



Grant All-Detail Report Projects and Practices 2015

Grant Title - Snake River Watershed WRAPS based projects

Grant ID - C15-2843

Organization - Snake River Watershed Management Board

Original Awarded Amount	\$312,025.00	Grant Execution Date	5/4/2015
Required Match Amount	\$78,006.25	Original Grant End Date	12/31/2018
Required Match %	25%	Grant Day To Day Contact	Teresa Wickeham
Current Awarded Amount	\$312,025.00	Current End Date	6/30/2019

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$312,025.00	\$127,566.96	\$184,458.04
Total Match Amount	\$78,006.00	\$30,688.95	\$47,317.05
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$390,031.00	\$158,255.91	\$231,775.09

*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
County Match	Agricultural Practices	Local Fund	county match	\$0.00	\$3,753.63	6/30/2017	Y
Engineering and technical assistance	Technical/Engineering Assistance	Current State Grant	Snake River Watershed WRAPS based projects	\$80,000.00	\$34,924.13	1/28/2019	N
Project - Best Management Practice Implementation	Agricultural Practices	Current State Grant	Snake River Watershed WRAPS based projects	\$173,175.00	\$62,025.06	10/22/2018	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Project - Best Management Practice Implementation	Agricultural Practices	Federal Funds	EQIP program contributions	\$20,281.00			Y
Project - Best Management Practice Implementation	Agricultural Practices	Landowner Fund	Landowner contributions	\$57,725.00	\$26,935.32	10/3/2018	Y
Project Administration, Coordination and Reporting	Administration /Coordination	Current State Grant	Snake River Watershed WRAPS based projects	\$8,650.00	\$4,029.55	12/31/2018	N
Project Development	Project Development	Current State Grant	Snake River Watershed WRAPS based projects	\$45,000.00	\$24,817.64	12/31/2018	N
Project outreach, education, community and civic engagement	Education/Information	Current State Grant	Snake River Watershed WRAPS based projects	\$5,200.00	\$1,770.58	12/31/2018	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
472 - Access Control	1	1	1546 LINEAR FEET	1650 LINEAR FEET
472 - Access Control	1	1	110 LINEAR FEET	110 LINEAR FEET
561 - Heavy Use Area Protection	10	1	10 AC	0.054 AC
587 - Structure for Water Control	5	5	5 COUNT	5 COUNT
342 - Critical Area Planting	1	1	0.1 AC	0.1 AC
410 - Grade Stabilization Structure	1	1	600 LINEAR FEET	600 LINEAR FEET
342 - Critical Area Planting	1	1	0.041 AC	0.041 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Project - Best Management Practice Implementation	PHOSPHORUS (EST. REDUCTION)	1230 LBS/YR	Snake River	BWSR CALC (FILTER STRIP)	These include a total of 41 BMP's
Project - Best Management Practice Implementation	SOIL (EST. SAVINGS)	123 TONS/YR	Snake River	BWSR CALC (FILTER STRIP)	These include 41 BMP's

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	37.86	TONS/YR
SOIL (EST. SAVINGS)	21.90	TONS/YR
PREVENTION	5.00	COUNT
PHOSPHORUS (EST. REDUCTION)	30.51	LBS/YR

Grant Activity

Grant Activity - County Match	
Description	County Match
Category	AGRICULTURAL PRACTICES
Start Date	1-Jan-16 End Date
Has Rates and Hours?	No
Actual Results	county administration, MCIT insurance, postage

Grant Activity - Engineering and technical assistance

Description	This activity includes project site assessments, planning, survey, design, cost estimates and BMP inspections. Revised on 6/21/18: This activity can be used watershed-wide (JW)	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date		End Date
Has Rates and Hours?	Yes	
Actual Results	<p>2017- TSA spent time in Kanabec County on project development and surveying the Etter project to design a waterway and rain garden. Project development from 2016 on the Renstrom project for a diversion near Mud Creek, but the clients opted out of the project. Started work on streambank erosion project (Sorensen) on the Snake River, to be built in the spring of 2018.</p> <p>Two projects were installed in 2018: The Etter native buffer and Radeke fence exclusion. Several projects were in the development process throughout the season. Two projects in Ann Lake Township, a shoreline restoration on Knife Lake and a streambank stabilization on Snake River are all planned for 2019 spring install.</p>	

Grant Activity - Project - Best Management Practice Implementation

Description	This activity includes the implementation of best management practices including: vegetative buffer enhancements in riparian and wetland areas, fence exclusions for cattle in buffered areas and heavy use protection at cattle crossings. This activity can be used watershed-wide. Revised 6/21/18 (JW)	
Category	AGRICULTURAL PRACTICES	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results	<p>Project development time was spent working with landowners and contractors to get two projects installed. A fence exclusion on Mud Creek was installed after two seasons of delay from excessive moisture. A native buffer on Knife Lake was installed to filter a large hillside. Other projects that were under development include a native buffer on Knife Lake, two road stabilization projects in Ann Lake township, a shoreline stabilization in Knife Lake, a streambank stabilization on the Snake River and a lake inlet stabilization on Knife Lake. All these projects will be ready for spring install.</p>	

Activity Action - Habeck			
Practice	561 - Heavy Use Area Protection	Count of Activities	10
Description	This activity includes the implementation of heavy use crossings through riparian areas. The project compliments the current heavy use in-stream crossing BMP that is already in place. The project will reduce soil erosion into the Knife River and allow better access to the south pastures to increase the productivity in the landowner's rotational grazing plan.		
Proposed Size / Units	10.00 AC	Lifespan	10 Years
Actual Size/Units	0.05 AC	Installed Date	18-Dec-17
Mapped Activities	1 Polygon(s)		

Final Indicator for Habeck			
Indicator Name	SEDIMENT (TSS)	Value	8.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Knife River		

Activity Action - Cross Lake Gully Stabilization			
Practice	410 - Grade Stabilization Structure	Count of Activities	1
Description	Gully stabilization project on north end of Cross Lake		
Proposed Size / Units	600.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	600.00 LINEAR FEET	Installed Date	30-Oct-17
Mapped Activities	1 Point(s)		

Final Indicator for Cross Lake Gully Stabilization			
Indicator Name	SOIL (EST. SAVINGS)	Value	21.82
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Cross lake		

Final Indicator for Cross Lake Gully Stabilization			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	21.82
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Cross Lake		

Final Indicator for Cross Lake Gully Stabilization			
Indicator Name	SEDIMENT (TSS)	Value	21.82
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)

Waterbody	Cross lake
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Activity Action - Etter			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	Lawn grass conversion on steel hill down to lake into natives and no-mow fescue		
Proposed Size / Units	0.10 AC	Lifespan	10 Years
Actual Size/Units	0.10 AC	Installed Date	17-Sep-18
Mapped Activities	1 Polygon(s)		

Final Indicator for Etter			
Indicator Name	SOIL (EST. SAVINGS)	Value	.06
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Knife Lake		

Final Indicator for Etter			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.69
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Knife Lake		

Final Indicator for Etter			
Indicator Name	SEDIMENT (TSS)	Value	.64
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Knife Lake		

Activity Action - Crawford			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	Lawn grass on Snake River converted to native buffer using seed and plugs		
Proposed Size / Units	0.04 AC	Lifespan	10 Years
Actual Size/Units	0.04 AC	Installed Date	3-Jul-18
Mapped Activities	1 Polygon(s)		

Final Indicator for Crawford			
Indicator Name	SOIL (EST. SAVINGS)	Value	.02
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Snake River		

Activity Action - Radeke			
Practice	472 - Access Control	Count of Activities	1
Description	Fencing through wooded pasture to exclude cattle from mud creek		
Proposed Size / Units	1,546.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	1,650.00 LINEAR FEET	Installed Date	22-Jul-18
Mapped Activities	1 Polygon(s)		

Final Indicator for Radeke			
Indicator Name	PREVENTION	Value	0
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	Unknown
Waterbody	Mud Creek		

Activity Action - Husnik			
Practice	587 - Structure for Water Control	Count of Activities	5
Description	Project is part of a prescribed grazing plan for the Husnik property. 5 rusted out culverts of the same size will be installed at crossings. Since the current culverts are rusted out, they ae causing erosion by not functioning properly.		
Proposed Size / Units	5.00 COUNT	Lifespan	10 Years
Actual Size/Units	5.00 COUNT	Installed Date	15-Mar-17
Mapped Activities	5 Point(s)		

Final Indicator for Husnik			
Indicator Name	PREVENTION	Value	5
Indicator Subcategory/Units	POLLUTION PREVENTION COUNT	Calculation Tool	Unknown
Waterbody	Snake River Watershed		

Activity Action - Kurtzman			
Practice	472 - Access Control	Count of Activities	1
Description	Lakeshore was eroding due to wave action. Lakeshore was re-graded, planted with native vegetation, and a coir-log and rip-rap practice were also implemented.		
Proposed Size / Units	110.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	110.00 LINEAR FEET	Installed Date	15-Jul-18
Mapped Activities	1 Polygon(s)		

Final Indicator for Kurtzman			
Indicator Name	SEDIMENT (TSS)	Value	7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake Pokegama		

Final Indicator for Kurtzman			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Lake Pokegama		

Grant Activity - Project Administration, Coordination and Reporting			
Description	This activity includes the administration, coordination and reporting for the clean water fund grant. This activity can be used watershed wide. Revised 6/21/18 (JW)		
Category	ADMINISTRATION/COORDINATION		
Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	2017-2018 SWCD staff time spend in maintaining a detailed grant's budget, coordinating activity and reporting our grant activities in e-Link.		

Grant Activity - Project Development

Description	This activity includes prioritizing work areas, initial site visits and discussions with landowners about the benefits of BMP's, setting up projects for planning, survey (if needed) and designs. Discussions with engineer and/or technical resources.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Jun-15	End Date	
Has Rates and Hours?	Yes		
Actual Results	2016/2017/2018 SWCD hours spent on possible project site visits and contracted project development which includes working with landowners, follow up site visits and working with TSA3. This activity can be used watershed wide. Revised 6/21/18 (JW)		

Grant Activity - Project outreach, education, community and civic engagement

Description	This activity includes outreach, education, and civic engagement with landowners, civic leaders, local community and the public, relating to the grant goals, objectives and water quality benefits of BMP implementation.		
Category	EDUCATION/INFORMATION		
Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	2016/2017/2018 development and distribution of promotional materials This activity can be used watershed-wide. Revised 6/21/18 (JW)		

Grant Attachments

Document Name	Document Type	Description
2015 Competitive Grant	Grant Agreement	2015 Competitive Grant - Snake River Watershed Management Board
2015 Competitive Grant amendment EXECUTED	Grant Agreement Amendment	
2015 Competitive Grant executed	Grant Agreement	2015 Competitive Grant - Snake River Watershed Management Board
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/28/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/25/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/25/2018

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/25/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/25/2017
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/12/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/15/2016
Amendment to work plan	Journal	Journal Dated - 03/07/2017
Application	Workflow Generated	Workflow Generated - Application - 09/26/2014
Cross Lake Project	Grant	Snake River Watershed WRAPS based projects
Kanabec 2017 Q3-4 Update	Grant	Snake River Watershed WRAPS based projects
Kanabec 2018	Grant	Snake River Watershed WRAPS based projects
Kanabec Q1 Update	Grant	Snake River Watershed WRAPS based projects
Kanabec Q2 Update	Grant	Snake River Watershed WRAPS based projects
Minutes requesting work plan amendment-Cross Lake	Grant	Snake River Watershed WRAPS based projects
Outreach 2017-18 Pine_Kanabec Postcard	Grant	Snake River Watershed WRAPS based projects
Outreach Kanabec Cattle Postcard 2017-18	Grant	Snake River Watershed WRAPS based projects
Outreach Shoreline Flyer 2018	Grant	Snake River Watershed WRAPS based projects
Snake River Watershed Buffers	Grant	Snake River Watershed WRAPS based projects
Unexecuted Grant Amendment	Grant Agreement Amendment	
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/09/2016
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/28/2015
grantmap_12617_2014-09-18_02-48-16-PM.jpg	Grant	Snake River Watershed WRAPS based projects