



Grant All-Detail Report Projects and Practices 2017

Grant Title - 2017 Rush Lake/Goose Lake TMDL Implementation Program

Grant ID - C17-4172

Organization - Chisago SWCD

Original Awarded Amount	\$250,000.00	Grant Execution Date	3/13/2017
Required Match Amount	\$62,500.00	Original Grant End Date	12/31/2019
Required Match %	25%	Grant Day To Day Contact	Craig Mell
Current Awarded Amount	\$250,000.00	Current End Date	5/15/2021

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$250,000.00	\$250,000.00	\$0.00
Total Match Amount	\$71,500.00	\$69,833.69	\$1,666.31
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$321,500.00	\$319,833.69	\$1,666.31

*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	2017 Rush Lake/Goose Lake TMDL Implementation Program	\$20,000.00	\$20,793.50	12/31/2020	N
Goose Lake Construction	Agricultural Practices	Current State Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program	\$52,000.00	\$27,819.31	8/13/2019	N
Goose Lake Construction	Agricultural Practices	Landowner Fund	Landowner Funds	\$22,500.00	\$16,141.48	8/13/2019	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Rush Lake Construction	Agricultural Practices	Current State Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program	\$78,000.00	\$90,290.90	5/19/2021	N
Rush Lake Construction	Agricultural Practices	Landowner Fund	Landowner Funds	\$30,000.00	\$42,091.47	5/5/2021	Y
Rush Lake Construction	Agricultural Practices	Local Fund	Rush Lake Improvement Association	\$19,000.00	\$11,600.74	5/19/2021	Y
Technical/Engineering	Technical/Engineering Assistance	Current State Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program	\$100,000.00	\$111,096.29	6/1/2021	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
362 - Diversion	3	3	422 LINEAR FEET	439 LINEAR FEET
468 - Lined Waterway or Outlet	1	1	185 LINEAR FEET	185 LINEAR FEET
638 - Water and Sediment Control Basin	2	2	945 LINEAR FEET	971 LINEAR FEET
638 - Water and Sediment Control Basin	1	1	351 LINEAR FEET	360 LINEAR FEET
638 - Water and Sediment Control Basin	1	1	356 LINEAR FEET	348 LINEAR FEET
342 - Critical Area Planting	2	2	0.6 AC	0.6 AC
638 - Water and Sediment Control Basin	1	1	225 LINEAR FEET	229 LINEAR FEET
638 - Water and Sediment Control Basin	1	1	145 LINEAR FEET	147 LINEAR FEET
638 - Water and Sediment Control Basin	3	3	1042 LINEAR FEET	1039 LINEAR FEET

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control Basin	1	1	472 LINEAR FEET	500 LINEAR FEET
600 - Terrace	1	1	1048 LINEAR FEET	1048 LINEAR FEET
468 - Lined Waterway or Outlet	1	1	1100 SQUARE FEET	1100 SQUARE FEET
638 - Water and Sediment Control Basin	1	1	270 LINEAR FEET	292 LINEAR FEET
638 - Water and Sediment Control Basin	1	1	146 LINEAR FEET	150 LINEAR FEET
638 - Water and Sediment Control Basin	2	2	271 LINEAR FEET	273 LINEAR FEET
410 - Grade Stabilization Structure	2	2	1 COUNT	1 COUNT
638 - Water and Sediment Control Basin	1	1	100 LINEAR FEET	103 LINEAR FEET

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	342.94	TONS/YR
SOIL (EST. SAVINGS)	475.79	TONS/YR
PHOSPHORUS (EST. REDUCTION)	314.36	LBS/YR

Grant Activity

Grant Activity - Administration	
Description	<p>Conduct administrative activities, including grant execution, landowner contract development, board meetings, eLINK reporting, etc.</p> <p>Sue Humble and Craig Mell will be responsible for budget tracking, processing reimbursement checks, attending Chisago SWCD Board meetings for project approval and certification, and updating project folders. Mary Jo Youngbauer will be responsible for grant reporting activities, including reporting in eLINK.</p>
Category	ADMINISTRATION/COORDINATION
Start Date	4-Apr-17
End Date	
Has Rates and Hours?	Yes
Actual Results	<p>As of January 4, 2018 Contracts and payment vouchers for the Loren Larson project were completed. Elink reporting is up to date.</p> <p>As of January 8, 2019 Contracts and SWCD Board approval of cost share funds were approved for Marvin Grell, Russel Danson, Duane Luehring, Steve and Deborah Dock, and Randy Carlson. A payment voucher and check were issued to Russel Danson at the completion of that project.</p> <p>As of August 13, 2019 Payment vouchers and checks were issued for Melvin Grell, Lee Olson, Stuart & Andrea Patten (formerly Duane Luehring), Steve and Deborah Dock, Matt Hagfors, Doug Hagfors, Dallas Olson and Roger Blazek. eLink reporting up to date on all projects.</p> <p>As of December 31, 2019 A partial payment was made to Kurt Lundahl on 12/12/19 for work completed on the project in 2019.</p> <p>As of April 2, 2020 Preparing grant applications and encumbering funds for 2020 spring projects Melvin Grell, Dean Bondeson, Frank Carlson, Steve Houle</p> <p>As of July 2020 Admin work preparing project contracts and cost share paperwork for Laura Bock, Kurt Lundahl, Melvin Grell, Dean Bondeson, Frank Carlson, Brenda Green</p>

As of Jan. 1, 2021

Admin work by Craig Mell and Sue Humble creating invoices, project vouchers, checks and grant paperwork for projects completed in 2020.

Grant Activity - Goose Lake Construction

Description	<p>This grant is focused on the pollutants total phosphorus and sediment (as a carrier of phosphorus). The SWCD will directly target those high priority projects identified as important contributing sources of phosphorus and/or sediment to Goose Lake (North and South bays). The highest priority projects will be targeted first. Two projects have completed designs and will be implemented in 2017: Loren Larson (WASCOBs-Goose Lake) and Randy Carlson (Use exclusion-Goose Lake). A list of projects (combined by field) ranked by total phosphorus reduction is included in the attachments.</p> <p>The SWCD's goal is to implement 20 BMPs between Goose Lake and Rush Lake watersheds, to reduce the amount of phosphorus and sediment by 20 pounds per year and 20 tons per year, respectively. Best management practices will include water and sediment control basins, buffers, filter strips, rain gardens, vegetated swales, gully stabilization projects, cover crops, and grassed waterways.</p> <p>The landowner is responsible for soliciting bids from contractors and for choosing a contractor to hire for their project. In some cases, the landowner signs a document that allows the SWCD to solicit bids on their behalf. The landowner is still responsible for hiring the contractor. The SWCD has a list of potential contractors that the SWCD has worked with on previous projects. The landowner can solicit bids from contractors on that list or any other contractor they would like. The SWCD will review the bids received to ensure they meet the project requirements and are within budget. The landowner may choose a contractor that has submitted a bid above the cost share provided by the SWCD as long as the landowner pays the difference directly.</p>		
Category	AGRICULTURAL PRACTICES		
Start Date	8-Aug-17	End Date	
Has Rates and Hours?	No		
Actual Results	<p>As of January 4, 2018 No construction has taken place to date.</p> <p>As of January 8, 2019 Construction was completed on Loren Larson and Randy Carlson projects.</p> <p>As of August 13, 2019 Construction was completed on Dallas Olson and Roger Blazek.</p>		

As of December 31, 2019
 No new construction has taken place.

Activity Action - Larson WASCObS			
Practice	638 - Water and Sediment Control Basin	Count of Activities	3
Description	3 WASCObS		
Proposed Size / Units	1,042.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	1,039.00 LINEAR FEET	Installed Date	1-Jun-18
Mapped Activities	3 Point(s)	Technical Assistance Provider	

Final Indicator for Larson WASCObS

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	12.26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Goose Lake		

Final Indicator for Larson WASCObS

Indicator Name	SEDIMENT (TSS)	Value	8.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Goose Lake		

Final Indicator for Larson WASCObS

Indicator Name	SOIL (EST. SAVINGS)	Value	8.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Goose Lake		

Final Indicator for Larson WASCObS

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	59.08
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake		

Final Indicator for Larson WASCObS

Indicator Name	SEDIMENT (TSS)	Value	59.08
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake		

Final Indicator for Larson WASCObS

Indicator Name	SOIL (EST. SAVINGS)	Value	59.08
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake		

Activity Action - Randy Carlson			
Practice	342 - Critical Area Planting	Count of Activities	2
Description	Critical area planting and stream crossing		
Proposed Size / Units	0.60 AC	Lifespan	10 Years
Actual Size/Units	0.60 AC	Installed Date	28-Sep-18
Mapped Activities	2 Polygon(s)	Technical Assistance Provider	

Final Indicator for Randy Carlson			
Indicator Name	SEDIMENT (TSS)	Value	1.32
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Fish Lake Creek		
Final Indicator for Randy Carlson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.61
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Fish Lake Creek		
Final Indicator for Randy Carlson			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.32
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Fish Lake Creek		
Final Indicator for Randy Carlson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Fish Lake Creek		
Final Indicator for Randy Carlson			
Indicator Name	SEDIMENT (TSS)	Value	6.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Fish Lake Creek		
Final Indicator for Randy Carlson			
Indicator Name	SOIL (EST. SAVINGS)	Value	6.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Fish Lake Creek		

Activity Action - Dallas Olson			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Grassed berm between 4-6FT tall		
Proposed Size / Units	270.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	292.00 LINEAR FEET	Installed Date	13-Aug-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Dallas Olson

Indicator Name	SEDIMENT (TSS)	Value	5.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson

Indicator Name	SEDIMENT (TSS)	Value	3.08
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson

Indicator Name	SOIL (EST. SAVINGS)	Value	8.80
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.62
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson

Indicator Name	SOIL (EST. SAVINGS)	Value	4.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Goose Lake Watershed		

Activity Action - Dallas Olson - Diversions			
Practice	362 - Diversion	Count of Activities	3
Description	Earthen diversion		
Proposed Size / Units	422.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	439.00 LINEAR FEET	Installed Date	13-Aug-19
Mapped Activities	3 Line(s)	Technical Assistance Provider	

Final Indicator for Dallas Olson - Diversions

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.62
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson - Diversions

Indicator Name	SOIL (EST. SAVINGS)	Value	18.98
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson - Diversions

Indicator Name	SEDIMENT (TSS)	Value	6.64
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson - Diversions

Indicator Name	SOIL (EST. SAVINGS)	Value	4.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Goose Lake Watershed		

Final Indicator for Dallas Olson - Diversions

Indicator Name	SEDIMENT (TSS)	Value	5.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Goose Lake Watershed		

Activity Action - Roger Blazek			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Berm less than 4FT tall - Farmed		
Proposed Size / Units	146.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	150.00 LINEAR FEET	Installed Date	9-Jul-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Roger Blazek			
Indicator Name	SOIL (EST. SAVINGS)	Value	86.63
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		
Final Indicator for Roger Blazek			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	12.89
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		
Final Indicator for Roger Blazek			
Indicator Name	SOIL (EST. SAVINGS)	Value	4.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Goose Lake Watershed		
Final Indicator for Roger Blazek			
Indicator Name	SEDIMENT (TSS)	Value	6.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Goose Lake Watershed		
Final Indicator for Roger Blazek			
Indicator Name	SEDIMENT (TSS)	Value	15.16
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Goose Lake Watershed		

Grant Activity - Rush Lake Construction

Description	<p>This grant is focused on the pollutants total phosphorus and sediment (as a carrier of phosphorus). The SWCD will directly target those high priority projects identified as important contributing sources of phosphorus and/or sediment to Rush Lake (East and West bays). The highest priority projects will be targeted first. There are 2 projects with completed designs that will be implemented in 2017: Matt Hagfors (WASCOBs-Rush Lake), Russ Danson (WASCOBs-Rush Lake). A list of projects (combined by field) ranked by total phosphorus reduction is included in the attachments.</p> <p>The SWCD's goal is to implement 20 BMPs between Goose Lake and Rush Lake watersheds, to reduce the amount of phosphorus and sediment by 20 pounds per year and 20 tons per year, respectively. Best management practices will include water and sediment control basins, buffers, filter strips, rain gardens, vegetated swales, gully stabilization projects, cover crops, and grassed waterways.</p> <p>The landowner is responsible for soliciting bids from contractors and for choosing a contractor to hire for their project. In some cases, the landowner signs a document that allows the SWCD to solicit bids on their behalf. The landowner is still responsible for hiring the contractor. The SWCD has a list of potential contractors that the SWCD has worked with on previous projects. The landowner can solicit bids from contractors on that list or any other contractor they would like. The SWCD will review the bids received to ensure they meet the project requirements and are within budget. The landowner may choose a contractor that has submitted a bid above the cost share provided by the SWCD as long as the landowner pays the difference directly.</p>		
Category	AGRICULTURAL PRACTICES		
Start Date	10-Apr-18	End Date	08-Jun-21
Has Rates and Hours?	No		
Actual Results	<p>As of January 4, 2018 No construction activity has taken place to date.</p> <p>As of January 8, 2019 Construction was completed on Russel Danson's project.</p> <p>As of August 13 2019 Construction was completed on Melvin Grell, Steve & Deborah Dock, Lee Olson, Matt Hagfors, Doug Hagfors and Stuart & Andrea Patten (formerly Duane Luehring).</p>		

As of December 31, 2019

Partial construction completed and partial payment made on the Kurt Lundahl project. To be completed in 2020. The Bock project to be completed in 2020 also.

As of June 8th, 2021

Frank Carlson's project is installed and payment has been issued.

Activity Action - Doug Hagfors			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Grassed WASCOD less than 4FT tall		
Proposed Size / Units	100.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	103.00 LINEAR FEET	Installed Date	9-Jul-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Doug Hagfors			
Indicator Name	SEDIMENT (TSS)	Value	15.68
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Doug Hagfors			
Indicator Name	SOIL (EST. SAVINGS)	Value	15.68
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Doug Hagfors			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	13.32
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Doug Hagfors			
Indicator Name	SOIL (EST. SAVINGS)	Value	5.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		
Final Indicator for Doug Hagfors			
Indicator Name	SEDIMENT (TSS)	Value	6.2

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		

Activity Action - Danson WASCOB			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	WASCOB		
Proposed Size / Units	351.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	360.00 LINEAR FEET	Installed Date	24-May-18
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Danson WASCOB			
Indicator Name	SOIL (EST. SAVINGS)	Value	24.64
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Rush Lake		

Final Indicator for Danson WASCOB			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	31.23
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Rush Lake		

Final Indicator for Danson WASCOB			
Indicator Name	SEDIMENT (TSS)	Value	24.64
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Rush Lake		

Activity Action - Melvin Grell			
Practice	638 - Water and Sediment Control Basin	Count of Activities	2
Description	Farmable WASCOBs less than 4FT tall		
Proposed Size / Units	271.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	273.00 LINEAR FEET	Installed Date	5-Jun-19
Mapped Activities	2 Point(s)	Technical Assistance Provider	

Final Indicator for Melvin Grell			
Indicator Name	SEDIMENT (TSS)	Value	4.0

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		
Final Indicator for Melvin Grell			
Indicator Name	SEDIMENT (TSS)	Value	17.88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Melvin Grell			
Indicator Name	SOIL (EST. SAVINGS)	Value	17.88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Melvin Grell			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	15.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Melvin Grell			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		

Activity Action - Lee Olson			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Grassed WASC0B 4-6FT tall		
Proposed Size / Units	225.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	229.00 LINEAR FEET	Installed Date	9-Jul-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Lee Olson			
Indicator Name	SEDIMENT (TSS)	Value	7.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		
Final Indicator for Lee Olson			
Indicator Name	SOIL (EST. SAVINGS)	Value	14.08
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Lee Olson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.98
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Lee Olson			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake		

Final Indicator for Lee Olson			
Indicator Name	SEDIMENT (TSS)	Value	2.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake		

Activity Action - Matthew Hagfors			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	Grassed WASC0B 4-6FT tall		
Proposed Size / Units	356.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	348.00 LINEAR FEET	Installed Date	9-Jul-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Matthew Hagfors			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		

Final Indicator for Matthew Hagfors			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Final Indicator for Matthew Hagfors			
Indicator Name	SEDIMENT (TSS)	Value	7.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		

Final Indicator for Matthew Hagfors			
Indicator Name	SEDIMENT (TSS)	Value	5.26

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		
Final Indicator for Matthew Hagfors			
Indicator Name	SOIL (EST. SAVINGS)	Value	30.09
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Activity Action - Steve & Deborah Dock			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Vegetated/rock lined channel with coir checks		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	13-Aug-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Steve & Deborah Dock			
Indicator Name	SEDIMENT (TSS)	Value	19.64
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Steve & Deborah Dock			
Indicator Name	SOIL (EST. SAVINGS)	Value	19.64
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Steve & Deborah Dock			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	29.46
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Activity Action - Stuart & Andrea Patten			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Rock lined gully stabilization with checks		
Proposed Size / Units	1.00 COUNT	Lifespan	10 Years
Actual Size/Units	1.00 COUNT	Installed Date	13-Aug-19
Mapped Activities	1 Point(s)	Technical Assistance Provider	

Final Indicator for Stuart & Andrea Patten			
Indicator Name	SEDIMENT (TSS)	Value	8.25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Stuart & Andrea Patten			
Indicator Name	SOIL (EST. SAVINGS)	Value	8.25
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Stuart & Andrea Patten			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	7.01
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Activity Action - Kurt Lundahl			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Lined waterway to prevent further erosion from culvert under road		
Proposed Size / Units	185.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	185.00 LINEAR FEET	Installed Date	2-Jun-20
Mapped Activities	1 Line(s)	Technical Assistance Provider	NRCS

Final Indicator for Kurt Lundahl			
Indicator Name	SEDIMENT (TSS)	Value	29.33
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Final Indicator for Kurt Lundahl			
Indicator Name	SOIL (EST. SAVINGS)	Value	29.33
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Final Indicator for Kurt Lundahl			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	29.33
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Activity Action - Laura Bock			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description			
Proposed Size / Units	145.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	147.00 LINEAR FEET	Installed Date	29-May-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	NRCS

Final Indicator for Laura Bock			
Indicator Name	SOIL (EST. SAVINGS)	Value	0.7
Indicator Subcategory/Units	WIND EROSION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Rush Lake Watershed		

Final Indicator for Laura Bock			
Indicator Name	SEDIMENT (TSS)	Value	4.36
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Final Indicator for Laura Bock			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.36
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Final Indicator for Laura Bock			
Indicator Name	SOIL (EST. SAVINGS)	Value	41.31
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake Watershed		

Activity Action - Melvin Grell 17-15			
Practice	638 - Water and Sediment Control Basin	Count of Activities	1
Description	WASCOB to prevent ephemeral gully erosion		
Proposed Size / Units	472.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	500.00 LINEAR FEET	Installed Date	25-Nov-20
Mapped Activities	1 Point(s)	Technical Assistance Provider	NRCS

Final Indicator for Melvin Grell 17-15			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	42.35
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Creek Watershed		

Final Indicator for Melvin Grell 17-15			
Indicator Name	SEDIMENT (TSS)	Value	36.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Creek Watershed		

Final Indicator for Melvin Grell 17-15			
Indicator Name	SOIL (EST. SAVINGS)	Value	36.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Creek Watershed		

Activity Action - Brenda Green			
Practice	468 - Lined Waterway or Outlet	Count of Activities	1
Description	Vegetated swale with native plants and check points to filter water before reaching Rush Lake		
Proposed Size / Units	1,100.00 SQUARE FEET	Lifespan	10 Years
Actual Size/Units	1,100.00 SQUARE FEET	Installed Date	20-Oct-20
Mapped Activities	1 Line(s)	Technical Assistance Provider	TSA

Final Indicator for Brenda Green			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.35
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Final Indicator for Brenda Green			
Indicator Name	SEDIMENT (TSS)	Value	2.92

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		
Final Indicator for Brenda Green			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.92
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Activity Action - Dean Bondeson			
Practice	638 - Water and Sediment Control Basin	Count of Activities	2
Description	Two WASCObS, one 4-6' tall, grassed. The other less than 4' tall, grassed.		
Proposed Size / Units	945.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	971.00 LINEAR FEET	Installed Date	17-Dec-20
Mapped Activities	2 Point(s)	Technical Assistance Provider	NRCS

Final Indicator for Dean Bondeson			
Indicator Name	SEDIMENT (TSS)	Value	19.77
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake watershed		

Final Indicator for Dean Bondeson			
Indicator Name	SOIL (EST. SAVINGS)	Value	19.77
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake watershed		

Final Indicator for Dean Bondeson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	16.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake watershed		

Activity Action - Frank Carlson			
Practice	600 - Terrace	Count of Activities	1
Description	Project designed for terrace, lined waterway/outlet, underground outlet, mulching and critical area planting		
Proposed Size / Units	1,048.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	1,048.00 LINEAR FEET	Installed Date	5-May-21
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	NRCS

Final Indicator for Frank Carlson			
Indicator Name	SEDIMENT (TSS)	Value	15.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		
Final Indicator for Frank Carlson			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	15.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Rush Lake		

Grant Activity - Technical/Engineering

<p>Description</p>	<p>The SWCD will utilize NRCS engineers Marvin Kunkel and Nicole Sternquist on projects with NRCS. On other projects, the SWCD will use engineering services from James Landini, PE, Washington Conservation District. SWCD staff include District Administrator Craig Mell, Conservation Technician Mary Jo Youngbauer, Water Resource Specialist Casey Thiel, and Resource Conservationist Shane Hultman. Mell and Hultman will focus on ag projects, Thiel will focus on shoreline and backyard conservation projects, and Youngbauer will focus on projects that fall in between, such as hobby farmers. Tasks include providing technical assistance, developing designs, construction oversight, and producing as-builts after construction check out. NRCS Standards will be used, including but not limited to: Diversion (362), Filter Strip (393), Grade Stabilization Structure (410), Grassed Waterway (412), Stormwater Runoff Control (570), Water and Sediment Control Basin (638).</p> <p>This budget item includes the \$20,000 for Project Development that was included in the project application. Due to a complication with staff timesheet tracking, BWSR has allowed the two budgets to be combined. Project development for this grant will include the SWCD staff working with the Rush Lake Improvement Association and the Goose Lake Association to reach out to landowners in the watershed to inform them of the impacts they may be having on water quality and to promote the availability of technical assistance and cost share funding to address those water quality concerns. Both lake associations include educational information and program information in their newsletters and communications with their members.</p> <p>Each year, the Chisago SWCD and NRCS partner to host one or more Farmer Focus Group meetings. On March 22, 2017, the first meeting of the year will take place at Peterson Farms in Rush City, with the topic of soil health.</p>		
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>		
<p>Start Date</p>	<p>4-Apr-17</p>	<p>End Date</p>	<p>08-Jun-21</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>		
<p>Actual Results</p>	<p>As of January 4, 2018 Survey and designs completed for Loren Larson, Russel Danson, Melvin Grell, and Randy Carlson. A design was completed for Matt Hagfors, but the landowner has decided not to proceed.</p> <p>As of January 8, 2019 Survey and design complete for Melvin Grell, Duane Luehring, Steve & Deborah Dock projects. Expect to be installed in 2019.</p> <p>As of August 13, 2019</p>		

Engineering assistance with as-builts and technical assistance during construction and check out provided for Melvin Grell, Lee Olson, Stuart & Andrea Patten (formerly Duane Luehring), Steve and Deborah Dock, Matt Hagfors, Doug Hagfors, Dallas Olson and Roger Blazek.
 As of December 31, 2019
 Engineering assistance during construction was provided for Lundahl project. Survey and design work for Bock.
 As of April 2, 2020
 Technical/engineering assistance preparing construction designs for Melvin Grell, Steve Houle, Dean Bondeson, and Frank Carlson.
 As of July 2020,
 Technical and engineering assistance time was spent on Laura Bock, Kurt Lundahl, Dean Bondeson, Melvin Grell, Frank Carlson and Brenda Green's project. Kurt Lundahl and Laura Bock's project completed.

As of June 8th, 2021
 The Frank Carlson project was installed this spring. Shane Hultman helped with project install and checkout.

Grant Attachments

Document Name	Document Type	Description
2017 Clean Water Fund amendment executed	Grant Agreement Amendment	
2017 Competitive Grant	Grant Agreement	2017 Competitive Grant - Chisago SWCD
2017 Competitive Grant AMENDMENT	Grant Agreement Amendment	
2017 Competitive Grant amendment EXECUTED	Grant Agreement Amendment	
2017 Competitive Grant executed	Grant Agreement	2017 Competitive Grant - Chisago SWCD
2017-2020 Staff Time Logs	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
2019-07-01 Amendment Request	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
70%	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
70% Payment Info Request	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
70% Staff Info Request 2017-2020 Time Logs	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
70% payment in request V2	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/07/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/07/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/15/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/15/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/13/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 08/13/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/08/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/14/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/04/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 06/08/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/29/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/11/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/04/2019
Amendment-2 Request	Journal	Journal Dated - 11/18/2020
Application	Workflow Generated	Workflow Generated - Application - 08/03/2016
BC Comments 03-08-2017	Journal	Journal Dated - 03/10/2017
BMP List	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
C17-4172 Expenditures Report	Journal	Journal Dated - 08/11/2020
C17-4172 Reconciliation Checklist	Journal	Journal Dated - 08/11/2020
C17-4172_Amendment No-2	Grant Agreement Amendment	
Financial Report	Progress	Progress Dated - 06/08/2021
Financial Report 40% Request	Progress	Progress Dated - 08/13/2019
Financial Report 40% Request	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
Identified BMPs Map	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
Non-Structural Land Management Policy	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
Receipt	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/03/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/30/2017

Document Name	Document Type	Description
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/14/2016
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/10/2017
grantmap_16992_2016-08-01_02-13-13-PM.jpg	Grant	2017 Rush Lake/Goose Lake TMDL Implementation Program