



## Grant All-Detail Report Accelerated Implementation Grant 2014

**Grant Title** - Miller Hill Mall Comprehensive Stormwater Management Plan

**Grant ID** - C14-8316

**Organization** - St Louis, South SWCD

<b>Grant Awarded Amount</b>	<b>\$186,475.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$46,618.75	<b>Grant End Date</b>	12/31/2016
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Kate Kubiak

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$186,475.00	\$158,974.32	\$27,500.68
Total Match Amount	\$47,000.00	\$43,480.00	\$3,520.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$233,475.00</b>	<b>\$202,454.32</b>	<b>\$31,020.68</b>

\*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
Conduct soil borings	Technical/Engineering Assistance	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$15,000.00	\$8,915.00	2/5/2016	N
Data Analysis / Plan Development	Project Development	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$79,985.00	\$79,881.92	2/5/2016	N
Design Public Education Elements	Education/Information	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$24,000.00	\$12,013.50	2/5/2016	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Design Team Planning Meetings	Project Development	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$30,635.00	\$30,460.99	2/5/2016	N
Design/Planning Meetings - SWCD and Mall staff	Project Development	Local Fund	Katie and Kate time - meetings	\$1,000.00	\$9,580.00	6/4/2015	Y
Grant Administration	Administration /Coordination	Local Fund	SWCD staff time	\$6,000.00	\$1,751.00	6/4/2015	Y
Perform topo survey of entire site including the location of all public and private utilities	Technical/Engineering Assistance	Local Fund	SWCD / TSA / City staff time and survey use, CAD design	\$10,000.00	\$9,715.00	10/31/2014	Y
Produce Deliverables	Project Development	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$20,355.00	\$15,094.41	2/5/2016	N
Publicity	Education/Information	Local Fund	staff time - Board and RSPT plan presentation	\$1,000.00			Y
SWCD contribution to design public education elements	Education/Information	Local Fund		\$4,000.00			Y
SWCD contribution to plan development	Planning and Assessment	Local Fund		\$4,000.00			Y
Stormwater Management Plan Data Collection	Monitoring/Data Collection	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$10,500.00	\$10,490.50	6/13/2014	N
Temperature monitoring on existing storm water structures	Monitoring/Data Collection	Local Fund	SWCD staff time - research, monitoring, procedures	\$10,000.00	\$2,434.00	9/30/2014	Y
Temperature monitoring on existing storm water structures - consultant and equipment.	Monitoring/Data Collection	Current State Grant	Miller Hill Mall Comprehensive Stormwater Management Plan	\$6,000.00	\$2,118.00	7/18/2014	N
Update Miller Creek Implementation Plan to include stormwater plan elements	Regulations/Ordinances/Enforcement	Local Fund	SWCD staff time	\$1,000.00			Y
plan development	Planning and Assessment	Local Fund	WALMART SEP funds	\$10,000.00	\$20,000.00	10/30/2015	Y

## 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 - Conduct soil borings	
Description	This work will be conducted by a subcontractor hired by a consultant. The subcontractor will conduct soil borings at specific points across the Mall's parking lot in likely project areas. The borings will determine soil types, infiltration potential and depth to bedrock.
Category	TECHNICAL/ENGINEERING ASSISTANCE
Start Date	2-Jun-14 <b>End Date</b>
Has Rates and Hours?	No
Actual Results	Aug 1/2014: Initial investigation into Soil borings was started. Feb 1 2015: existing available data may eliminate the need for physical soil borings. Feb 1 2016: Soil borings were completed to inform the Plan.

### Grant Activity - Data Analysis / Plan Development

Description	This work will be conducted by a consultant. They will research options to reduce temperature (Lit Review); study existing features (sand filters and ponds) for improvement opportunities; conduct modeling (using HydroCAD); and do cost estimating.		
Category	PROJECT DEVELOPMENT		
Start Date	5-May-14	End Date	
Has Rates and Hours?	No		
Actual Results	Aug 1/2014: GIS mapping was completed. Survey and temperature monitoring memos and discussions were completed. Drainages for each of the existing BMPs were delineated. Feb 1 2016: The plan is still under development.		

### Grant Activity - Design Public Education Elements

Description	The consultant will investigate and incorporate recommendations for public education into the comprehensive stormwater management plan. Based on discussions with Mall management, this could include public art relating to watersheds, displays in the mall regarding the proximity and features of Miller Creek and a central water feature (fountain) in the mall that highlights the connection(s) between commercial land uses, human activity, Miller Creek and Lake Superior.		
Category	EDUCATION/INFORMATION		
Start Date	1-Sep-14	End Date	
Has Rates and Hours?	No		
Actual Results	Feb 1 2015: Consultant started researching possible public education elements that could be incorporated into the mall with an emphasis on Miller Creek and trout habitat. Feb 1 2016: Public education elements are still being designed and will be included in the final plan.		

### Grant Activity - Design Team Planning Meetings

Description	This funding will cover time to prepare and hold design team planning meetings that will be coordinated by the consultant.		
Category	PROJECT DEVELOPMENT		
Start Date	15-Apr-14	End Date	
Has Rates and Hours?	No		
Actual Results	Aug 1/2014: Project was officially launched during this reporting period. Mall Mgmt., Consultants and SWCD/TSA staff met several times to go over the beginning parts of the plan/planning process. Feb 1 2015: Two planning meetings were held during this reporting period, one to discuss the upcoming survey data collection and one to discuss 2015 activities. Feb 1 2016: The design team planning meetings have been completed and the results will inform the final plan.		

### Grant Activity - Design/Planning Meetings - SWCD and Mall staff

Description	This funding is the match time provided by SWCD staff and Mall staff for their participation in the design team meetings, and other coordination / plan development meetings between the SWCD, the Mall and a consultant.		
Category	PROJECT DEVELOPMENT		
Start Date	1-May-14	End Date	
Has Rates and Hours?	No		
Actual Results	Aug 1/2014: SWCD and Mall staff participated in all meetings coordinated by the consultant during this period. Feb 1 2015: SWCD and Mall staff participated in all meetings during this period. Feb 1 2016: Planning meetings between the mall, SWCD and consultant continued over the past year.		

Grant Activity - Grant Administration	
Description	SWCD staff time for grant budgeting, invoicing a consultant and grant reporting.
Category	ADMINISTRATION/COORDINATION
Start Date	1-May-14 <span style="float: right;">End Date</span>
Has Rates and Hours?	No
Actual Results	<p>Aug 1/2014: Grant admin and reporting began as required during this period.</p> <p>Feb 1 2015: Grant reporting and budgeting continued as needed.</p> <p>Feb 1 2016: Grant reporting and budgeting continued as needed.</p>

Grant Activity - Perform topo survey of entire site including the location of all public and private utilities	
Description	This funding will cover the engineering tech's time from TSA #3, SWCD staff time assisting and the monetary equivalent for the use of our Trimble R10 survey equipment to acquire detailed topographic survey data on the entire site. Assistance from the City may also be needed to locate underground utilities. This data will inform BMP selections and designs and will help determine drainage pattern(s).
Category	TECHNICAL/ENGINEERING ASSISTANCE
Start Date	9-Jun-14 <span style="float: right;">End Date</span>
Has Rates and Hours?	Yes
Actual Results	<p>Aug 1/2014: SWCD/TSA staff discussed survey approach with consultant and began surveying the site during this period.</p> <p>Feb 1 2015: SWCD staff completed the survey of the mall parking lot, with direction from the consultant, in the late summer of 2014. Photos, sketches, elevations and other relevant data were collected and provided to the consultant, who will use the data to inform the stormwater management plan.</p>

### Grant Activity - Produce Deliverables

Description	This task will be completed by a Consultant - It will include the determination of Recommended Features and Recommended Phasing options and writing the plan/report with Figures, Cross Sections and cost estimates.		
Category	PROJECT DEVELOPMENT		
Start Date	2-Mar-15	End Date	
Has Rates and Hours?	No		
Actual Results	Feb 1 2016: The deliverables are being produced.		

### Grant Activity - Publicity

Description	This funding will cover SWCD time in preparing presentations (for example to the SWCD board, the Regional Stormwater Protection Team, the MN Erosion Control Association and other interested groups) and write-ups for our website and newsletters regarding the progress of the project.		
Category	EDUCATION/INFORMATION		
Start Date	1-May-15	End Date	
Has Rates and Hours?	No		
Actual Results	Feb 1 2016: Once the stormwater management plan is complete the plan will be publicized to interested groups.		

### Grant Activity - SWCD contribution to design public education elements

Description	These funds will cover the SWCD staff time contribution to researching and designing and integrating potential public education displays into the Mall's floor plan and design. This will be done in cooperation with the consultant.		
Category	EDUCATION/INFORMATION		
Start Date	1-May-14	End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - SWCD contribution to plan development		
Description	These funds will cover the SWCD staff time contribution to the development of the stormwater management plan in cooperation with the consultant.	
Category	PLANNING AND ASSESSMENT	
Start Date	30-Apr-14	End Date
Has Rates and Hours?	No	
Actual Results		

Grant Activity - Stormwater Management Plan Data Collection		
Description	<p>This work will be conducted by a Consultant. Includes the following tasks:</p> <ul style="list-style-type: none"> <li>Review Storm sewer maps;</li> <li>Review Mall blueprints;</li> <li>Examine Roof plans;</li> <li>Locate Utility easements;</li> <li>Review area LiDAR;</li> <li>Review available CAD files;</li> <li>Review Mall utility plans;</li> <li>Compile and review Information on outlot businesses;</li> <li>Review Maintenance records/ monitoring on the sand filters;</li> <li>Examine As-builts for sand filters, pond and outlots;</li> <li>Identify Property lines.</li> </ul>	
Category	MONITORING/DATA COLLECTION	
Start Date	1-May-14	End Date 01-Aug-14
Has Rates and Hours?	No	
Actual Results	Aug 1/2014: This task is essentially complete and the budgeted amount spent. All available and legible mall and city utility maps, as-builts from the mall's original construction, and aerials and topo maps were collected, analyzed and digitized.	

**Grant Activity - Temperature monitoring on existing storm water structures**

<b>Description</b>	This funding covers SWCD staff time to Monitor the temperature of inflow vs. outflow through existing sand filters and ponds on the site. This task will include researching an appropriate methodology; a trip down to Vermillion River / Dakota County SWCD to learn their methodology from a 2012 study; and general research. The data from this task will let project partners know if the existing BMPs are currently providing any temperature mitigation.		
<b>Category</b>	MONITORING/DATA COLLECTION		
<b>Start Date</b>	1-May-15	<b>End Date</b>	15-Sep-14
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	Aug 1/2014: During this period, SWCD staff purchased temperature loggers and assoc. software, identified deployment method, deployed loggers and conducted first round of data collection. Feb 1/2015: The temperature monitoring was completed by SWCD staff with advice and direction from the consultant during the summer of 2014. The data will be used by the consultant to determine the current temp mitigation capacity of the existing BMPs.		

**Grant Activity - Temperature monitoring on existing storm water structures - consultant and equipment.**

<b>Description</b>	These funds will cover the equipment, (potential) limited excavation work and compensation for an additional consultant to assist SWCD staff with completing the temperature monitoring on the existing sand filters and ponds. We hope to enlist assistance from the Vermillion River Joint Powers Board/Dakota SWCD, as they conducted a similar study in 2012.		
<b>Category</b>	MONITORING/DATA COLLECTION		
<b>Start Date</b>	30-Jun-14	<b>End Date</b>	30-Sep-14
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	Aug 1/2014: purchased 6 temp loggers and assoc software. worked with consultant to identify correct monitoring procedure.  Feb 1/2015: The temperature monitoring was completed by SWCD staff with advice and direction from the consultant during the summer of 2014. The data will be used by the consultant to determine the current temp mitigation capacity of the existing BMPs.		

### Grant Activity - Update Miller Creek Implementation Plan to include stormwater plan elements

Description	These funds will cover SWCD and MS4 staff time to update the Miller Creek (TMDL) Implementation Plan to include BMPs that are listed in the completed storm water management plan. Implementation plans can be continually updated and since the mall property is located near the stretch that exhibited the highest number of temperature exceedances, it would be important to include the information from the completed plan into the Implementation Plan.		
Category	REGULATIONS/ORDINANCES/ENFORCEMENT		
Start Date	1-Sep-15	End Date	
Has Rates and Hours?	No		
Actual Results			

### Grant Activity - plan development

Description	This is local cash in the form of Supplemental Environmental Funding that will pay for \$10,000 of consultant costs for plan development.		
Category	PLANNING AND ASSESSMENT		
Start Date	1-May-14	End Date	
Has Rates and Hours?	No		
Actual Results	Feb 1 2016: The plan is under development.		

### Grant Attachments

Document Name	Document Type	Description
<b>2014 Competitive Grant</b>	Grant Agreement	2014 Competitive Grant - St Louis, South SWCD
<b>2014 Competitive Grant executed</b>	Grant Agreement	2014 Competitive Grant - St Louis, South SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/05/2016
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/05/2016
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2016
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/19/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/20/2015
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 07/29/2014
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 10/04/2013

Document Name	Document Type	Description
<b>Barr invoice showing SWCD paid to date as of 1/22/16</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Barr invoice showing cumulative spent</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Consultant_Invoice_1</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Consultant_Invoice_2</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Consultant_Invoice_3</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Financial report</b>	Progress	Progress Dated - 01/27/2016
<b>Invoice_2_temp_loggers</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>MHM Design Wrkshp word cloud</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Miller Hill Mall Survey Notes</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>MillerHill_SSLSWCD</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>MillerHill_SSLSWCD</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>SR_loc_10455.jpg</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 03/31/2014
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 03/31/2014
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 01/23/2014
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 03/19/2014
<b>grantmap_10455_2013-10-03_08-21-10-AM.jpg</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>invitation to design workshp</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>invoice_1_temp_loggers</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan
<b>list of ideas that came out of design wrkshp note card exercise</b>	Grant	Miller Hill Mall Comprehensive Stormwater Management Plan