



Grant All-Detail Report Watershed Based Funding Metro 2019

Grant Title - 2019 - Watershed Based Funding Metro (Dakota SWCD)

Grant ID - P19-3262

Organization - Dakota SWCD

Original Awarded Amount	\$165,450.00	Grant Execution Date	11/13/2018
Required Match Amount	\$16,545.00	Original Grant End Date	12/31/2021
Required Match %	10%	Grant Day To Day Contact	Lana Rotty
Current Awarded Amount	\$165,450.00	Current End Date	12/31/2021

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$165,450.00	\$34,506.90	\$130,943.10
Total Match Amount	\$16,545.00	\$1,327.92	\$15,217.08
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$181,995.00	\$35,834.82	\$146,160.18

*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
DCSWCD Administration/Reporting	Administration /Coordination	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$5,000.00	\$398.85	9/30/2020	N
DCSWCD Irrigation/AG Weather Network	Education/Information	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$14,250.00	\$9,996.94	9/30/2020	N
DCSWCD Landowner/LGU Match	Administration /Coordination	Local Fund	VRWJPO and Dakota County Funds, Landowner Funds	\$10,000.00			Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
DCSWCD South Branch Subwatershed Analysis - SWA Development	Planning and Assessment	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$23,750.00	\$14,572.96	12/31/2020	N
DCSWCD Stormwater BMPs - Project Development	Project Development	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$15,000.00	\$9,538.15	12/31/2020	N
DCSWCD Stormwater BMPs - Projects	Urban Stormwater Management Practices	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$30,000.00			N
DCSWCD Stormwater BMPs - Technical Assistance	Technical/Engineering Assistance	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$12,000.00			N
LMRWD Dakota County Fen Study	Planning and Assessment	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$64,092.00			N
LMRWD Dakota County Fen Study - Grant Match	Planning and Assessment	Local Fund	LMRWD Local Funds	\$6,545.00	\$1,327.92	12/31/2020	Y
LMRWD Dakota County Fen Study/Management Plan - Contract Management	Administration/Coordination	Current State Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)	\$1,358.00			N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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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
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Grant Activity

Grant Activity - DCSWCD Administration/Reporting			
Description	SWCD staff will manage the State funds and local match to include tracking employee time and billable rates, referencing BWSR Grants Administration Manual, providing interim and final eLINK reports, financial record keeping and providing website updates.		
Category	ADMINISTRATION/COORDINATION		
Start Date	14-Nov-18	End Date	
Has Rates and Hours?	Yes		
Actual Results	This grant was executed on November 13, 2018. The grant was paid on November 13, 2018 and grant funds totaling \$82,725 were recorded as a deposit on November 14, 2018.		

Grant Activity - DCSWCD Irrigation/AG Weather Network

Description	<p>Establish a web-based Agricultural Weather Network that distributes rainfall data and other parameters to landowners and is used to determine evapotranspiration rates for improved irrigation water management (IWM).</p> <p>Overall Measureable Outcome: 15 irrigation operators knowledgeable to use the data sharing system for IWM.</p> <p>Year 1 Milestones: Coordinate with partnering agencies to assess existing data sources and distribution methods. Contact all landowners with center pivot irrigation systems and solicit input regarding preferred info distribution system.</p> <p>Year 2 milestones: Establish data distribution system. Host informational training for landowners on use of data system.</p> <p>Year 3 Milestones: Host second informational meeting and training session for use of data. Conduct survey of landowners and compile results to obtain feedback and improve the program .</p>		
Category	EDUCATION/INFORMATION		
Start Date	14-Nov-18	End Date	
Has Rates and Hours?	Yes		
Actual Results	<p>Progress was made towards the overall outcomes and all year 1 milestones were met. A meeting was held in September with irrigators from across the County with approximately 20 in attendance. At this meeting irrigators learned about different irrigation scheduling tools and provided input on which tools they find useful. This information could help the SWCD pursue future funding for scheduling tools. Irrigation scheduling results in more efficient water use, and can reduce nitrate leaching events.</p> <p>SWCD staff coordinated with State agencies on weather stations. This led to a partnership with Minnesota Department of Agriculture. A weather station was installed near Hampton in October and a website for hosting the data was established. The website and scheduling tools will be promoted to all irrigators in 2020, which will help us achieve year 2 milestones.</p> <p>In 2020, the weather station was relocated south of Hastings and the website/database was updated accordingly. Presentation was provided on the weather station and scheduling options at Dakota County Crops Day in early March, due to the pandemic, no other in person outreach or training occurred. Outreach to farmers primarily consisted of emails and phone calls. Coordination with State agencies, local partners and consultants on developing the Irrigation Management Assistant tool for Dakota County.</p>		

Grant Activity - DCSWCD Landowner/LGU Match

Description	Grant match will come from a combination of sources including local funds from the Vermillion River Watershed Joint Powers Organization, Dakota County, and landowner funds for the installation of projects.		
Category	ADMINISTRATION/COORDINATION		
Start Date	14-Nov-18	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - DCSWCD South Branch Subwatershed Analysis - SWA Development

<p>Description</p>	<p>A subwatershed analysis (SWA) within the South Branch drainage area of Vermillion River Watershed will be completed. A desktop review will be completed using collected land use data, soils data, and land cover information. Following the preliminary desktop review, landowner outreach, field reconnaissance, pollutant calculations, priority practice ranking, and a final report will be completed. It is anticipated that 10% of this activity will be needed for landowner coordination, outreach and requesting property access, 90% will be used for developing the SWA document.</p> <p>Overall Measureable Outcome: Final Report prioritizing potential projects based on estimated cost-benefit ratios.</p> <p>Year 1 Milestones: Work with VRWJPO to develop project-specific outreach materials for landowners. Compile land use/GIS data to complete desktop analysis.</p> <p>Year 2 milestones: Complete desktop analysis to prioritize catchments within the subwatershed. Complete field reconnaissance on approximately 20,786 acres (33 square miles) of the South Branch subwatershed.</p> <p>Year 3 Milestones: Create maps, cost/benefit ratios, and ranking of identified projects. Complete final report. Provide public web access to final report through the Dakota County SWCD website.</p>	
<p>Category</p>	<p>PLANNING AND ASSESSMENT</p>	
<p>Start Date</p>	<p>14-Nov-18</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>	
<p>Actual Results</p>	<p>The subwatershed analysis for the South Branch drainage area of the Vermillion River Watershed is underway. The project is currently in the desktop review stage. A database has been set up include watershed boundaries, soils data, land cover information, including wetland and waterway inventory assessment data.</p> <p>In 2020, the desktop analysis on a section-by-section basis has been completed for the South Branch subwatershed. Shapefiles of potential BMPs have been created and the analysis has transitioned to the field reconnaissance stage. Site visits with landowners are underway, which are needed to collect field data and measurements, verify identified BMPs, and determine feasibility levels for each project.</p>	

Grant Activity - DCSWCD Stormwater BMPs - Project Development

<p>Description</p>	<p>SWCD will coordinate with landowners to solicit and discuss projects (marketing), conduct initial site assessments and field surveys (inventory) and develop final designs (design development) prior to SWCD Board contract approval. SWCD staff will develop BMP recommendations that consider site specific opportunities and constraints, estimated project costs, pollutant reduction, installation timing, and available funding; completing water quality benefit calculations to identify the cost to benefit prioritization. It is anticipated that 33% of this activity will go towards marketing, 33% to inventory and 33% design development; subject to change based on the scope and complexities of individual projects installed.</p> <p>Overall Measureable Outcome: Development of projects that meet pollutant reduction goals listed in Urban Stormwater Management Practices activity.</p> <p>Year 1 Milestones: Coordinate 4 meetings with landowners, conduct 4 site evaluations, develop preliminary project plans, coordinate project funding, coordinate projects with partnering budgets as needed.</p> <p>Year 2 milestones: Complete project development and project planning.</p> <p>Year 3 Milestones: Continue completing project development as needed.</p>	
<p>Category</p>	<p>PROJECT DEVELOPMENT</p>	
<p>Start Date</p>	<p>14-Nov-18</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>	
<p>Actual Results</p>	<p>Project discussions were started and initial assessments were completed with the City of Inver Grove Heights, Dakota County, the City of Eagan, and the city of West Saint Paul for stormwater projects. Concept plans for stormwater BMPs are underway for two potential projects in the City of Inver Grove Heights.</p> <p>In 2020, staff coordinated with local partners and completed multiple initial assessments. These include meetings with local Church partners, the City of Inver Grove Heights, Dakota County, the City of Eagan, the City of Rosemount, and the city of West Saint Paul to identify and vet potential stormwater projects. Concept plans for stormwater BMPs were completed for two potential projects in the City of Inver Grove Heights. Feasibility study and concept plans for projects in Eagan, Lilydale, and Rosemount are underway.</p>	

Grant Activity - DCSWCD Stormwater BMPs - Projects

<p>Description</p>	<p>Retrofit stormwater Best Management Practices (BMPs) to assist partnering Local Government Units to achieve water quality goals identified in their local stormwater plans, TMDLs and WRAPS reports. Projects will be installed to meet District Technical Standards. District Technical Standards include, but are not limited to, the most current: USDA Field Office Technical Guide, MPCA Stormwater Manual, MPCA Protecting Water Quality in Urban Areas, NPDES General Stormwater Permit for Construction Activity, Minnesota Urban Small Sites BMP Manual, Dakota County Low Impact Development Standards, and applicable local, state and federal regulations.</p> <p>Prioritization and funding for projects will be provided through Dakota SWCD’s established cost share programs according to SWCD adopted Cost Share policy and BWSRs grant administration manual.</p> <p>Overall Measureable Outcome: Install BMPs to reduce TSS loading by 5 tons/year, volume by 3.7 ac-ft/year, and total phosphorus loading by 0.7 lbs/year.</p> <p>Year 1 Milestones: N/A.</p> <p>Year 2 Milestones: Complete installation of BMPs to reduce pollutants by targeted amounts and distribute project funds through SWCD cost share program.</p> <p>Year 3 Milestones: Complete installation of BMPs to reduce pollutants by targeted amounts and distribute project funds through SWCD cost share program.</p>	
<p>Category</p>	<p>URBAN STORMWATER MANAGEMENT PRACTICES</p>	
<p>Start Date</p>	<p>14-Nov-18</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>No</p>	
<p>Actual Results</p>		

Grant Activity - DCSWCD Stormwater BMPs - Technical Assistance

<p>Description</p>	<p>Technical assistance with ecological and engineering disciplines will include activities associated with post SWCD Board contract approval. These will include, but are not limited to, construction staking, construction oversight, construction inspections, and project certification. This activity will also include tasks needed to bring documentation to the SWCD Board for final payment approval and subsequent inspections needed to evaluate status of the project after project completion but within the grant term.</p> <p>The Dakota County Soil and Water Conservation District (SWCD) will ensure that staff has the necessary skill and training to install and maintain projects according to standards and specifications. Technical expertise of the District includes: 1 Certified Professional in Erosion and Sediment Control, 1 Certified Wetland Delineator – State of Minnesota, 5 Staff with USDA – Natural Resources Conservation Service Technical Approval Authority under Ecological and Engineering Sciences.</p> <p>When professional engineering is required or specific conservation practices require expertise above current technical capacity, the District will use professional engineers from our various partners or those with appropriate job approval authority. It is anticipated that 100% of this activity cost will be for SWCD staff although that is subject to change based on type and scale of projects installed.</p> <p>Overall Measureable Outcome: To ensure all installed projects meet applicable standards upon contract approval by the SWCD Board.</p> <p>Milestones: Activity will be completed as projects are installed under the projects activities.</p>	
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>	
<p>Start Date</p>	<p>14-Nov-18</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>Yes</p>	
<p>Actual Results</p>		

Grant Activity - LMRWD Dakota County Fen Study

<p>Description</p>	<p>Complete a comprehensive review of available information on the fens within the Lower Minnesota River Watershed District, specifically the fens in Dakota County.</p> <p>The long term goal and purpose of the gap analysis is to begin developing a sustainable management plan for each fen.</p> <p>Overall Measurable Outcome: Comprehensive review of available information. Complete gap analysis and coordinate with Met Council and DNR.</p> <p>Year 1 Milestones: Begin process of gathering available hydrology and water monitoring information on 4 fens (Black Dog, Quarry Island, Nicols, and Ft. Snelling).</p> <p>Year 2 milestones: Complete a gap analysis to determine adequacy of information currently available in order to develop long term management plans for each of the 4 fens.</p> <p>Year 3 milestones. Complete and close grant.</p>
<p>Category</p>	<p>PLANNING AND ASSESSMENT</p>
<p>Start Date</p>	<p>End Date</p>
<p>Has Rates and Hours?</p>	<p>No</p>
<p>Actual Results</p>	<p>A review of known LMRWD fen studies and available existing data was completed by Young Environmental Consulting. An initial project kickoff meeting was coordinated and completed with project partners including LMRWD Admin, Dakota County SWCD, DNR, and MCES on 5/21/19. Draft Fen Sustainability Gaps Analysis was outlined and data evaluation, map generation, drafting, and interim review by engineering and agency staff was completed. Interim review comments from project stakeholders were compiled, addressed, and incorporated into the draft. A meeting with LMRWD administrative staff, project consultants, DNR, MCES, and Dakota County SWCD was held on 12/17/19 to discuss the draft, identify additional data gaps, and determine next steps. Expenses and financial information is being gathered and will be entered when it is reviewed and complete.</p> <p>Report review was completed and final comments and edits have been addressed. The report has been finalized and posted to the LMRWD web site. Invoices from LMRWD and their consultants have been submitted to the DCSWCD. Invoices are under review and the project is anticipated to be finalized soon.</p>

Grant Activity - LMRWD Dakota County Fen Study - Grant Match		
Description	Grant match will come from Lower Minnesota River Watershed District funds.	
Category	PLANNING AND ASSESSMENT	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results		

Grant Activity - LMRWD Dakota County Fen Study/Management Plan - Contract Management		
Description	<p>Paid administration staff (consultant serves as District administrator) to manage contract between LMRWD and consultant for the completion of the gap analysis.</p> <p>Overall Measureable Outcome: Executed agreement with consultant.</p> <p>Year 1 Milestone: Execute contract including specific deliverables with consultant.</p> <p>Year 2 Milestone: N/A.</p> <p>Year 3 Milestone: Closeout project and successful completion of all activities.</p>	
Category	ADMINISTRATION/COORDINATION	
Start Date	14-Nov-18	End Date
Has Rates and Hours?	No	
Actual Results	Expenses and invoices from the LMRWD consulting staff have been submitted to the DCSWCD. Invoices are under review and the project is anticipated to be finalized soon.	

Grant Attachments

Document Name	Document Type	Description
2019 Watershed Based Funding Metro	Grant Agreement	2019 Watershed Based Funding Metro - Dakota SWCD
2019 Watershed Based Funding Metro EXECUTED	Grant Agreement	2019 Watershed Based Funding Metro - Dakota SWCD

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/24/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/08/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/31/2020
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/06/2020
Dakota Collaborative Combined Implementation Plan	Grant	2019 - Watershed Based Funding Metro (Dakota SWCD)
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 11/05/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 10/15/2018
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 09/11/2018