admin staff time spent on contracting, grant budget and executing project amendments.</p> <p>As of July 1, 2022 Admin staff time spent on contracting, grant budget and reporting.</p> <p>As of December 27, 2022 Admin staff time spent on contracting, grant budget and reporting.</p>	

Description

Cost share funds for implementation of designed BMPs. Staff currently has preliminary designs for several projects in the watershed, including Eichten, Jensen, Fredell, Mattson, Reed and Dahlheimer. Practices on the design list include WASCObS, diversion, lined waterway, grade stabilization structure, and non structural practices such as cover crops, no-till farming, forage/biomass planting and nutrient management planning. NRCS Standards will be followed for all practices listed above.

Since 2014, numerous Ag BMPs have been installed in the watershed. With additional outreach we will continue to complete more projects. The first priority water resources targeted are N. & S. Center Lake, both are currently listed as impaired for nutrients. The second priority resources are Chisago Lake and Green Lake, both are currently meeting water quality standards, but are close to being impaired status. The lowest priority projects will target the remaining lakes within the Chisago Lakes Chain of Lakes watershed.

The overall cumulative goal of this grant (urban and ag) is to reduce the phosphorus loading by at least 125 pounds per year and sediment loading by at least 125 tons per year.

The landowner is responsible for soliciting bids for the project and for hiring a contractor. In some cases, the landowner signs a document that allows the Chisago SWCD to solicit bids on the landowners' behalf. When bids are received, the Chisago SWCD reviews them to ensure that the costs are reasonable and within the budget allotted for the project. The SWCD has a list of contractors that we have worked with on prior projects that the landowner can use if they choose. The landowner is also free to solicit bids from companies not on the list. Once the SWCD has approved bids as being acceptable and within the budget limits (or the landowner has agreed to pay any costs above and beyond the SWCD's project), the landowner makes the final decision on which bid to accept.

Category	AGRICULTURAL PRACTICES		
Start Date	10-Apr-19	End Date	27-Dec-22
Has Rates and Hours?	No		
Actual Results	<p>As of Jan.1, 2021 Maloney project was installed to reduce field erosion and stabilize gully erosion in woods.</p> <p>As of Jan. 1, 2022 No ag projects were installed but two projects were designed and being planned for 2022 install.</p> <p>As of July 1, 2022 One project was completed this spring to control field erosion. Another is planned for fall install.</p> <p>As of December 27, 2022 Last ag project, Prah, was completed in the fall and certified by NRCS. The Fladeboe, Weiss and Raedeke projects were moved from urban to ag construction to account for their rural location and the resource concern was coming from an ag/rural landscape even though the properties contain shoreline.</p>		

Activity Action - Maloney			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Less than 4ft tall, grassed		
Proposed Size / Units	801.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	838.00 LINEAR FEET	Installed Date	15-Dec-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	NRCS

Final Indicator for Maloney

Indicator Name	SOIL (EST. SAVINGS)	Value	40.41
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lakes watershed		

Final Indicator for Maloney

Indicator Name	SEDIMENT (TSS)	Value	4.73
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lakes Watershed		

Final Indicator for Maloney

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.73
-----------------------	-----------------------------	--------------	------

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lakes watershed		

Activity Action - Schultz			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	WASCOB and supporting practices installed to stop concentrated soil erosion.		
Proposed Size / Units	660.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	683.00 LINEAR FEET	Installed Date	20-May-22
Mapped Activities	1 Point(s)	Technical Assistance Provider	SWCD

Final Indicator for Schultz			
Indicator Name	SEDIMENT (TSS)	Value	4.37
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Final Indicator for Schultz			
Indicator Name	SOIL (EST. SAVINGS)	Value	28.05
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Final Indicator for Schultz			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.37
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Activity Action - Prahl			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	WASCOB and supporting practices installed to control field gully erosion.		
Proposed Size / Units	223.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	223.00 LINEAR FEET	Installed Date	13-Dec-22
Mapped Activities	1 Point(s)	Technical Assistance Provider	NRCS

Final Indicator for Prael			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.74
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		
Final Indicator for Prael			
Indicator Name	SOIL (EST. SAVINGS)	Value	5.74
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		
Final Indicator for Prael			
Indicator Name	SEDIMENT (TSS)	Value	5.74
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Activity Action - Fladeboe			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Cropland runoff Gully stabilization		
Proposed Size / Units	0.10 AC	Lifespan	10 Years
Actual Size/Units	0.10 AC	Installed Date	27-Oct-20
Mapped Activities	1 Line(s)	Technical Assistance Provider	TSA

Final Indicator for Fladeboe			
Indicator Name	SEDIMENT (TSS)	Value	5.15
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Spider Lake		
Final Indicator for Fladeboe			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.92
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Spider Lake		
Final Indicator for Fladeboe			
Indicator Name	SOIL (EST. SAVINGS)	Value	14.70

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Spider Lake		

Activity Action - Raedeke			
Practice	412 - Grassed Waterway and Swales	Count of Activities	1
Description	Rural upland runoff control		
Proposed Size / Units	8,800.00 SQUARE FEET	Lifespan	10 Years
Actual Size/Units	8,800.00 SQUARE FEET	Installed Date	1-Jun-22
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	TSA

Final Indicator for Raedeke

Indicator Name	SEDIMENT (TSS)	Value	9.45
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		

Final Indicator for Raedeke

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	10.87
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		

Final Indicator for Raedeke

Indicator Name	SOIL (EST. SAVINGS)	Value	9.45
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		

Activity Action - Weiss			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Rural upland runoff control		
Proposed Size / Units	650.00 SQUARE FEET	Lifespan	10 Years
Actual Size/Units	650.00 SQUARE FEET	Installed Date	9-May-22
Mapped Activities	1 Line(s)	Technical Assistance Provider	TSA

Final Indicator for Weiss			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.22
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		
Final Indicator for Weiss			
Indicator Name	SEDIMENT (TSS)	Value	4.54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		
Final Indicator for Weiss			
Indicator Name	SOIL (EST. SAVINGS)	Value	4.54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	North Center Lake		

Grant Activity - Non-Structural BMPs			
Description	Non-Structural BMPs include enhanced street sweeping, reduced tillage, and cover crops.		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	1-Mar-19	End Date	11-Jan-22
Has Rates and Hours?	No		
Actual Results	<p>As of December 31, 2019</p> <p>The City of Chisago City has completed 44 miles of enhanced street sweeping which prevented 320 lbs of P and 320 Tons of sediment from entering the watershed with two years left on the contract.</p> <p>As of December 31, 2021</p> <p>The City of Chisago City has completed 53 miles of enhanced street sweeping which prevented 159 lbs of P and 159 Tons of sediment from entering the watershed. This project is now complete. No enhanced street sweeping was payed for by this grant in 2020.</p>		

Activity Action - Enhanced Street Sweeping			
Practice	516M: Enhanced Street Sweeping	Count of Activities	1
Description	Grant paying for 25mi/yr		
Proposed Size / Units	75.00 COUNT	Lifespan	3 Years
Actual Size/Units	98.00 COUNT	Installed Date	11-Jan-22
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Enhanced Street Sweeping			
Indicator Name	PREVENTION	Value	479
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	Other
Waterbody	Chisago lakes watershed		

Grant Activity - Project Development

<p>Description</p>	<p>Chisago SWCD staff has reached out to many of the identified priority landowners and has developed projects with many of them. These funds will be used to continue outreach efforts and project development activities with landowners who have declined in the past, or for the next priority projects. Activities include sending letters, door-knocking, and meeting with landowners to discuss their concerns.</p> <p>Urban project tasks will be completed by Water Resource Specialist Casey Thiel and Conservation Technician (to be hired), who together have over 13 years of experience developing urban BMPs. Rural project tasks will be completed by District Technician Shane Hultman and District Administrator Craig Mell who have over 24 years of experience developing rural projects.</p>		
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>		
<p>Start Date</p>	<p>10-Apr-19</p>	<p>End Date</p>	<p>27-Dec-22</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>		
<p>Actual Results</p>	<p>As of December 31, 2019 2020 Project development</p> <p>As of April 2, 2020 First quarter 2020 project development reaching out to landowners.</p> <p>As of July, 2020 Working with landowners on upcoming projects</p> <p>As of Jan. 1, 2021 Working with landowners on Maloney and Pine View Shores projects</p> <p>As of July 1, 2021 Technical staff working on project design, survey and site visits</p> <p>As of Jan. 1, 2022 Technical staff working on project design, survey, site visits and coordinating construction for 2022 season.</p> <p>As of December 27, 2022 Technical staff working on project implementation, monitoring construction and project certification.</p>		

Grant Activity - Technical/Engineering

<p>Description</p>	<p>Development of final design plan set, construction staking, construction oversight, and check out of construction projects. Working with contractors to install the project as designed to meet specifications.</p> <p>Engineering and project certification will be provided by PE Rebecca Nestingen (Washington CD) and NRCS Engineer Technician Marvin Kunkel. The primary local technical and engineering assistance support will be provided by Chisago SWCD District Technician Shane Hultman, Water Resource Specialist Casey Thiel, Conservation Technician TBD, and USDA NRCS SCT Jason Rehn. For a complete list of JAA, contact the SWCD.</p>		
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>		
<p>Start Date</p>	<p>10-Apr-19</p>	<p>End Date</p>	<p>27-Dec-22</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>		
<p>Actual Results</p>	<p>As of December 31, 2019 Staff time on site visits, surveying and design work for 2020 projects.</p> <p>As of April 2, 2020 Engineering and technical assistance on ag and urban projects.</p> <p>As of July, 2020 Engineering and technical assistance on Maloney, Fladeboe, Pine View Shores, Reid, Raedeke, and Weiss projects</p> <p>As of Jan.1, 2021 Engineering and technical assistance on Maloney, Pine View Shores and Fladeboe projects and potential projects for 2021 install.</p> <p>As of July 1, 2022 Engineering and technical assistance on Weiss, Reid, Raedeke, Schultz and Prahll projects for 2022 install.</p>		

Description

Cost share funds for implementation of designed BMPs. Staff currently has preliminary designs for projects within the watershed, including Neal Ave, Calendar Isle and Hanson. Practices include rain gardens, vegetated swales, pervious pavement, gully stabilization, other urban practices, along with nonstructural practices such as enhance street sweeping and stormdrain inlet bags to capture and remove sediment.

Since 2011, great strides of been made with the installation of numerous urban BMPs in the watershed. With additional outreach we will continue to complete more projects. The first priority water resources targeted are North and South Center Lake, both of which are currently listed as impaired for nutrients. The second priority resources are Chisago Lake and Green Lake, both of which are currently meeting water quality standards, but are close to reaching an impaired status. The lowest priority projects will target the remaining lakes within the Chisago Lakes Chain of Lakes watershed.

The overall cumulative goal of this grant (urban and ag) is to reduce the phosphorus loading by at least 125 pounds per year and sediment loading by at least 125 tons per year.

The landowner is responsible for soliciting bids for the project and for hiring a contractor. In some cases, the landowner signs a document that allows the Chisago SWCD to solicit bids on the landowners' behalf. When bids are received, the Chisago SWCD reviews them to ensure that the costs are reasonable and within the budget allotted for the project. The SWCD has a list of contractors that we have worked with on prior projects that the landowner can use if they choose. The landowner is also free to solicit bids from companies not on the list. Once the SWCD has approved bids as being acceptable and within the budget limits (or the landowner has agreed to pay any costs above and beyond the SWCD's project), the landowner makes the final decision on which bid to accept.

Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	10-Apr-19	End Date	27-Dec-22
Has Rates and Hours?	No		
Actual Results	<p>As of Jan. 1, 2021 A gully stabilization project and raingarden project were installed.</p> <p>As of Jan. 1, 2022 No projects were installed but several are planned for 2022 install.</p> <p>As of April 1, 2022 Technical staff worked to design and coordinate projects for spring install. Staff time was billed to CLLID because the grant funds had been exhausted.</p> <p>As of July 1, 2022 Three lakeshore gullies were stabilized, reducing the amount of sediment and nutrients entering local lakes.</p> <p>As of December 27, 2022 Two projects were finished this fall. A gully stabilization and rain garden.</p>		

Activity Action - Pine View Shores			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	Raingarden to filter impervious surface and turf runoff before it enters South Center Lake		
Proposed Size / Units	600.00 SQUARE FEET	Lifespan	10 Years
Actual Size/Units	600.00 SQUARE FEET	Installed Date	9-Dec-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	TSA

Final Indicator for Pine View Shores			
Indicator Name	SEDIMENT (TSS)	Value	.016
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	South Center Lake		
Final Indicator for Pine View Shores			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.10
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	South Center Lake		

Activity Action - Reid			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Stabilize gully from hillside down to the lake		
Proposed Size / Units	600.00 SQUARE FEET	Lifespan	10 Years
Actual Size/Units	600.00 SQUARE FEET	Installed Date	1-Jun-22
Mapped Activities	1 Point(s)	Technical Assistance Provider	TSA

Final Indicator for Reid

Indicator Name	SOIL (EST. SAVINGS)	Value	31.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Final Indicator for Reid

Indicator Name	SEDIMENT (TSS)	Value	31.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Final Indicator for Reid

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	36.23
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Chisago Lake		

Activity Action - Pine View Shores Phase 2			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	rain garden next to storm pond		
Proposed Size / Units	800.00 SQUARE FEET	Lifespan	10 Years
Actual Size/Units	800.00 SQUARE FEET	Installed Date	2-Nov-22
Mapped Activities	1 Point(s)	Technical Assistance Provider	TSA

Final Indicator for Pine View Shores Phase 2

Indicator Name	SEDIMENT (TSS)	Value	78
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	MIDS
Waterbody	North Center Lake		

Final Indicator for Pine View Shores Phase 2

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.19
----------------	-----------------------------	-------	-----

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	MIDS
Waterbody	North Center Lake		

Activity Action - Swanson			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Block mat, erosion blanket and seeding to stabilize gully		
Proposed Size / Units	26.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	26.00 LINEAR FEET	Installed Date	5-Aug-22
Mapped Activities	1 Line(s)	Technical Assistance Provider	TSA

Final Indicator for Swanson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.17
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	South Center Lake		

Final Indicator for Swanson			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.17
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	South Center Lake		

Final Indicator for Swanson			
Indicator Name	SEDIMENT (TSS)	Value	2.17
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	South Center Lake		

Grant Attachments

Document Name	Document Type	Description
2019 Competitive Grant	Grant Agreement	2019 Competitive Grant - Chisago SWCD
2019 Competitive Grant EXECUTED	Grant Agreement	2019 Competitive Grant - Chisago SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/13/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/07/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/08/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/09/2023

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/09/2023
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/24/2023
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/27/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/05/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/05/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 10/05/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 07/14/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/06/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/10/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/29/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/04/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/02/2022
Application	Workflow Generated	Workflow Generated - Application - 08/28/2018
C19-2674 2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation CWF Grant Extension Request	Journal	Journal Dated - 07/23/2021
CL Chain of Lakes Implementation	Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation
Chisago SWCD NSLMP	Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation
Final Financial Report	Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation
Final Financial Report	Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation
Financial Report	Progress	Progress Dated - 04/06/2022
Non-Structural Land Management Policy	Grant	2019 Chisago Lakes Chain of Lakes Watershed BMP Implementation
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/08/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/27/2019
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/19/2018

