

## 2010 - Clean Water Assistance - St. Louis, South (SWCD)

### Fund Report

#### St. Louis, South

#### Fund Information

<u>Fund Name</u>	<u>Fund Year</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
<b>2010 - Clean Water Assistance - St. Louis, South (SWCD)</b>	2010	\$72,690.00	\$72,689.98	12/21/2011
Starting Balance:		\$72,690.00		
Balance Remaining:		\$0.02		
<b>Other funds used with this fund.</b>				
Knife River Sed Reduction Match	2010	\$18,173.00	\$23,343.00	12/20/2011
	Subtotal:	\$18,173.00	\$23,343.00	
	<b>Total:</b>	<b>\$90,863.00</b>	<b>\$96,032.98</b>	

#### Initiatives Summary

*Amount spent by initiative type.*

2010 - Clean Water Assistance - St. Louis, South (SWCD)

	<u>Budgeted</u>	<u>Spent</u>
Admin/Coordination	\$3,600.00	\$3,706.00
Project Development	\$6,000.00	\$6,694.23
Technical and Engineering	\$11,090.00	\$11,100.00
Total:	<b>\$20,690.00</b>	<b>\$21,500.23</b>

#### Land & Water Projects Summary

*Amount spent on L&W Projects.*

	<u>Budgeted</u>	<u>Spent</u>
Total:	<b>\$52,000.00</b>	<b>\$51,189.75</b>

### **BMP Summary**

BMP Name	BMPs entered	BMPs installed*	Linear Ft.	Total Acres	Mapped BMPs
Riparian Forest Buffer - 391	1	1		105.92	1
Stream Channel Stabilization - 584	1	1	333		1
Structure for Water Control - 587	1	1			1
<b>Totals:</b>	<b>3</b>	<b>3</b>			<b>3</b>

*\*Note: BMPs entered in eLINK are considered to be "installed on the ground" if an "actual completion date" has been entered for the project.*

### **Indicator Summary**

*Total pollution reduction estimates for all projects by category.*

	<u>Value</u>	<u>Unit</u>
<b>-Stormwater Management</b>		
Volume Reduced (gal/year)	13,500.00	Gal/Yr
<b>-Water Pollution (Reduction Estimates)</b>		
Soil (est. savings)	184.00	Tons/Yr

**Initiative: 2010 Knife River CWF Grant Administration**

Year: 2010  
Initiative Type: Admin/Coordination

Start Date: 07/01/2010  
Completion Date: 12/22/2011

Description

Knife River Sediment Reduction CWF administration and reporting.

Actual Results

August 1, 2010 report: This task is ongoing. The first semi-annual report has been completed. No expenditures recorded to date.

Feb 1, 2011 report: match time is being tracked by the project mgr, Kate Kubiak. Meeting notes and landowner interest is also being documented. The Feb 1, 2011 progress report was completed in ELink on 1/28/11.

Aug 12, 2011: match time is being tracked by the project mgr, Kate Kubiak. Meeting notes and landowner interest is also being documented. The report due Aug 15th of 2011 has been completed.

Dec 21, 2011: Final reporting and budgeting will be completed as of 12/22/11. BWSR will distribute the final 10% of the grant once the final report is submitted and approved.

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. Knife River Sed Reduction Match	1,000.00	1,830.00	12/20/11
2. 2010 - Clean Water Assistance - St. Louis, South (SWCD)	3,600.00	3,706.00	
<b>Totals:</b>	<b>4,600.00</b>	<b>5,536.00</b>	

List of Attached Files (click to view)

1. [SWCD Invoice CWF Knife 2011 time.docx](#)

Document Description

2011 invoice to SWCD for SWCD/TSA time

Date Added

12/21/11

**Initiative: 2010 Knife River CWF Project Development**

Year: 2010  
Initiative Type: Project Development

Start Date: 07/01/2010  
Completion Date: 11/09/2011

Description

Coordinate with the Knife River Stewardship Committee to select project sites, select BMPs, obtain permits, and review designs. Communicate with landowners, send newsletters or other direct mailings.

Actual Results

8/1/10: One newsletter has been sent to all Knife River landowners. Work on project site selection has begun. 2/1/11: 1) Tree Planting - We held a meeting at the Knife River Rec. Ctr on the evening of October 28, 2010 for KR Land owners in order to solicit participation for the activities outlined in the grant. The meeting was advertised through a post card inviting landowners to attend the meeting or to call for more information. Staff from MN Environmental Partnership assisted with the meeting. MEP has funding to do community organizing in the watershed so this partnership will likely continue. We provided a powerpoint presentation about the available funding and about the TMDL in general and had the TMDL plan and a large format map available for people to look at. We followed up with landowners who expressed interest in participating with site visits, which included further information regarding KR restoration activities. We also provided information on the availability of funding for KR restoration activities on private lands on our website and facebook page. A mailing of about 100 letters was sent out in November to large-acreage riparian landowners explaining our efforts under this grant and seeking participation in riparian tree planting. As of now we have secured permission from 6 private landowners to plant trees on their property and we expect to acquire more. 2) Ditch Checks (Roadside Stormwater Detention) - on October 20, 2010, SWCD and TSA staff met with representatives from St. Louis County to identify possible locations for ditch checks. Exact locations are still being identified but the County staff are willing to cooperate in this effort. 3.) Stormwater BMP Implementation: We have clarified/alterd this task with approval from BWSR. Please see Wittlief Bank Stabilization Project information and attachments in Elink. 12/21/11: Project Development for all three components was completed by October of 2011.

Comments

Match is being provided by landowners and SWCD staff instead of the stewardship committee as originally expected.

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. 2010 - Clean Water Assistance - St. Louis, South (SWCD)	6,000.00	6,694.23	12/20/11
2. Knife River Sed Reduction Match	8,000.00	8,675.00	12/20/11
<b>Totals:</b>	<b>14,000.00</b>	<b>15,369.23</b>	

List of Attached Files (click to view)

	<u>Document Description</u>	<u>Date Added</u>
1. <a href="#">Oct 2010 KR Meeting.jpg</a>	Photo - Knife River October 28, 2010 landowner meeting	12/21/11
2. <a href="#">Knife Watershed Map Comm GIS.JPG</a>	Large Scale Map - KR Watershed	12/21/11
3. <a href="#">Edge of the Knife Summer2010.pdf</a>	Newsletter Edge of the Knife Summer 2010	12/21/11

**Initiative: 2010 Knife River Project Engineering, Construction, and Implementation**

Year: 2010  
Initiative Type: Technical and Engineering

Start Date: 05/01/2011  
Completion Date: 11/11/2011

Description

This initiative will include survey, design, pre-construction work, and construction observation of the ditch checks and bank stabilization project. All associated Land and Water projects will utilize elements of this initiative.

Work for this Initiative will be completed by Area III SWCD Technical Service Area staff assisted by staff from the SWCD. The work will be led by Conservation Engineer Keith Anderson, P.E. Mr. Anderson has more than ten years of experience delivering civil and environmental engineering assistance in our region. SWCD staff assistance will primarily be provided by Kate Kubiak, Conservation Specialist. Kate has worked for over 5 years on stream and watershed management project for the SWCD.

Appropriate design standards will be used for all practices.

Actual Results

August 1, 2010 report: No results yet. No project design has begun.

Feb 1, 2011 report: TSA staff met with St. Louis County staff in the fall of 2010 to discuss construction of ditch checks on the St. Louis County side of the watershed. Locations will be finalized in the spring of 2011. TSA staff has also been doing preliminary planning for a bank stabilization project on a severely eroded bend of the Knife River located in Section 33, T53N R11W, Lake County. This project will be achieved with the cooperation of two private landowners, the DNR, BWSR, and South St. Louis and Lake County SWCDs, along with a private contractor. TSA staff are making preparation for permitting requirements with the expectation that all permitting will be secured in time for work to be conducted in the river during the period allowed by DNR Fisheries (usually June 15 - Sept 15).

12/21/11: The bank stabilization project was completed by September 15th and as of November 1st, the area was recovering (seeding established) nicely. We look forward to inspecting it come spring of 2012. The tree planting project was completed with help from the MN Conservation Corps Duluth Crew by late September. The Ditch Checks were installed over several days during the week of November 9th by staff from St. Louis County. All projects were completed on time and within budget. Completion of all projects also resulted in new and improved relationships between our office and participating KR landowners and between our office and the St. Louis County Foresters and Land Dept. Staff.

FUND(s)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. Knife River Sed Reduction Match	7,173.00	6,814.00	12/20/11
2. 2010 - Clean Water Assistance - St. Louis, South (SWCD)	11,090.00	11,100.00	
<b>Totals:</b>	<b>18,263.00</b>	<b>17,914.00</b>	

List of Attached Files (click to view)

	<u>Document Description</u>	<u>Date Added</u>
1. <a href="#">Wittlief Bank before 1.JPG</a>	Before photo - Wittlief Bank Stabilization project	12/21/11
2. <a href="#">bank after toewood.jpg</a>	Photo - Bank - Toewood installed	12/21/11
3. <a href="#">bank after aerial 3.jpg</a>	After photo - bank - aerial	12/21/11
4. <a href="#">bank after grass 2.jpg</a>	After photo - grass coming up through erosion control mat	12/21/11
5. <a href="#">permit CAD plans.jpg</a>	bank stabilization engineering plan and specs	8/2/12

**Project: CWF Project Knife River Riparian Tree Planting**

Project Number: CWF2010-1  
Primary Cooperator: St. Louis County Forestry - Tim Rutka  
Primary Practice: Forestry Practices

Approval Date: 5/1/2010  
Start Date: 05/17/2010  
Completion Date: 08/12/2011

Description

This project will begin in 2010 with an effort to find suitable planting locations with help from the Knife River Stewardship Committee. Planting will take place in the spring of 2011. Approximately 15,000' of stream is expected to be planted with around 4,000 trees.

Actual Results

8/1/2010: Project selection underway. 2/1/2011: We have secured permission from several private landowners for access to their land for riparian tree planting. We have secured an MCC crew for 2 weeks through funding provided by BWSR to do the work and a local tree supplier. We will plant cedar, tamarack, white spruce and white pine. Trees will be fenced to protect from winter deer browse, and the tamarack and cedar will have mats to reduce competition from other vegetation. We will continue to solicit additional landowners through our website and public events, etc. 12/21/2011: Over the course of about 8 weeks, the Duluth and Moose Lake CCM crews planted about 700 trees at eight private landholdings. Contracts were secured from all landowners and are attached to ELink. We fenced all the white pine, cedar and tamarack to protect from deer browse. Trees were large, potted and were purchased from a local private nursery in the Knife River Watershed. Fencing was purchased from L&M Fleet supply. We also completed a press release about the tree planting and distributed it to local media. We also provided assistance in the form of fencing for the St. Louis County Land Department on a recently harvested site just north of the Village of Knife River. The County purchased its own trees but used fencing provided through this grant to protect them from deer browse as approved by BWSR. 6th graders from the local school district and residents of Knife River helped out with replanting the site. The event was covered by local media and a clip of the news story was placed on the South St Louis SWCD Facebook site. A follow-up bud-capping event coordinated by St. Louis County Foresters using local volunteers took place in October.

Comments

Fewer larger, potted trees were used instead of seedlings with approval from BWSR. Originally, we were going to plant on large tracts of Public land, but other local entities interested in working on the Knife asked us to focus on private lands instead, and save the public land for their activities. As a result, we measured success by number of landowners participating/parcels enhanced (8 private, 1 public) instead of by linear feet, as we did not have large tracts of (public) lands available for our project.

Overall, this project was incredibly successful and great for public relations and education regarding the Knife River TMDL and Knife River turbidity mitigation efforts. New, valuable relationships were forged between our office and 8 private landowners within the Knife River Watershed and with members of the Knife River Rec Council, with whom we will do a rain garden project in the spring of 2012 using a funding arrangement made with the Lake County SWCD (the bank stabilization project was completed on a priority Lake County project using these funds in exchange for using some untapped money held by the Lake SWCD for a rain garden at the Knife River Rec Center, which was ineligible for funding through this grant).

This project also helped enhance the relationship between our office and the St. Louis County Forestry Staff as a result of cooperating and providing funding for a reforestation effort for a harvest that was not popular with the locals. The reforestation effort helped improve public relations between the County and the residents, which has been historically tense.

This project also created a strong relationship between our office and the MN Environmental Partnership as we cooperated on separate but related efforts at increasing public engagement and private landowner buy-in in the Knife River Watershed.

This project would not have succeeded without the assistance of the MN Conservation Corps.

BMP(s)

1. Riparian Forest Buffer-391

*Mapped = Yes*

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
Soil (est. savings)

57.50 Tons/Yr

<u>FUND(s)</u>	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
1. Knife River Sed Reduction Match	2,000.00	6,024.00	12/20/11
2. 2010 - Clean Water Assistance - St. Louis, South (SWCD)	20,000.00	22,826.75	
<b>Totals:</b>	<b>22,000.00</b>	<b>28,850.75</b>	

<u>List of Attached Files (click to view)</u>	<u>Document Description</u>	<u>Date Added</u>
1. <a href="#">KR Tree Planting approve BWSR.pdf</a>		4/15/11
2. <a href="#">Invoice Dave Hmmer.jpg</a>	Trees	8/12/11
3. <a href="#">Invoice Itasca green house.pdf</a>	mats and stakes	8/12/11
4. <a href="#">Invoice L&amp;M.jpg</a>	fencing (w/County)	8/12/11
5. <a href="#">Invoice Menards.jpg</a>	posts, rebar and wire (w/County)	8/12/11
6. <a href="#">Many faces of the Knife.pdf</a>	Press release submitted to local media regarding tree planting efforts.	12/21/11
7. <a href="#">Tree Planting Operations and Maintenance PI</a>	This is the operations & maintence plan provided to all Knife River Tree Planting Landowners	12/7/11

**Project: CWF Project Knife River Roadside Stormwater Retention**

Project Number: CWF2010-2  
 Primary Cooperator: St. Louis County Public Works  
 Primary Practice: Stormwater Practices

Approval Date: 5/1/2010  
 Start Date: 10/01/2011  
 Completion Date: 11/11/2011

Description

Project consists of placing ditch checks to hold back stormwater in ditches in an attempt to reduce peak flows. Labor will be provided by Lake or St. Louis County staff supervised by South St Louis Staff.

Actual Results

8/1/2010: Project selection underway.

Feb 1, 2011 Report: SWCD staff and St. Louis County staff have met and are currently identifying locations for the ditch checks.

As of 8/1/11: SWCD staff and County Engineering staff went out to identify potential ditch check sites and discuss implementation of this component. In late June, SWCD staff went out to survey identified ditch check sites. Additional sites will be surveyed as funds allow. The County will provide materials as match and conduct the work under the supervision of SWCD staff. Grant funds will be used to pay for labor to install the ditch checks. The County has received the plan set and a contract from the SWCD. Work should be completed by the end of November, 2011. 12/21/11: Installation of the ditch checks occurred in mid-November as planned on Shilhon Rd.

BMP(s)

1. Structure for Water Control-587

Mapped = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Stormwater Management  
 Volume Reduced (gal/year) 13,500.00 Gal/Yr

FUND(s)

1. 2010 - Clean Water Assistance - St. Louis, South (SWCD)

	<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
	14,000.00	9,900.00	
<b>Totals:</b>	<b>14,000.00</b>	<b>9,900.00</b>	

List of Attached Files (click to view)

	<u>Document Description</u>	<u>Date Added</u>
1. <a href="#">korkki rd_2011-SHEET1.pdf</a>	Plan sheet for ditch checks	7/29/11
2. <a href="#">korkki rd_2011-SHEET2.pdf</a>	plan sheet for ditch checks	7/29/11
3. <a href="#">korkki rd_2011-SHEET3.pdf</a>	Plan sheet for ditch checks	7/29/11
4. <a href="#">korkki rd_2011-SHEET4.pdf</a>	Plan sheet for ditch checks	7/29/11
5. <a href="#">County contract ditch checks.docx</a>	contact between St. Louis County and the SWCD to provide assistance for the installation of ditch checks	11/18/11
6. <a href="#">county invoice.jpg</a>	invoice from county to SWCD	12/20/11
7. <a href="#">ditches 001.jpg</a>	construction picture shilhon rd ditch	8/2/12



**Project: CWF Project Knife River Bank stabilization**

Project Number: CWF2010-3  
 Primary Cooperator: Debbie Wittlief  
 Primary Practice: Streambank of Shoreland Protection

Approval Date: 5/1/2010  
 Start Date: 11/01/2010  
 Completion Date: 09/16/2011

Description

This project will include stormwater or water quality related work on private property. The project hopes to implement 5 separate projects, but may need to combine funding if larger projects present themselves and are deemed high priority. Types of projects may include: raingardens, infiltration opportunity, streambank stabilization, landscape design, and others.

Actual Results

August 1, 2010: Project selection underway

February 1, 2011: We solicited landowners for stormwater BMPs/Rain gardens but did not find any suitable sites. Therefore, a site has been selected for a bank stabilization project in Lake County with approval from BWSR Board Conservationist. A preliminary engineering plan is being completed along with contracts for the landowners. There are two landowners involved, the property owner and the landowner with access to the site. Both are on board. Please see the attachments. A preliminary meeting between St. Louis County SWCD, Lake County SWCD, the DNR and BWSR has been held in the hopes of speeding up the permitting process so that construction can occur in the summer of 2011.

As of Aug. 1/2011: The site has been surveyed and the contractor has been secured. The permit application is currently in the hands of the DNR. Once permits are approved, construction will begin. Work is expected to be completed by the September 15th DNR trout stream deadline.

December 21, 2011: The bank stabilization project was successfully completed by the September 15th trout stream regulation deadline. An inspection in early November showed grass coming up through the erosion matting and the structure's integrity intact.

BMP(s)

1. Stream Channel Stabilization-584

Mapped = Yes

POLLUTION REDUCTION ESTIMATE(s)

-Water Pollution (Reduction Estimates)  
 Soil (est. savings)

126.50 Tons/Yr

FUND(s)

1. 2010 - Clean Water Assistance - St. Louis, South (SWCD)

<u>Budgeted</u>	<u>Spent</u>	<u>Date Last Spent</u>
18,000.00	18,463.00	
<b>Totals: 18,000.00</b>	<b>18,463.00</b>	

List of Attached Files (click to view)

Document Description

Date Added

1. <a href="#">Knife River Lake Cty Bank Stab Email.pdf</a>	Wittlief Bank Stabilization approval	1/27/11
2. <a href="#">Wittlief Upgard Tech Memo.pdf</a>		1/27/11
3. <a href="#">Wittlief Upgard cost estimate.pdf</a>		1/27/11
4. <a href="#">Bank Stabilization O &amp; M.docx</a>	This is the O & M plan that was sent to the landowners involved with the bank stabilization project	12/9/11
5. <a href="#">Superior_Construction Invoice.pdf</a>	Invoice for contractor to do bank stabilization	10/25/11
6. <a href="#">Wittlief Contract.docx</a>	contract btn landowner and SWCD for bank stabilization	11/18/11
7. <a href="#">permit CAD plans.jpg</a>	Bank Stabilization Plans - CAD	12/21/11
8. <a href="#">after 2012 fld 7.JPG</a>	post flood 2012 photo 2nd inspection	8/2/12

End of 2010 - Clean Water Assistance - St. Louis, South (SWCD) Section

This report can be found in the eLINK Report Manager under Report Type: *Fund Reports, Reports: All Details*