



## Grant All-Detail Report 2011 - Clean Water Assistance

**Grant Title** - 2011 - Clean Water Assistance - St. Louis, South (SWCD)

**Grant ID** - C13-0259

**Organization** - St Louis, South SWCD

<b>Grant Awarded Amount</b>	<b>\$154,893.00</b>	<b>Grant Execution Date</b>	
<b>Required Match Amount</b>	\$38,723.25	<b>Grant End Date</b>	1/1/2020
<b>Required Match %</b>	25%	<b>Grant Day To Day Contact</b>	Kate Kubiak

### Budget Summary

	Budgeted	Spent	Balance Remaining
Total Grant Amount	\$154,893.00	\$43,583.58	\$111,309.42
Total Match Amount	\$29,080.00	\$5,300.00	\$23,780.00
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$183,973.00</b>	<b>\$48,883.58</b>	<b>\$135,089.42</b>

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
2011-2012 Miller Creek Kohl's Re-meander Engineering, Construction & Implementation	Technical/Engineering Assistance	Current State Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)	\$7,750.00	\$6,180.00	12/31/2013	N
2011-2012 Miller Creek Kohl's Re-meander Grant Admin	Administration /Coordination	Current State Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)	\$4,647.00	\$4,075.00	12/1/2013	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
2011-2012 Miller Creek Kohl's Re-meander Project Development	Project Development	Current State Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)	\$33,900.00	\$33,328.58	10/1/2013	N
2011-2012 Miller Creek Kohl's Re-meander Project Development	Project Development	Local Fund	2011-2012 Miller Creek Kohl's Re-meander SWCD Match	\$5,080.00	\$3,800.00	12/1/2013	Y
Miller Creek Restoration/Re-meander Behind Kohl's	Special Projects	Current State Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)	\$100,596.00			N
Miller Creek Restoration/Re-meander Behind Kohl's	Special Projects	Local Fund	2011-2012 Miller Creek Kohl's Re-meander SWCD Match	\$24,000.00	\$1,500.00	4/30/2013	Y
Miller Creek Watershed Business Stormwater BMP Installation	Special Projects	Current State Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)	\$8,000.00			N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Size / Unit
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### Indicators Summary

Indicator Name	Total Value	Unit
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## Grant Activity

### Grant Activity - 2011-2012 Miller Creek Kohl's Re-meander Engineering, Construction & Implementation

<b>Description</b>	<p>This component will be completed by TSA Area 3 staff, Keith Anderson, professional engineer (Lic# 42827) and Tim Byrns, Engineering Tech. Keith and Tim have been working for the TSA for the past 5 years on projects similar to this one. Activities under this component will include surveying, modeling, permitting and project design (pre-construction) during 2011, and bidding, site mobilization, and construction supervision during 2012. Keith is well-trained in the Rosgen approach to stream restoration and will be using Rosgen methods for this project. Keith has completed Rosgen Level 1:Applied Fluvial Geomorphology and Level 2:River Morphology and Applications training.</p>	
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE	
<b>Start Date</b>	1-Jul-11	<b>End Date</b>
<b>Rates and Hours</b>		
<b>Actual Results</b>	<p>Aug 15/2011: We have met with City Engineering Staff several times regarding the project and provided them with our preliminary plans. We have also completed a survey of the site and installed flow gauging equipment. We have also researched the title for the site to identify any easement holders that may need to be notified before work begins. We expect to work closely with DNR hydrology staff to complete preliminary design and any modeling that may be required by FEMA before the project may begin. Feb 1/2012: Preliminary engineering activities are being completed including the following: 1.) Surveyed the project reach. 2.) Surveyed the selected reference reach (French River). 3.) Imported survey data into CAD. 4.) Generated topo maps. 5.) In the process of calculating channel design. A design is needed to start applying for permits, start assembling the EAW data and for addressing any FEMA / floodway map issues. Mar 15/2012: the design for the stream restoration and the cross sections are nearly completed. SWCD engineer is working closely with DNR staff on the design. Aug 1/2012: the site plans for the stream restoration are almost finalized and DNR hydrologists believe we have met the threshold for not needing a map revision from FEMA. Feb 1/2013: project site plans are mostly completed. A "no rise certificate" regarding the floodplian issue needs to be completed and submitted to the city with the city building permit/grading and fill application. Feb 1/2014: The archaeology review and survey for Caltha Natans is complete. Project design is complete. Hydrologic modeling is complete. Revised cost estimate is complete.</p>	

**Grant Activity - 2011-2012 Miller Creek Kohl's Re-meander Grant Admin**

<b>Description</b>	This Initiative applies to the administrative component of this grant including keeping track of grant vs. match money, and grant reporting. This component will be completed by the project manager, Kate Kubiak. 3% of the total grant is slated for administration.	
<b>Category</b>	ADMINISTRATION/COORDINATION	
<b>Start Date</b>	1-Mar-11	<b>End Date</b>
<b>Rates and Hours</b>		
<b>Actual Results</b>	<p>Aug 15/2011: Reporting is being completed as required.</p> <p>Feb 1/2012: Reporting is being completed as required. We will be submitting a 2-year extension request to our Board Conservationist.</p> <p>Mar 15/2012: Reporting and budgeting is being completed as required. Still waiting for approval of extension request, submitted January / 2012.</p> <p>Aug 1/2012: Reporting and budgeting is being completed as required. After discussing the need for an extention with the Board Conservationist, the initial request was tabled/formally denied in the hopes of having some additional funds remaining after the 2012 construction season that could be put towards this project. A second extension request will thus be submitted in October, 2012. Our Board Conservationist is aware of and expecting this second request.</p> <p>Feb 1/2013: Reporting and budgeting is being reconciled regularly. An extension has been given to December 31, 2014. See Attachments.</p> <p>Feb 1/2014: Reporting completed as required. Request submitted for an extension to the expiration date of the project and a work plan revision due to unanticipated higher costs of the original project. additional partners and additional knowledge of natural channel design.</p>	

**Grant Activity - 2011-2012 Miller Creek Kohl's Re-meander Project Development**

**Description**

This component of the grant will be conducted primarily during 2011, the planning year. Project Development will involve drafting and finalizing a Memorandum of Understanding with the City of Duluth, the landowner; acquiring all necessary permits from DNR Fisheries for work in the stream, MPCA for construction stormwater, and other permits as required. This component will also involve preparing an Environmental Assessment Worksheet (EAW) for the project, working with the media and community to share information about the project, and working with local businesses to identify a suitable place for a stormwater best management practice (BMP).

**Category**

PROJECT DEVELOPMENT

**Start Date**

1-Jul-11

**End Date**

**Rates and Hours**

**Actual Results**

Aug 15/2011: Preliminary work on the EAW has begun. We are also communicating regularly with City of Duluth. Feb 1/2012: Preliminary work on the EAW has begun as has the data needed for applying for permits. We are also communicating regularly with City Engineering staff and the DNR hydrologist. Mar 15/2012: Engineering plans for the stream restoration work are nearly complete. Letters to SHPO and the NHDB have been sent for the EAW. Aug 1/2012: Much progress has been made on this initiative in the past several months. SWCD project staff met with City planning staff to discuss the project and the EAW. As the RGU, the City will carry out the public comment period. SWCD staff also provided a summary of the project for the City legal department. Received responses from SHPO and the DNR regarding the need for both an archaeological review and a survey for "floating marsh marigold." Arrangements have been made to complete this work this summer. Made an initial request for business BMP participants through the City of Hermantown's Chamber of Commerce e-news. Feb1/2013: Duluth Grill selected for SW BMP. Project design continues. Feb 1/2014: Cost share contract for SW BMP at Duluth Grill has been finalized. Contractor and BMP selection has been finalized. Meetings with MNDOT held to discuss expanding the project upstream through MNDOT ROW. Hydrologic (FEMA-related) modeling completed by DNR hydrologists. Archaeological review and NHDB survey completed - no resources found. Work Plan Revision and extension to grant expiration date request submitted to BC.

**Grant Activity - Miller Creek Restoration/Re-meander Behind Kohl's**

<p><b>Description</b></p>	<p>Restoration of 3,400 ft. of Miller Creek to it's original channel. This section of Miller Creek was channelized many decades ago. Restoring it to its original, sinuous channel will: reduce peak flows due to increased sinuosity; reconnect the stream to its surrounding floodplain, which will lead to increased water storage and increased infiltration, the latter of which will hopefully increase the baseflow of this creek; improve trout habitat with added riffles, pools and woody debris.</p>	
<p><b>Category</b></p>	<p>SPECIAL PROJECTS</p>	
<p><b>Start Date</b></p>	<p>1-Jul-11</p>	<p><b>End Date</b></p>
<p><b>Rates and Hours</b></p>		
<p><b>Actual Results</b></p>	<p>August 15, 2011: SWCD staff has met with the City of Duluth (property owner) and is currently surveying and making preparations to produces a haz-mat model for the creek. Feb 1/2012: Preliminary engineering tasks are underway, see "Initiatives." Mar 15/2012: The design is close to being completed, as are the cross sections, see "Initiatives." SWCD engineer has been working closely with DNR staff to finalize the design. Aug 1/2012: If all goes as planned, phase 1 (digging the new channel) of the restoration is slated for Feb/March of 2013, and phase II (re-routing the water and filling in the old channel) for early June 2013. Feb 1/2013: The flooding of June 2012 pushed back some of our "non-emergency" projects including this one. BWSR granted extensions on this grant in recognition of this. Feb 1/2014: Plans being made to expand project upstream to insure lower restoration area will function as planned. Actual costs much higher than anticipated. Request for extension to expiration date and work plan revision submitted. Design complete. Modeling complete.</p>	

## Grant Activity - Miller Creek Watershed Business Stormwater BMP Installation

<b>Description</b>	Solicitation of businesses interested in installing a stormwater Best Management Practice. The purpose of the Best Management Practice would be to treat (infiltrate) stormwater to reduce runoff in the watershed. Several businesses in the Miller Creek Watershed have already installed a stormwater Best Management Practice with help from our office and we hope that the proposed Best Management Practice will add to the existing sites as demonstration sites for other businesses and tours by people interested in seeing Best Management Practices for stormwater look like when installed.	
<b>Category</b>	SPECIAL PROJECTS	
<b>Start Date</b>	1-Jun-13	<b>End Date</b>
<b>Rates and Hours</b>		
<b>Actual Results</b>	August 15/2011: Work on this element will not begin until 2012. Feb 1/2012: Work on this element will not begin until 2012. Mar 15/2012: One business has been approached with the opportunity to install a BMP, but the majority of this work will not begin until summer of 2012. Aug 1/2012: We mapped out all of the businesses in the Miller Creek watershed and arranged with the City of Hermantown Chamber of Commerce to include a notice in their enews about the funding we have available. We also included information on this opportunity on our website. Feb 1/2013: We met with 3 potential partners this past summer about constructing a BMP on their site: a church, a day care and a restaurant. The restaurant (Duluth Grill) had the most potential and most ability to cost-share in order to create a really good project. We discussed either doing a rain garden (the site is adjacent to Miller Creek) on the property, or creating a rain water harvesting system, which they would use to irrigate their outside gardens. We contacted a local consultant who sells equipment for rainwater and will likely cooperate with him to get the project done. It's a very exciting opportunity for several reasons: 1.) the property-owners are very excited about the idea, 2.) the restaurant (Duluth Grill) is very popular, which will bring a lot of attention to the project, 3.) a local consultant is well-versed in the process and very willing to work with us and the business-owners to develop a great project, and 4.) the property is adjacent to the Creek, Feb 1/2014: Cost share contract has been finalized between contractor, Board and Duluth Grill. Equipment has been selected.	

## Grant Attachments

Document Name	Document Type	Description
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/24/2014
<b>Amendment 2 Request Letter</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Archaeological survey report.pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>C11-96 South St. Louis SWCD.pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Debs_Caltha_Natans_Final_Report_2013</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)

Document Name	Document Type	Description
<b>Inv_201239_from_Duluth_Archaeology_Center_4788 (2).pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice # 4</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice # 5</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice 2 CWF Miller Jan-July 2012.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice 2 CWF Miller Jan-July 2012.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice 3 Kohls Aug-Dec 2012.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice 3 Kohls Aug-Dec 2012.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice 3 Kohls Aug-Dec 2012.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Invoice CWF Miller 2011.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>Kohls scanned arch review required.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>NHDB Invoice.jpg</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>NHDB ltr requiring review.pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>South St Louis Map.pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>archaeological review contract.docx</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>extension approval signed by Board.jpg</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>extension approval signed by Board.jpg</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>grant_app_general-added.rpt</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>grant_app_general.rpt</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>grant_app_general.rpt</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>hermantown chamber enews for SW BMP.pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>hermantown chamber enews for SW BMP.pdf</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)
<b>invoice_NHDB_survey_work_Pomroy</b>	Grant	2011 - Clean Water Assistance - St. Louis, South (SWCD)