



Grant All-Detail Report Watershed Based Funding Metro 2019

Grant Title - 2019 - Watershed Based Funding Metro (North Cannon River WMO)

Grant ID - P19-3269

Organization - North Cannon River WMO

Original Awarded Amount	\$136,520.00	Grant Execution Date	11/15/2018
Required Match Amount	\$13,652.00	Original Grant End Date	12/31/2021
Required Match %	10%	Grant Day To Day Contact	Ashley Gallagher
Current Awarded Amount	\$136,520.00	Current End Date	12/31/2021

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$136,520.00	\$50,547.74	\$85,972.26
Total Match Amount	\$13,652.00	\$0.00	\$13,652.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$150,172.00	\$50,547.74	\$99,624.26

*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 - Watershed Based Funding Metro (North Cannon River WMO..	\$6,826.00	\$784.70	12/31/2020	N
Agricultural Practices Landowner Contributions	Agricultural Practices	Landowner Fund	Landowner Funds	\$13,652.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Agricultural Practices Non-Structural	Non-Structural Management Practices	Current State Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO..	\$32,490.00	\$38,325.00	11/7/2019	N
Agricultural Practices Project Development	Project Development	Current State Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO..	\$4,085.00	\$1,557.30	3/31/2020	N
Agricultural Practices Structural	Agricultural Practices	Current State Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO..	\$37,364.00			N
Agricultural Practices Technical/Engineering	Technical/Engineering Assistance	Current State Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO..	\$7,761.00	\$2,396.80	12/31/2019	N
Drainage Water Management	Education/Information	Current State Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO..	\$14,744.00	\$1,053.82	12/31/2020	N
Subwatershed Analysis	Project Development	Current State Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO..	\$33,250.00	\$6,430.12	12/31/2020	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
340 - Cover Crop	2	2	100 AC	100 AC
340 - Cover Crop	1	1	26 AC	26 AC
340 - Cover Crop	1	1	79 AC	79 AC
340 - Cover Crop	1	1	60 AC	60 AC

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
SOIL (EST. SAVINGS)	563.50	TONS/YR
PHOSPHORUS (EST. REDUCTION)	563.50	LBS/YR

Grant Activity

Grant Activity - Administration	
Description	<p>NCRWMO administrator will manage the State funds and local match to include tracking time, referencing BWSR Grants Administration Manual, providing interim and final eLINK reports, financial record keeping and providing website updates.</p> <p>It is anticipated that the NCRWMO will enter into a JPA with Dakota County SWCD for 2018-2021 to administer the FY19 grant. The final workplan will be loaded to eLink once approved by both organizations.</p>
Category	ADMINISTRATION/COORDINATION
Start Date	15-Nov-18
End Date	
Has Rates and Hours?	Yes
Actual Results	<p>JPA executed with Dakota County SWCD for services. Coordination on the grant, in particular eLink reporting and website updates.</p> <p>Coordination between NCRWMO, Dakota SWCD and partners continues, as well as reporting and general grant administration.</p>

Grant Activity - Agricultural Practices Landowner Contributions

Description	Landowners will have to contribute their own funds to both structural and non-structural agricultural practices. Structural practice cost-share rates can vary, however the landowner contributions can be anticipated to be between 10% to 25% of the project costs. Incentive payments for non-structural practices are designed to cover approximately 50% of the implementation costs, therefore the landowner contribution for non-structural practices will be approximately 50% of the project cost.		
Category	AGRICULTURAL PRACTICES		
Start Date	15-Nov-18	End Date	
Has Rates and Hours?	No		
Actual Results	No landowner contributions calculated yet. Will be based on future projects.		

Grant Activity - Agricultural Practices Non-Structural

Description	<p>Non-structural BMPs will be installed using the Dakota County SWCD's Incentive Payment Practices (IPP) program. Non-structural practices include cover crops (NRCS Conservation Practice Standard 340). Flat rates will be used and were developed based on EQIP rates, rates of surrounding SWCD cover crop programs, and discussions with landowners. Current rates are set at \$35 per acre per year for a multiple year contract. Based on CWF policy, non-structural practices will have a 3-year contract. There will be a maximum of 100 acres per applicant. The full 3-year incentive will be paid to landowners after the first year of seeding cover crops and inspections would be conducted in years two and three to verify cover crop seeding in order to ensure compliance with a three year contract. Issuing full payment after the first year of seeding will guarantee that funds are utilized within the grant period.</p> <p>The IPP program application ranking process includes higher priority based on location (i.e. groundwater susceptibility) and project details (i.e. other pollutant concerns addressed).</p> <p>It is anticipated that the NCRWMO will enter into a JPA with Dakota County SWCD for this grant activity. The final workplan will be loaded to eLink once approved by both organizations.</p>		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	15-Nov-18	End Date	
Has Rates and Hours?	No		
Actual Results	Executed and paid on 5 contracts for cover crops, for a total of 365 acres of cover crops for the next 3 years. Shifting funds to this activity but will remain under 10% of the grant. Activity is complete.		

Activity Action - Peine Farms, Inc. 19-IPP-20			
Practice	340 - Cover Crop	Count of Activities	1
Description	Cover crops were planted on 60 acres following corn silage harvest and will be implemented for 2 additional years. The winter cereal rye cover crop will reduce erosion, retain nutrients, and improve soil health.		
Proposed Size / Units	60.00 AC	Lifespan	3 Years
Actual Size/Units	60.00 AC	Installed Date	28-Oct-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Final Indicator for Peine Farms, Inc. 19-IPP-20			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	174.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Trout Brook		

Final Indicator for Peine Farms, Inc. 19-IPP-20			
Indicator Name	SOIL (EST. SAVINGS)	Value	174.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Trout Brook		

Activity Action - Peine Farms, Inc. 19-IPP-21			
Practice	340 - Cover Crop	Count of Activities	1
Description	Cover crops were planted on 79 acres following corn silage harvest and will be implemented for 2 additional years. The winter cereal rye cover crop will reduce erosion, retain nutrients, and improve soil health.		
Proposed Size / Units	79.00 AC	Lifespan	3 Years
Actual Size/Units	79.00 AC	Installed Date	28-Oct-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Final Indicator for Peine Farms, Inc. 19-IPP-21			
Indicator Name	SOIL (EST. SAVINGS)	Value	276.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Trout Brook		

Final Indicator for Peine Farms, Inc. 19-IPP-21			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	276.50
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Trout Brook		

Activity Action - Peine Farms, Inc. 19-IPP-22			
Practice	340 - Cover Crop	Count of Activities	1
Description	Cover crops were planted on 26 acres following corn silage harvest and will be implemented for 2 additional years. The winter cereal rye cover crop will reduce erosion, retain nutrients, and improve soil health.		
Proposed Size / Units	26.00 AC	Lifespan	3 Years
Actual Size/Units	26.00 AC	Installed Date	28-Oct-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Final Indicator for Peine Farms, Inc. 19-IPP-22			
Indicator Name	SOIL (EST. SAVINGS)	Value	65
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Trout Brook		

Final Indicator for Peine Farms, Inc. 19-IPP-22			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	65
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Trout Brook		

Activity Action - Dave Legvold 19-IPP-18			
Practice	340 - Cover Crop	Count of Activities	1
Description	Cover crops were planted on 100 acres as part of a corn and soybean crop rotation and will be installed for two additional years. Cover crops reduce erosion, retain nutrients, and improve soil health.		
Proposed Size / Units	100.00 AC	Lifespan	3 Years
Actual Size/Units	100.00 AC	Installed Date	24-Oct-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Final Indicator for Dave Legvold 19-IPP-18			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	20
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Mud Creek		

Final Indicator for Dave Legvold 19-IPP-18			
Indicator Name	SOIL (EST. SAVINGS)	Value	20
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Mud Creek		

Activity Action - Robert (Rusty) Kluver 19-IPP-19			
Practice	340 - Cover Crop	Count of Activities	1
Description	Cover crops were planted on 100 acres as part of a corn and soybean crop rotation and will be installed for an additional 2 years. Cover crops reduce erosion, retain nutrients, and improve soil health.		
Proposed Size / Units	100.00 AC	Lifespan	3 Years
Actual Size/Units	100.00 AC	Installed Date	25-Oct-19
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	

Final Indicator for Robert (Rusty) Kluver 19-IPP-19			
Indicator Name	SOIL (EST. SAVINGS)	Value	28
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Chub Creek		

Final Indicator for Robert (Rusty) Kluver 19-IPP-19			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	28
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	RUSLE2 (UPDATED)
Waterbody	Chub Creek		

Grant Activity - Agricultural Practices Project Development	
Description	<p>Project Development will include support activities such as marketing both structural and non-structural practices for agricultural erosion control. This may also include pollutant reduction calculations, maps and targeting as well as community engagement and education with landowners and operators.</p> <p>It is anticipated that the NCRWMO will enter into a JPA with Dakota County SWCD for this grant activity. The final workplan will be loaded to eLink once approved by both organizations.</p>
Category	PROJECT DEVELOPMENT
Start Date	15-Nov-18
	End Date
Has Rates and Hours?	Yes
Actual Results	<p>Communication with landowners on potential projects. Includes landowners approaching the SWCD and the SWCD reaching out to specific landowners with top projects in completed Sub-Watershed Assessments.</p> <p>This work will continue and more targeted outreach will be done to landowners with top projects in SWAs. Difficulties in the past year with outreach due to the pandemic.</p>

Grant Activity - Agricultural Practices Structural

Description	<p>Practices will be installed using Dakota County SWCD's Incentive Payment Practices (IPP) Program.</p> <p>Funds will be prioritized for projects in areas where a Subwatershed Analysis (SWA) is complete and the project is considered to have a high cost-benefit ratio. Potential projects identified in the SWAs follow NRCS FOTG and include grassed waterways (412), water and sediment control structures (638), grade stabilization structures (410), wetland restorations (657), and any supporting practices such as underground outlets (620) and critical area planting (342).</p> <p>It is anticipated that the NCRWMO will enter into a JPA with Dakota County SWCD for this grant activity. The final workplan will be loaded to eLink once approved by both organizations.</p>		
Category	AGRICULTURAL PRACTICES		
Start Date	15-Nov-18	End Date	
Has Rates and Hours?	No		
Actual Results	<p>Two new SWAs were completed (Pine Creek and Byllesby Direct) at the end of 2019. Targeting of top projects can now begin in 2020.</p> <p>North Branch Chub Creek and Cannon River Direct SWAs are to be completed in early 2021. Conversation have started with a few landowners in Pine Creek and Byllesby Direct. Outreach has been difficult on all SWAs due to the pandemic, however one-on-one contacts are planned for spring/summer 2021.</p>		

Grant Activity - Agricultural Practices Technical/Engineering

<p>Description</p>	<p>Technical/Engineering assistance will include activities associated with the survey/design, construction and inspection of practices.</p> <p>Since funds are utilizing the Dakota County SWCD's Incentive Payment Practices Program the Dakota County SWCD will ensure the necessary skills and training needed to implement practices according to NRCS standards and specifications. The current Job Approval Authority (JAA) of Dakota County SWCD staff would be sufficient for designing and certifying the majority of the proposed practices.</p> <p>Professional engineering may be required or specific practices may require expertise above the current levels retained by Dakota County SWCD. In these situations options include utilizing professional engineers (either external or through Dakota County), technical service providers, BWSR or USDA-NRCS.</p> <p>It is anticipated that approximately 90% of technical and engineering hours will be completed by a Dakota County SWCD technician and 10% will be available for professional engineering sign-off.</p>	
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>	
<p>Start Date</p>	<p>15-Nov-18</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>	
<p>Actual Results</p>	<p>All work in 2019 was for the design, implementation and certification of cover crop contracts. SWCD staff with proper JAA completed the work and all contracts followed NRCS standards.</p> <p>Remaining funds are intended for design. implementation and certification of structural practices.</p>	

Grant Activity - Drainage Water Management

Description	<p>Provide outreach and guidance on suitable locations for drainage water management practices. Activities include but are not limited to partnering with other agencies, businesses or non-profits, hosting field days, installing demonstration sites and creating outreach materials.</p> <p>It is estimated that 70% of this activity will be used for staff time of Dakota County SWCD or a sub-contractor, and 30% will be for hard costs including printed materials, expenses for field days or demonstration materials.</p> <p>It is anticipated that the NCRWMO will enter into a JPA with Dakota County SWCD for this grant activity. The final workplan will be loaded to eLink once approved by both organizations.</p>		
Category	EDUCATION/INFORMATION		
Start Date	15-Nov-18	End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>Discussions on how to start a program and incorporate the new NRCS program with Ecosystems Services Exchange. Develop outreach materials and a survey to measure change in knowledge or willingness to be used at a future meeting.</p> <p>A key staff person at Ecosystem Services Exchange passed away. Considering options on who else to work with. Outreach has been difficult due to the pandemic. Information on DWM has been brought to the NCRWMO Board as one form of disseminating resources. DWM potential sites are being identified in SWAs if there is enough information to determine this.</p>		

Grant Activity - Subwatershed Analysis

Description	<p>Complete a subwatershed analysis. Activities include preliminary desktop mapping, landowner outreach, field reconnaissance, pollutant calculations, priority practice ranking and a final report. The SWA process and format will follow existing protocols that have been developed by the Metro Area 4 SWCDs.</p> <p>It is anticipated that the NCRWMO will enter into a JPA with Dakota County SWCD for this grant activity. The final workplan will be loaded to eLink once approved by both organizations.</p>	
Category	PROJECT DEVELOPMENT	
Start Date	15-Nov-18	End Date
Has Rates and Hours?	Yes	
Actual Results	<p>In 2018, the SWCD developed watershed boundaries, soils and Waterways and Wetland Inventory Assessment (WWIA) layer data and maps for North Chub Creek in preparation for field reconnaissance.</p> <p>In 2019, field reconnaissance began in North Chub Creek, as well as the initial mapping and pollutant calculations. This work will continue into 2020. After completion of mapping and calculating pollutant reductions, SWCD staff will begin to write the report.</p> <p>Field reconnaissance and mapping are complete. Pollutant calculations inputs have been gathered but still need to be calculated before the final report can be completed. Goal is spring 2021.</p>	

Grant Attachments

Document Name	Document Type	Description
2019 Watershed Based Funding Metro	Grant Agreement	2019 Watershed Based Funding Metro - North Cannon River WMO
2019 Watershed Based Funding Metro EXECUTED	Grant Agreement	2019 Watershed Based Funding Metro - North Cannon River WMO
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 05/28/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/21/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/23/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/03/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/27/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2019
Collaborative PTM Implementation Plan	Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO)

Document Name	Document Type	Description
JPA with SWCD	Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO)
Key Milestones	Grant	2019 - Watershed Based Funding Metro (North Cannon River WMO)
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 10/11/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 09/11/2018